

CRESTONE PEAK RESOURCES

WELD COUNTY

SEC 22-T1N-R68W

COSSLETT EAST 1L-22H-H168

OWB

PROPOSAL 1

Anticollision Report

01 March, 2022

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 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	19,889.26	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	1,355.59	1,317.87	173.29	145.57	6.251	CC
ABND VERT COSSLETT B UNIT 1 - OWB - Design #1	1,400.00	1,359.17	174.06	145.33	6.060	ES
ABND VERT COSSLETT B UNIT 1 - OWB - Design #1	1,500.00	1,451.21	181.93	151.00	5.882	SF
ABND VERT COSSLETT B UNIT 1X - OWB - Design #1	572.75	559.33	272.29	261.67	25.632	CC
ABND VERT COSSLETT B UNIT 1X - OWB - Design #1	800.00	784.47	274.00	258.56	17.743	ES
ABND VERT COSSLETT B UNIT 1X - OWB - Design #1	1,500.00	1,452.21	359.48	329.00	11.793	SF
COSSLETT EAST 1B-22H-H168 - OWB - PROPOSAL 1	300.00	302.00	99.96	98.25	58.461	CC, ES
COSSLETT EAST 1B-22H-H168 - OWB - PROPOSAL 1	19,889.26	18,441.05	3,349.38	3,023.61	10.282	SF
COSSLETT EAST 1C-22H-H168 - OWB - PROPOSAL 1	300.00	302.00	90.16	88.45	52.729	CC, ES
COSSLETT EAST 1C-22H-H168 - OWB - PROPOSAL 1	19,889.26	18,413.25	3,032.83	2,708.95	9.364	SF
COSSLETT EAST 1D-22H-H168 - OWB - PROPOSAL 1	300.00	302.00	80.08	78.37	46.834	CC, ES
COSSLETT EAST 1D-22H-H168 - OWB - PROPOSAL 1	19,889.26	18,447.14	2,690.30	2,368.63	8.364	SF
COSSLETT EAST 1E-22H-H168 - OWB - PROPOSAL 1	300.00	302.00	70.00	68.29	40.939	CC, ES
COSSLETT EAST 1E-22H-H168 - OWB - PROPOSAL 1	19,889.26	18,787.45	2,329.55	2,004.07	7.157	SF
COSSLETT EAST 1F-22H-H168 - OWB - PROPOSAL 1	300.00	302.00	60.20	58.49	35.208	CC, ES
COSSLETT EAST 1F-22H-H168 - OWB - PROPOSAL 1	19,889.26	18,702.69	2,025.67	1,706.33	6.343	SF
COSSLETT EAST 1G-22H-H168 - OWB - PROPOSAL 1	300.00	301.00	50.12	48.42	29.374	CC, ES
COSSLETT EAST 1G-22H-H168 - OWB - PROPOSAL 1	19,889.26	18,934.93	1,695.68	1,373.99	5.271	SF
COSSLETT EAST 1H-22H-H168 - OWB - PROPOSAL 1	300.00	301.00	40.04	38.33	23.466	CC, ES
COSSLETT EAST 1H-22H-H168 - OWB - PROPOSAL 1	19,889.26	19,015.95	1,361.20	1,045.55	4.312	SF
COSSLETT EAST 1I-22H-H168 - OWB - PROPOSAL 1	300.00	301.00	30.24	28.53	17.722	CC, ES
COSSLETT EAST 1I-22H-H168 - OWB - PROPOSAL 1	19,889.26	19,379.25	989.86	664.26	3.040	SF
COSSLETT EAST 1J-22H-H168 - OWB - PROPOSAL 1	300.00	300.00	20.16	18.46	11.840	CC, ES
COSSLETT EAST 1J-22H-H168 - OWB - PROPOSAL 1	19,889.26	19,427.41	684.46	371.08	2.184	SF
COSSLETT EAST 1K-22H-H168 - OWB - PROPOSAL 1	300.00	300.00	10.08	8.38	5.920	CC
COSSLETT EAST 1K-22H-H168 - OWB - PROPOSAL 1	8,800.00	8,845.92	146.17	-26.20	0.848	Level 1, ES, SF
COSSLETT EAST 1M-22H-H168 - OWB - PROPOSAL 1	200.00	200.00	9.80	8.81	9.941	CC, ES
COSSLETT EAST 1M-22H-H168 - OWB - PROPOSAL 1	19,889.26	19,797.37	523.92	226.36	1.761	SF
COSSLETT EAST 1N-22H-H168 - OWB - PROPOSAL 1	100.00	100.00	19.88	19.61	73.957	CC, ES
COSSLETT EAST 1N-22H-H168 - OWB - PROPOSAL 1	19,889.26	20,187.87	723.44	391.82	2.182	SF
COSSLETT EAST FED 1A-22H-H168 - OWB - PROPOSAL 1	300.00	302.00	110.32	108.61	64.520	CC, ES
COSSLETT EAST FED 1A-22H-H168 - OWB - PROPOSAL 1	19,889.26	18,138.54	3,677.22	3,353.73	11.367	SF
EXIST HZ COMO 13N-14HZ - OWB - FINAL SURVEY	7,740.06	16,236.00	2,405.56	2,222.66	13.152	CC
EXIST HZ COMO 13N-14HZ - OWB - FINAL SURVEY	7,800.00	16,236.00	2,406.31	2,221.13	12.995	ES
EXIST HZ COMO 13N-14HZ - OWB - FINAL SURVEY	8,400.00	16,236.00	2,494.44	2,291.79	12.309	SF
EXIST HZ COMO 34N-14HZ - OWB - FINAL SURVEY	7,444.53	16,659.00	2,966.28	2,784.01	16.274	CC
EXIST HZ COMO 34N-14HZ - OWB - FINAL SURVEY	7,500.00	16,659.00	2,966.80	2,782.72	16.117	ES

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

Anticollision Report

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

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
SEC 22-T1N-R68W						
EXIST HZ COMO 34N-14HZ - OWB - FINAL SURVEY	8,300.00	16,659.00	3,087.17	2,882.99	15.120	SF
EXIST HZ COMO13C-14HZ - OWB - FINAL SURVEY	7,651.66	16,530.00	2,871.18	2,689.40	15.795	CC
EXIST HZ COMO13C-14HZ - OWB - FINAL SURVEY	7,700.00	16,530.00	2,871.59	2,688.22	15.660	ES
EXIST HZ COMO13C-14HZ - OWB - FINAL SURVEY	8,400.00	16,530.00	2,967.10	2,765.46	14.715	SF
EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SU	0.00	0.00	1,394.56			
EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SU	100.00	85.42	1,394.67	1,394.40	5,189.748	ES
EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SU	19,889.26	17,550.53	6,717.97	6,385.02	20.177	SF
EXIST HZ COSSLETT 1B-22H-B168 - OWB - FINAL SU	310.37	303.17	1,384.93	1,383.24	822.889	CC, ES
EXIST HZ COSSLETT 1B-22H-B168 - OWB - FINAL SU	19,889.26	17,340.00	6,469.26	6,136.92	19.466	SF
EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SU	286.15	277.15	1,377.74	1,376.31	959.572	CC
EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SU	300.00	290.45	1,377.75	1,376.21	898.740	ES
EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SU	19,889.26	17,471.00	6,371.64	6,038.67	19.136	SF
EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SU	0.00	0.00	1,369.93			
EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SU	300.00	287.68	1,370.25	1,368.92	1,030.527	ES
EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SU	19,889.26	17,385.81	6,013.06	5,684.21	18.285	SF
EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SU	321.67	318.00	1,329.66	1,328.73	1,432.234	CC, ES
EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SU	19,889.26	17,295.00	5,742.34	5,415.96	17.594	SF
EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SU	100.00	90.47	1,353.26	1,352.97	4,827.529	CC
EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SU	300.00	286.36	1,353.49	1,352.06	950.287	ES
EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SU	19,200.00	19,200.00	5,618.30	5,272.20	16.233	SF
EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SU	100.00	89.71	1,345.29	1,345.00	4,742.603	CC
EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SU	300.00	289.07	1,345.38	1,344.04	1,009.870	ES
EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SU	19,889.26	17,487.00	5,498.77	5,166.34	16.541	SF
EXIST HZ COSSLETT 1H-22H-B168 - OWB - FINAL SU	302.49	293.12	1,336.52	1,334.92	832.875	CC, ES
EXIST HZ COSSLETT 1H-22H-B168 - OWB - FINAL SU	19,889.26	17,156.62	5,124.21	4,811.04	16.362	SF
EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SUR	100.00	89.47	1,329.00	1,328.71	4,690.193	CC
EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SUR	300.00	288.30	1,329.16	1,327.83	998.441	ES
EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SUR	19,889.26	17,583.00	4,808.18	4,476.68	14.504	SF
EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SUR	311.12	303.80	1,320.80	1,319.40	946.259	CC, ES
EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SUR	19,889.26	17,576.88	4,598.47	4,269.42	13.975	SF
EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SU	0.00	0.00	1,313.04			
EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SU	100.00	83.21	1,313.24	1,312.97	4,798.402	ES
EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SU	19,700.00	17,390.00	4,432.67	4,117.08	14.046	SF
EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SU	100.00	90.40	1,304.76	1,304.47	4,580.064	CC
EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SU	300.00	289.06	1,304.95	1,303.62	979.366	ES
EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SU	19,889.26	17,809.59	4,257.60	3,924.87	12.796	SF
EXIST HZ COSSLETT 32-22 - OWB - FINAL SURVEY	411.82	407.43	259.96	257.54	107.342	CC, ES
EXIST HZ COSSLETT 32-22 - OWB - FINAL SURVEY	1,100.00	1,029.22	383.73	376.10	50.262	SF
EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY	0.00	0.00	285.98			
EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY	100.00	90.76	286.07	285.78	1,012.433	ES
EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY	1,600.00	1,345.48	745.98	734.61	65.576	SF
EXIST HZ COSSLETT 41-22 - OWB - FINAL SURVEY	0.00	0.00	273.76			
EXIST HZ COSSLETT 41-22 - OWB - FINAL SURVEY	200.00	190.09	274.25	273.34	303.530	ES
EXIST HZ COSSLETT 41-22 - OWB - FINAL SURVEY	2,100.00	2,008.54	618.44	598.17	30.507	SF
EXIST HZ COSSLETT 42-22 - OWB - FINAL SURVEY	1,208.37	1,240.32	187.35	178.72	21.721	CC, ES
EXIST HZ COSSLETT 42-22 - OWB - FINAL SURVEY	1,400.00	1,419.52	202.92	192.63	19.731	SF
EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY	155.26	147.80	280.38	279.81	488.681	CC
EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY	200.00	189.51	280.60	279.70	312.405	ES
EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY	2,800.00	2,463.73	1,236.73	1,208.34	43.561	SF
EXIST HZ COSSLETT 6-4-22 - OWB - FINAL SURVEY	891.31	917.11	231.06	224.69	36.276	CC
EXIST HZ COSSLETT 6-4-22 - OWB - FINAL SURVEY	900.00	925.27	231.09	224.64	35.849	ES
EXIST HZ COSSLETT 6-4-22 - OWB - FINAL SURVEY	1,200.00	1,196.00	274.32	265.16	29.948	SF
EXIST HZ COSSLETT 8-2-22 - OWB - FINAL SURVEY	1,474.17	1,477.32	168.98	156.21	13.238	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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
SEC 22-T1N-R68W						
EXIST HZ COSSLETT 8-2-22 - OWB - FINAL SURVEY	1,500.00	1,502.96	169.04	155.98	12.951	ES
EXIST HZ COSSLETT 8-2-22 - OWB - FINAL SURVEY	1,800.00	1,793.67	185.37	169.28	11.522	SF
EXIST HZ FRONT RANGE FARMS 15C-14HZ - OWB - F	9,503.61	15,342.03	527.29	355.22	3.064	CC
EXIST HZ FRONT RANGE FARMS 15C-14HZ - OWB - F	9,600.00	15,353.00	534.92	348.82	2.874	ES
EXIST HZ FRONT RANGE FARMS 15C-14HZ - OWB - F	9,700.00	15,353.00	559.46	361.61	2.828	SF
EXIST HZ FRONT RANGE FARMS 15N-14HZ - OWB - F	9,593.20	15,243.00	186.92	17.91	1.106	Level 2, CC
EXIST HZ FRONT RANGE FARMS 15N-14HZ - OWB - F	9,650.00	15,243.00	195.94	2.57	1.013	Level 2, ES, SF
EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - F	8,943.89	15,099.07	830.76	662.69	4.943	CC
EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - F	9,000.00	15,086.96	832.57	659.39	4.808	ES
EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - F	9,150.00	15,055.91	854.86	670.86	4.646	SF
EXIST HZ FRONT RANGE FARMS 37C-14HZ - OWB - F	9,822.36	15,352.00	431.21	280.62	2.864	CC
EXIST HZ FRONT RANGE FARMS 37C-14HZ - OWB - F	9,850.00	15,352.00	432.70	280.16	2.837	ES, SF
EXIST HZ RANCHVIEW 28C-11HZ - OWB - FINAL SUR	7,099.93	5,813.45	22.09	-79.41	0.218	Level 1, CC
EXIST HZ RANCHVIEW 28C-11HZ - OWB - FINAL SUR	7,100.00	5,813.49	22.09	-79.43	0.218	Level 1, ES, SF
EXIST HZ RANCHVIEW 3C-11HZ - OWB - FINAL SURV	6,149.69	5,163.92	357.87	267.32	3.952	CC, ES, SF
EXIST HZ RANCHVIEW 3N-11HZ - OWB - FINAL SURV	6,479.06	5,383.48	260.93	167.13	2.782	CC, ES, SF
EXIST HZ STIPANOVICH 8-0-27 - OWB - FINAL SURVE	1,039.63	1,342.46	4,022.27	4,013.39	452.722	CC
EXIST HZ STIPANOVICH 8-0-27 - OWB - FINAL SURVE	1,300.00	1,665.70	4,024.35	4,012.47	338.778	ES
EXIST HZ STIPANOVICH 8-0-27 - OWB - FINAL SURVE	15,900.00	7,979.45	4,201.80	4,082.26	35.148	SF
EXIST HZ STIPANOVICH 8-2-27 - OWB - FINAL SURVE	313.25	305.00	4,036.56	4,034.75	2,234.749	CC
EXIST HZ STIPANOVICH 8-2-27 - OWB - FINAL SURVE	16,400.00	8,040.40	4,117.49	3,979.46	29.830	ES
EXIST HZ STIPANOVICH 8-2-27 - OWB - FINAL SURVE	16,700.00	8,035.98	4,128.68	3,989.93	29.756	SF

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Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 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	3,107.10	2,782.25	2,761.55	2,726.01	77.706	CC
ABND VERT HELEN E UNIT 2 - OWB - FINAL SURVEY	3,200.00	2,857.39	2,762.09	2,725.01	74.499	ES
ABND VERT HELEN E UNIT 2 - OWB - FINAL SURVEY	13,600.00	13,600.00	3,135.40	3,021.85	27.614	SF
EXIST HZ BURY CRANDELL 0-0-23 - OWB - FINAL SU	3,913.62	3,273.85	667.91	617.97	13.375	CC, ES
EXIST HZ BURY CRANDELL 0-0-23 - OWB - FINAL SU	4,100.00	3,407.01	681.10	628.18	12.871	SF
EXIST HZ BURY CRANDELL 12-23 - OWB - FINAL SUR	4,489.37	4,595.91	1,435.86	1,376.30	24.110	CC
EXIST HZ BURY CRANDELL 12-23 - OWB - FINAL SUR	4,500.00	4,604.56	1,435.88	1,376.19	24.058	ES
EXIST HZ BURY CRANDELL 12-23 - OWB - FINAL SUR	5,100.00	4,987.00	1,495.75	1,429.45	22.559	SF
EXIST HZ BURY CRANDELL 21-23 - OWB - FINAL SUR	6,315.77	5,315.71	16.29	-81.09	0.167	Level 1, CC, ES, SF
EXIST HZ BURY CRANDELL 22-23 - OWB - FINAL SUR	4,656.09	3,754.19	904.95	846.97	15.609	CC
EXIST HZ BURY CRANDELL 22-23 - OWB - FINAL SUR	4,700.00	3,784.45	905.42	846.45	15.354	ES
EXIST HZ BURY CRANDELL 22-23 - OWB - FINAL SUR	5,300.00	4,279.57	982.88	910.45	13.569	SF
EXIST HZ BURY CRANDELL 31-23 - OWB - FINAL SUR	8,337.02	6,766.60	511.83	385.75	4.060	CC, ES
EXIST HZ BURY CRANDELL 31-23 - OWB - FINAL SUR	8,400.00	6,812.81	513.54	386.29	4.035	SF
EXIST HZ BURY CRANDELL 42-23 - OWB - FINAL SUR	11,300.00	7,908.57	744.71	636.11	6.857	SF
EXIST HZ BURY CRANDELL 42-23 - OWB - FINAL SUR	11,669.08	7,910.67	646.82	565.36	7.940	CC, ES
EXIST HZ BURY CRANDELL 6-0-23 - OWB - FINAL SU	9,450.00	7,622.75	166.79	35.98	1.275	Level 3, SF
EXIST HZ BURY CRANDELL 6-0-23 - OWB - FINAL SU	9,500.00	7,658.61	154.75	33.52	1.276	Level 3, ES
EXIST HZ BURY CRANDELL 6-0-23 - OWB - FINAL SU	9,602.94	7,727.97	142.44	54.33	1.617	CC
EXIST HZ BURY CRANDELL 8-0-23 - OWB - FINAL SU	9,600.00	7,756.96	1,272.12	1,181.71	14.071	SF
EXIST HZ BURY CRANDELL 8-0-23 - OWB - FINAL SU	9,950.00	7,923.71	1,162.24	1,087.81	15.614	ES
EXIST HZ BURY CRANDELL 8-0-23 - OWB - FINAL SU	9,968.45	7,928.63	1,161.92	1,088.08	15.735	CC
EXIST HZ BURY CRANDELL 8-2-23 - OWB - FINAL SU	10,200.00	7,883.38	1,370.62	1,249.28	11.296	SF
EXIST HZ BURY CRANDELL 8-2-23 - OWB - FINAL SU	10,900.00	7,887.70	1,127.20	1,046.95	14.045	ES
EXIST HZ BURY CRANDELL 8-2-23 - OWB - FINAL SU	10,984.32	7,888.22	1,124.05	1,047.35	14.657	CC
EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SU	12,294.75	8,104.50	1,090.47	997.95	11.786	CC
EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SU	12,300.00	8,104.57	1,090.48	997.90	11.779	ES
EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SU	12,900.00	8,110.86	1,247.16	1,127.66	10.436	SF
EXIST HZ CURY CRANDELL 32-23 - OWB - FINAL SUR	11,717.74	7,998.25	884.87	801.97	10.673	CC, ES
EXIST HZ CURY CRANDELL 32-23 - OWB - FINAL SUR	12,200.00	8,000.19	1,007.76	897.97	9.179	SF
EXIST HZ HELEN 0-4-23 - OWB - FINAL SURVEY	3,654.20	3,875.08	2,034.37	1,985.92	41.993	CC
EXIST HZ HELEN 0-4-23 - OWB - FINAL SURVEY	3,700.00	3,905.21	2,034.67	1,985.48	41.363	ES
EXIST HZ HELEN 0-4-23 - OWB - FINAL SURVEY	4,800.00	4,578.17	2,219.72	2,156.52	35.124	SF
EXIST HZ HELEN 14-23 - OWB - FINAL SURVEY	1,887.46	1,394.41	2,820.60	2,805.66	188.831	CC
EXIST HZ HELEN 14-23 - OWB - FINAL SURVEY	2,000.00	1,433.00	2,821.71	2,805.46	173.742	ES
EXIST HZ HELEN 14-23 - OWB - FINAL SURVEY	15,000.00	7,992.99	3,333.23	3,220.69	29.619	SF
EXIST HZ HELEN 4-6-23 - OWB - FINAL SURVEY	13,600.00	7,929.70	1,424.88	1,326.92	14.545	SF
EXIST HZ HELEN 4-6-23 - OWB - FINAL SURVEY	13,700.00	7,926.92	1,421.27	1,323.69	14.566	ES
EXIST HZ HELEN 4-6-23 - OWB - FINAL SURVEY	13,701.44	7,926.88	1,421.27	1,323.69	14.566	CC
EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY	14,918.60	8,115.73	1,081.71	967.07	9.436	CC
EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY	15,000.00	8,112.95	1,084.76	965.31	9.081	ES
EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY	15,400.00	8,101.49	1,183.90	1,039.74	8.212	SF
EXIST VERT BURY CRANDELL C UNIT 1 - OWB - Desi	10,600.00	7,782.00	236.02	18.96	1.087	Level 2, ES, SF
EXIST VERT BURY CRANDELL C UNIT 1 - OWB - Desi	10,712.41	7,782.00	207.54	24.22	1.132	Level 2, CC
EXIST VERT HELEN 23-23 - OWB - Design #1	12,931.53	7,813.00	2,233.32	2,039.76	11.538	CC, ES
EXIST VERT HELEN 23-23 - OWB - Design #1	13,200.00	7,813.00	2,249.39	2,053.68	11.493	SF
EXIST VERT HELEN 33-23 - OWB - Design #1	12,923.37	7,834.00	942.45	748.62	4.862	CC, ES, SF
EXIST VERT HELEN 34-23 - OWB - Design #1	14,500.00	7,825.00	658.13	442.97	3.059	ES, SF
EXIST VERT HELEN 34-23 - OWB - Design #1	14,543.45	7,825.00	656.70	443.23	3.076	CC
EXIST VERT HELEN 43-23 - OWB - Design #1	13,063.33	7,817.00	673.77	478.80	3.456	CC
EXIST VERT HELEN 43-23 - OWB - Design #1	13,100.00	7,817.00	674.77	478.54	3.439	ES
EXIST VERT HELEN 43-23 - OWB - Design #1	13,200.00	7,817.00	687.49	485.68	3.407	SF
EXIST VERT HELEN E UNIT 1 - OWB - Design #1	13,991.13	7,823.00	180.05	-25.96	0.874	Level 1, 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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 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						
EXIST VERT HELEN E UNIT 1 - OWB - Design #1	14,000.00	7,823.00	180.27	-27.29	0.869	Level 1, ES, SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 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	15,729.45	5,050.00	3,480.31	3,358.88	28.661	CC, ES
ABND VERT ALAUX 1 - OWB - Design #1	17,300.00	5,050.00	3,818.27	3,678.43	27.305	SF
ABND VERT ALAUX 2 - OWB - Design #1	15,734.01	5,450.00	4,154.12	4,001.34	27.190	CC, ES
ABND VERT ALAUX 2 - OWB - Design #1	16,600.00	5,450.00	4,243.42	4,085.04	26.793	SF
ABND VERT ALAUX F UNIT 1 - OWB - FINAL SURVEY	15,994.05	7,800.00	3,157.07	3,030.79	25.001	CC
ABND VERT ALAUX F UNIT 1 - OWB - FINAL SURVEY	16,000.00	7,800.00	3,157.08	3,030.79	24.999	ES
ABND VERT ALAUX F UNIT 1 - OWB - FINAL SURVEY	16,100.00	7,800.00	3,158.85	3,032.44	24.989	SF
ABND VERT CRANDELL E UNIT 1 - OWB - Design #1	18,675.60	7,888.00	3,059.22	2,779.86	10.951	CC, ES, SF
ABND VERT GOLTL 1 - OWB - Design #1	18,346.85	5,042.00	2,843.54	2,717.72	22.600	CC
ABND VERT GOLTL 1 - OWB - Design #1	18,400.00	5,042.00	2,844.04	2,717.26	22.433	ES
ABND VERT GOLTL 1 - OWB - Design #1	19,889.26	5,042.00	3,234.93	3,062.78	18.792	SF
ABND VERT GOLTL 2 - OWB - Design #1	19,665.57	5,020.00	2,863.56	2,727.24	21.006	CC
ABND VERT GOLTL 2 - OWB - Design #1	19,700.00	5,020.00	2,863.77	2,726.83	20.912	ES
ABND VERT GOLTL 2 - OWB - Design #1	19,889.26	5,020.00	2,872.29	2,731.15	20.352	SF
ABND VERT JL SEARS 1 - OWB - Design #1	17,062.23	5,125.00	4,349.66	4,188.08	26.919	CC
ABND VERT JL SEARS 1 - OWB - Design #1	17,100.00	5,125.00	4,349.83	4,188.08	26.892	ES
ABND VERT JL SEARS 1 - OWB - Design #1	17,700.00	5,125.00	4,396.17	4,231.41	26.683	SF
ABND VERT JL SEARS 2 - OWB - Design #1	17,029.24	5,148.00	3,398.74	3,259.63	24.432	CC, ES
ABND VERT JL SEARS 2 - OWB - Design #1	17,800.00	5,148.00	3,485.04	3,341.12	24.216	SF
ABND VERT MANN 1 - OWB - Design #1	18,330.02	5,050.00	2,909.47	2,789.66	24.285	CC, ES
ABND VERT MANN 1 - OWB - Design #1	19,889.26	5,050.00	3,300.94	3,150.64	21.962	SF
ABND VERT MANN 2 - OWB - Design #1	19,670.27	5,048.00	2,904.83	2,773.16	22.061	CC
ABND VERT MANN 2 - OWB - Design #1	19,700.00	5,048.00	2,904.99	2,773.15	22.036	ES
ABND VERT MANN 2 - OWB - Design #1	19,889.26	5,048.00	2,913.08	2,779.65	21.833	SF
EXIST HZ ALAUX 4-0-26 - OWB - FINAL SURVEY	14,900.00	7,988.99	1,606.22	1,488.69	13.666	SF
EXIST HZ ALAUX 4-0-26 - OWB - FINAL SURVEY	15,130.30	7,990.19	1,589.63	1,474.17	13.768	CC, ES
EXIST HZ CRANDELL 0-6-26 - OWB - FINAL SURVEY	18,934.58	8,091.30	3,948.53	3,772.22	22.395	CC, ES
EXIST HZ CRANDELL 0-6-26 - OWB - FINAL SURVEY	19,100.00	8,091.18	3,951.99	3,775.21	22.355	SF
EXIST HZ CRANDELL 0-8-26 - OWB - FINAL SURVEY	19,889.26	8,310.35	4,051.42	3,844.50	19.580	CC, ES, SF
EXIST HZ CRANDELL 14-26 - OWB - FINAL SURVEY	19,835.79	8,103.29	3,539.28	3,342.03	17.944	CC, ES
EXIST HZ CRANDELL 14-26 - OWB - FINAL SURVEY	19,889.26	8,102.79	3,539.68	3,342.36	17.939	SF
EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY	18,100.00	8,049.13	2,100.70	1,933.78	12.585	SF
EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY	18,293.26	8,046.60	2,091.79	1,926.20	12.632	CC, ES
EXIST HZ CRANDELL 24-26 - OWB - FINAL SURVEY	19,400.00	8,180.03	1,977.94	1,782.93	10.143	SF
EXIST HZ CRANDELL 24-26 - OWB - FINAL SURVEY	19,581.47	8,182.17	1,969.60	1,777.13	10.233	CC, ES
EXIST HZ CRANDELL 2-8-26 - OWB - FINAL SURVEY	19,889.26	8,401.54	2,780.59	2,568.23	13.094	CC, ES, SF
EXIST HZ CRANDELL 4-6-26 - OWB - FINAL SURVEY	18,700.00	8,222.03	1,518.19	1,334.10	8.247	SF
EXIST HZ CRANDELL 4-6-26 - OWB - FINAL SURVEY	18,900.00	8,218.26	1,497.49	1,317.34	8.312	ES
EXIST HZ CRANDELL 4-6-26 - OWB - FINAL SURVEY	18,956.12	8,217.18	1,496.44	1,317.65	8.370	CC
EXIST HZ SEARS 0-4-26 - OWB - FINAL SURVEY	17,573.63	8,156.00	3,962.10	3,805.77	25.345	CC
EXIST HZ SEARS 0-4-26 - OWB - FINAL SURVEY	17,600.00	8,157.75	3,962.19	3,805.75	25.327	ES
EXIST HZ SEARS 0-4-26 - OWB - FINAL SURVEY	17,800.00	8,149.11	3,968.56	3,811.49	25.266	SF
EXIST HZ SEARS 2-4-26 - OWB - FINAL SURVEY	17,400.00	8,079.18	2,756.03	2,599.78	17.639	SF
EXIST HZ SEARS 2-4-26 - OWB - FINAL SURVEY	17,553.27	8,075.15	2,751.77	2,596.12	17.679	CC, ES
EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY	17,400.00	7,930.15	1,553.70	1,395.21	9.803	SF
EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY	17,600.00	7,926.72	1,540.38	1,385.19	9.926	ES
EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY	17,603.10	7,926.67	1,540.37	1,385.24	9.930	CC
EXIST VERT ALAUX 26-5 - OWB - FINAL SURVEY	16,774.51	7,931.54	3,439.90	3,300.08	24.603	CC, ES
EXIST VERT ALAUX 26-5 - OWB - FINAL SURVEY	16,900.00	7,930.54	3,442.19	3,302.19	24.587	SF
EXIST VERT ROBERTS 2 - OWB - Design #1	17,100.99	7,843.00	507.91	255.18	2.010	CC
EXIST VERT ROBERTS 2 - OWB - Design #1	17,200.00	7,843.00	517.47	254.20	1.966	ES, SF
EXIST VERT SHANNON ROBERTS 26-5 - OWB - Desig	16,300.00	7,824.00	268.34	27.02	1.112	Level 2, ES, SF
EXIST VERT SHANNON ROBERTS 26-5 - OWB - Desig	16,309.61	7,824.00	268.17	28.36	1.118	Level 2, 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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
SEC 26-T1N-R68W						
SI VERT ALAUX 26-3 - OWB - Design #1	15,500.00	7,849.00	2,092.62	1,863.22	9.122	SF
SI VERT ALAUX 26-3 - OWB - Design #1	15,580.15	7,849.00	2,091.09	1,862.08	9.131	CC, ES
SI VERT CRANDELL E UNIT 2 - OWB - Design #1	19,350.89	7,846.00	190.79	-99.11	0.658	Level 1, CC
SI VERT CRANDELL E UNIT 2 - OWB - Design #1	19,400.00	7,846.00	197.00	-104.80	0.653	Level 1, ES, SF
SI VERT SEARS 22-26 - OWB - Design #1	16,800.00	7,849.00	1,918.13	1,667.04	7.639	SF
SI VERT SEARS 22-26 - OWB - Design #1	16,900.00	7,849.00	1,914.31	1,664.12	7.651	ES
SI VERT SEARS 22-26 - OWB - Design #1	16,923.04	7,849.00	1,914.18	1,664.21	7.658	CC
SI VERT SHANNON-ROBERTS 2 - OWB - Design #1	17,042.70	5,425.00	2,459.96	2,340.06	20.517	CC
SI VERT SHANNON-ROBERTS 2 - OWB - Design #1	17,100.00	5,425.00	2,460.63	2,339.59	20.330	ES
SI VERT SHANNON-ROBERTS 2 - OWB - Design #1	18,600.00	5,425.00	2,911.46	2,736.72	16.662	SF
SI VERT SHANNON-ROBERTS 3 - OWB - Design #1	15,725.04	5,450.00	2,521.79	2,418.92	24.514	CC, ES
SI VERT SHANNON-ROBERTS 3 - OWB - Design #1	17,400.00	5,450.00	3,027.36	2,879.19	20.432	SF
SI VERT SHANNON-ROBERTS 4 - OWB - Design #1	17,047.40	5,450.00	2,521.23	2,406.81	22.036	CC, ES
SI VERT SHANNON-ROBERTS 4 - OWB - Design #1	18,600.00	5,450.00	2,960.94	2,809.85	19.598	SF
SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Desi	15,720.35	5,400.00	2,460.89	2,351.95	22.589	CC
SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Desi	15,800.00	5,400.00	2,462.18	2,351.69	22.285	ES
SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Desi	17,400.00	5,400.00	2,979.46	2,809.98	17.580	SF

Offset Design SEC 22-T1N-R68W - ABND VERT COSSLETT B UNIT 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	26.12	232.42	113.96	259.23					
100.00	100.00	86.00	86.00	0.13	0.68	26.12	232.42	113.96	258.85	258.03	0.82	316.687		
200.00	200.00	186.00	186.00	0.49	2.30	26.12	232.42	113.96	258.85	256.06	2.79	92.845		
300.00	300.00	286.00	286.00	0.85	4.04	26.12	232.42	113.96	258.85	253.96	4.89	52.915		
400.00	399.98	385.98	385.98	1.21	5.79	-42.30	232.42	113.96	257.56	250.57	6.99	36.839		
500.00	499.84	485.84	485.84	1.56	7.53	-43.15	232.42	113.96	253.71	244.62	9.09	27.904		
600.00	599.45	585.45	585.45	1.93	9.27	-44.62	232.42	113.96	247.42	236.22	11.20	22.097		
700.00	698.70	684.70	684.70	2.32	11.00	-46.79	232.42	113.96	238.87	225.56	13.31	17.951		
800.00	797.47	783.47	783.47	2.72	12.72	-49.79	232.42	113.96	228.39	212.96	15.43	14.806		
900.00	895.62	881.62	881.62	3.16	14.44	-53.80	232.42	113.96	216.44	198.89	17.56	12.327		
1,000.00	993.06	979.06	979.06	3.63	16.14	-59.03	232.42	113.96	203.76	184.05	19.72	10.334		
1,100.00	1,089.64	1,075.64	1,075.64	4.14	17.82	-65.72	232.42	113.96	191.42	169.50	21.91	8.735		
1,200.00	1,185.27	1,171.27	1,171.27	4.70	19.49	-74.05	232.42	113.96	180.95	156.79	24.16	7.489		
1,300.00	1,279.82	1,265.82	1,265.82	5.31	21.14	-83.96	232.42	113.96	174.39	147.94	26.44	6.594		
1,355.59	1,331.87	1,317.87	1,317.87	5.67	22.05	-90.00	232.42	113.96	173.29	145.57	27.72	6.251	CC	
1,400.00	1,373.17	1,359.17	1,359.17	5.97	22.77	-94.99	232.42	113.96	174.06	145.33	28.72	6.060	ES	
1,500.00	1,465.21	1,451.21	1,451.21	6.69	24.38	-106.28	232.42	113.96	181.93	151.00	30.93	5.882	SF	
1,600.00	1,555.84	1,541.84	1,541.84	7.47	25.96	-116.86	232.42	113.96	198.91	165.90	33.01	6.026		
1,700.00	1,644.94	1,630.94	1,630.94	8.31	27.51	-126.09	232.42	113.96	224.70	189.74	34.97	6.426		
1,800.00	1,732.39	1,718.39	1,718.39	9.23	29.04	-133.75	232.42	113.96	258.28	221.45	36.83	7.012		
1,900.00	1,818.11	1,804.11	1,804.11	10.21	30.54	-139.94	232.42	113.96	298.48	259.83	38.65	7.723		
2,000.00	1,901.97	1,887.97	1,887.97	11.26	32.00	-144.91	232.42	113.96	344.28	303.85	40.43	8.516		
2,100.00	1,983.88	1,969.88	1,969.88	12.38	33.43	-148.88	232.42	113.96	394.89	352.72	42.18	9.363		
2,200.00	2,063.74	2,049.74	2,049.74	13.57	34.82	-152.08	232.42	113.96	449.74	405.84	43.90	10.244		
2,300.00	2,141.45	2,127.45	2,127.45	14.84	36.18	-154.67	232.42	113.96	508.39	462.80	45.60	11.150		
2,327.78	2,162.65	2,148.65	2,148.65	15.21	36.55	-155.30	232.42	113.96	525.32	479.25	46.07	11.404		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
2,400.00	2,217.51	2,203.51	2,203.51	16.17	37.51	-157.21	232.42	113.96	569.85	522.58	47.27	12.055		
2,500.00	2,293.49	2,279.49	2,279.49	17.51	38.83	-159.43	232.42	113.96	632.10	583.15	48.95	12.914		
2,600.00	2,369.47	2,355.47	2,355.47	18.86	40.16	-161.28	232.42	113.96	694.86	644.23	50.63	13.724		
2,700.00	2,445.45	2,431.45	2,431.45	20.22	41.49	-162.82	232.42	113.96	757.99	705.67	52.32	14.487		
2,800.00	2,521.42	2,507.42	2,507.42	21.59	42.81	-164.14	232.42	113.96	821.43	767.40	54.02	15.205		
2,900.00	2,597.40	2,583.40	2,583.40	22.97	44.14	-165.28	232.42	113.96	885.09	829.36	55.73	15.882		
3,000.00	2,673.38	2,659.38	2,659.38	24.34	45.46	-166.26	232.42	113.96	948.93	891.49	57.44	16.520		
3,100.00	2,749.36	2,735.36	2,735.36	25.73	46.79	-167.13	232.42	113.96	1,012.93	953.77	59.16	17.122		
3,200.00	2,825.33	2,811.33	2,811.33	27.11	48.12	-167.89	232.42	113.96	1,077.05	1,016.17	60.88	17.691		
3,300.00	2,901.31	2,887.31	2,887.31	28.50	49.44	-168.57	232.42	113.96	1,141.27	1,078.66	62.61	18.229		
3,400.00	2,977.29	2,963.29	2,963.29	29.90	50.77	-169.18	232.42	113.96	1,205.57	1,141.24	64.34	18.739		
3,500.00	3,053.27	3,039.27	3,039.27	31.29	52.09	-169.72	232.42	113.96	1,269.95	1,203.88	66.07	19.222		
3,600.00	3,129.24	3,115.24	3,115.24	32.69	53.42	-170.22	232.42	113.96	1,334.39	1,266.58	67.80	19.680		
3,700.00	3,205.22	3,208.78	3,191.22	34.08	55.05	-170.67	232.42	113.96	1,398.88	1,329.03	69.85	20.027		
3,800.00	3,281.20	3,267.20	3,267.20	35.48	56.07	-171.08	232.42	113.96	1,463.42	1,392.14	71.28	20.529		
3,900.00	3,357.18	3,343.18	3,343.18	36.88	57.40	-171.46	232.42	113.96	1,528.00	1,454.97	73.03	20.923		
4,000.00	3,433.15	3,419.15	3,419.15	38.29	58.72	-171.80	232.42	113.96	1,592.62	1,517.85	74.77	21.299		
4,100.00	3,509.13	3,504.87	3,495.13	39.69	60.22	-172.12	232.42	113.96	1,657.27	1,580.58	76.69	21.609		
4,200.00	3,585.11	3,571.11	3,571.11	41.09	61.38	-172.42	232.42	113.96	1,721.94	1,643.67	78.27	21.999		
4,300.00	3,661.08	3,647.08	3,647.08	42.50	62.70	-172.69	232.42	113.96	1,786.64	1,706.62	80.02	22.326		
4,400.00	3,737.06	3,723.06	3,723.06	43.90	64.03	-172.95	232.42	113.96	1,851.37	1,769.59	81.78	22.639		
4,500.00	3,813.04	3,800.96	3,799.04	45.31	65.39	-173.18	232.42	113.96	1,916.11	1,832.55	83.56	22.930		
4,600.00	3,889.02	3,875.02	3,875.02	46.71	66.68	-173.41	232.42	113.96	1,980.87	1,895.58	85.29	23.226		
4,700.00	3,964.99	3,950.99	3,950.99	48.12	68.01	-173.62	232.42	113.96	2,045.65	1,958.60	87.04	23.501		
4,800.00	4,040.97	4,026.97	4,026.97	49.53	69.33	-173.81	232.42	113.96	2,110.44	2,021.64	88.80	23.765		
4,900.00	4,116.95	4,102.95	4,102.95	50.94	70.66	-174.00	232.42	113.96	2,175.25	2,084.68	90.56	24.019		
5,000.00	4,192.93	4,178.93	4,178.93	52.35	71.98	-174.17	232.42	113.96	2,240.06	2,147.74	92.32	24.263		
5,100.00	4,268.90	4,254.90	4,254.90	53.76	73.31	-174.33	232.42	113.96	2,304.89	2,210.81	94.09	24.498		
5,200.00	4,344.88	4,330.88	4,330.88	55.16	74.64	-174.49	232.42	113.96	2,369.73	2,273.89	95.85	24.724		
5,300.00	4,420.86	4,406.86	4,406.86	56.57	75.96	-174.63	232.42	113.96	2,434.58	2,336.97	97.61	24.942		
5,400.00	4,496.84	4,482.84	4,482.84	57.98	77.29	-174.77	232.42	113.96	2,499.44	2,400.07	99.38	25.151		
5,500.00	4,572.81	4,553.00	4,553.00	59.39	78.51	-174.90	232.42	113.96	2,564.31	2,463.30	101.01	25.387		
5,600.00	4,648.79	4,553.00	4,553.00	60.81	78.51	-174.90	232.42	113.96	2,630.45	2,529.45	101.01	26.042		
5,700.00	4,724.77	4,553.00	4,553.00	62.22	78.51	-174.90	232.42	113.96	2,698.68	2,597.74	100.93	26.737		
5,800.00	4,800.74	4,553.00	4,553.00	63.63	78.51	-174.90	232.42	113.96	2,768.83	2,668.03	100.80	27.468		
5,900.00	4,876.72	4,553.00	4,553.00	65.04	78.51	-174.90	232.42	113.96	2,840.78	2,740.16	100.62	28.232		
6,000.00	4,952.70	4,553.00	4,553.00	66.45	78.51	-174.90	232.42	113.96	2,914.38	2,813.98	100.40	29.028		
6,100.00	5,028.68	4,553.00	4,553.00	67.86	78.51	-174.90	232.42	113.96	2,989.51	2,889.36	100.15	29.851		
6,200.00	5,104.65	4,553.00	4,553.00	69.27	78.51	-174.90	232.42	113.96	3,066.06	2,966.20	99.87	30.701		
6,300.00	5,180.63	4,553.00	4,553.00	70.69	78.51	-174.90	232.42	113.96	3,143.94	3,044.37	99.57	31.576		
6,400.00	5,256.61	4,553.00	4,553.00	72.10	78.51	-174.90	232.42	113.96	3,223.03	3,123.77	99.25	32.473		
6,500.00	5,332.59	4,553.00	4,553.00	73.51	78.51	-174.90	232.42	113.96	3,303.25	3,204.33	98.93	33.391		
6,600.00	5,408.56	4,553.00	4,553.00	74.92	78.51	-174.90	232.42	113.96	3,384.53	3,285.94	98.59	34.328		
6,700.00	5,484.54	4,553.00	4,553.00	76.34	78.51	-174.90	232.42	113.96	3,466.79	3,368.54	98.26	35.283		
6,800.00	5,560.52	4,553.00	4,553.00	77.75	78.51	-174.90	232.42	113.96	3,549.96	3,452.04	97.92	36.255		
6,900.00	5,636.50	4,553.00	4,553.00	79.16	78.51	-174.90	232.42	113.96	3,633.98	3,536.40	97.58	37.242		
7,000.00	5,712.47	4,553.00	4,553.00	80.57	78.51	-174.90	232.42	113.96	3,718.79	3,621.55	97.24	38.243		
7,100.00	5,788.45	4,553.00	4,553.00	81.99	78.51	-174.90	232.42	113.96	3,804.33	3,707.43	96.91	39.257		
7,200.00	5,864.43	4,553.00	4,553.00	83.40	78.51	-174.90	232.42	113.96	3,890.57	3,793.99	96.58	40.283		
7,300.00	5,940.40	4,553.00	4,553.00	84.81	78.51	-174.90	232.42	113.96	3,977.45	3,881.19	96.26	41.320		
7,400.00	6,016.38	4,553.00	4,553.00	86.23	78.51	-174.90	232.42	113.96	4,064.93	3,968.99	95.95	42.367		
7,500.00	6,092.36	4,553.00	4,553.00	87.64	78.51	-174.90	232.42	113.96	4,152.98	4,057.34	95.64	43.423		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - ABND VERT COSSLETT B UNIT 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
7,600.00	6,168.34	4,553.00	4,553.00	89.05	78.51	-174.90	232.42	113.96	4,241.56	4,146.22	95.34	44.487		
7,700.00	6,244.31	4,553.00	4,553.00	90.47	78.51	-174.90	232.42	113.96	4,330.64	4,235.58	95.06	45.558		
7,800.00	6,320.29	4,553.00	4,553.00	91.88	78.51	-174.90	232.42	113.96	4,420.18	4,325.40	94.78	46.637		
7,900.00	6,396.27	4,553.00	4,553.00	93.30	78.51	-174.90	232.42	113.96	4,510.16	4,415.65	94.51	47.721		
8,000.00	6,472.25	4,553.00	4,553.00	94.71	78.51	-174.90	232.42	113.96	4,600.56	4,506.31	94.25	48.811		
8,100.00	6,548.22	4,553.00	4,553.00	96.12	78.51	-174.90	232.42	113.96	4,691.35	4,597.34	94.01	49.905		
8,200.00	6,624.20	4,553.00	4,553.00	97.54	78.51	-174.90	232.42	113.96	4,782.50	4,688.73	93.77	51.004		
8,300.00	6,700.18	4,553.00	4,553.00	98.95	78.51	-174.90	232.42	113.96	4,874.00	4,780.46	93.54	52.106		
8,400.00	6,776.16	4,553.00	4,553.00	100.37	78.51	-174.90	232.42	113.96	4,965.83	4,872.50	93.32	53.211		
8,500.00	6,852.13	4,553.00	4,553.00	101.78	78.51	-174.90	232.42	113.96	5,057.97	4,964.85	93.12	54.318		
8,600.00	6,928.11	4,553.00	4,553.00	103.20	78.51	-174.90	232.42	113.96	5,150.40	5,057.48	92.92	55.427		
8,700.00	7,004.09	4,553.00	4,553.00	104.61	78.51	-174.90	232.42	113.96	5,243.11	5,150.37	92.74	56.538		
8,800.00	7,080.06	4,553.00	4,553.00	106.02	78.51	-174.90	232.42	113.96	5,336.08	5,243.52	92.56	57.650		
8,900.00	7,156.04	4,553.00	4,553.00	107.44	78.51	-174.90	232.42	113.96	5,429.30	5,336.91	92.40	58.762		
9,000.00	7,232.02	4,553.00	4,553.00	108.85	78.51	-174.90	232.42	113.96	5,522.76	5,430.52	92.24	59.874		
9,104.68	7,311.55	4,553.00	4,553.00	110.33	78.51	-174.90	232.42	113.96	5,620.84	5,528.75	92.09	61.038		
9,150.00	7,346.29	4,553.00	4,553.00	110.97	78.51	168.53	232.42	113.96	5,663.20	5,571.18	92.02	61.543		
9,200.00	7,385.15	4,553.00	4,553.00	111.65	78.51	151.86	232.42	113.96	5,709.38	5,617.44	91.94	62.102		
9,250.00	7,424.29	4,553.00	4,553.00	112.31	78.51	137.19	232.42	113.96	5,754.65	5,662.81	91.84	62.660		
9,300.00	7,463.40	4,553.00	4,553.00	112.93	78.51	124.41	232.42	113.96	5,798.70	5,706.97	91.73	63.214		
9,350.00	7,502.19	4,553.00	4,553.00	113.51	78.51	113.31	232.42	113.96	5,841.22	5,749.61	91.61	63.762		
9,400.00	7,540.36	4,553.00	4,553.00	114.04	78.51	103.68	232.42	113.96	5,881.92	5,790.44	91.48	64.301		
9,450.00	7,577.62	4,553.00	4,553.00	114.53	78.51	95.37	232.42	113.96	5,920.53	5,829.21	91.33	64.827		
9,500.00	7,613.70	4,553.00	4,553.00	114.95	78.51	88.22	232.42	113.96	5,956.81	5,865.64	91.17	65.338		
9,550.00	7,648.30	4,553.00	4,553.00	115.32	78.51	82.11	232.42	113.96	5,990.52	5,899.52	91.00	65.830		
9,600.00	7,681.18	4,553.00	4,553.00	115.63	78.51	76.92	232.42	113.96	6,021.45	5,930.63	90.82	66.299		
9,650.00	7,712.08	4,553.00	4,553.00	115.88	78.51	72.52	232.42	113.96	6,049.42	5,958.77	90.64	66.739		
9,700.00	7,740.76	4,553.00	4,553.00	116.08	78.51	68.82	232.42	113.96	6,074.24	5,983.78	90.46	67.148		
9,750.00	7,767.01	4,553.00	4,553.00	116.23	78.51	65.74	232.42	113.96	6,095.77	6,005.48	90.28	67.518		
9,800.00	7,790.63	4,553.00	4,553.00	116.33	78.51	63.19	232.42	113.96	6,113.88	6,023.77	90.11	67.846		
9,850.00	7,811.44	4,553.00	4,553.00	116.38	78.51	61.13	232.42	113.96	6,128.47	6,038.51	89.96	68.126		
9,900.00	7,829.28	4,553.00	4,553.00	116.38	78.51	59.50	232.42	113.96	6,139.44	6,049.62	89.82	68.353		
9,950.00	7,844.01	4,553.00	4,553.00	116.35	78.51	58.26	232.42	113.96	6,146.74	6,057.04	89.71	68.521		
10,000.00	7,855.52	4,553.00	4,553.00	116.28	78.51	57.40	232.42	113.96	6,150.33	6,060.71	89.62	68.627		
10,050.00	7,863.72	4,553.00	4,553.00	116.18	78.51	56.88	232.42	113.96	6,150.17	6,060.61	89.57	68.666		
10,100.00	7,868.56	4,553.00	4,553.00	116.06	78.51	56.69	232.42	113.96	6,146.28	6,056.73	89.55	68.635		
10,145.94	7,870.00	4,553.00	4,553.00	115.92	78.51	56.82	232.42	113.96	6,139.43	6,049.86	89.57	68.543		
10,200.00	7,870.00	4,553.00	4,553.00	115.76	78.51	56.82	232.42	113.96	6,129.76	6,040.14	89.63	68.391		
10,300.00	7,870.00	4,553.00	4,553.00	115.46	78.51	56.82	232.42	113.96	6,113.10	6,023.29	89.81	68.064		
10,400.00	7,870.00	4,553.00	4,553.00	115.18	78.51	56.82	232.42	113.96	6,098.04	6,007.94	90.10	67.679		
10,500.00	7,870.00	4,553.00	4,553.00	114.91	78.51	56.82	232.42	113.96	6,084.58	5,994.09	90.49	67.241		
10,600.00	7,870.00	4,553.00	4,553.00	114.65	78.51	56.82	232.42	113.96	6,072.74	5,981.77	90.97	66.755		
10,700.00	7,870.00	4,553.00	4,553.00	114.41	78.51	56.82	232.42	113.96	6,062.52	5,970.98	91.54	66.227		
10,800.00	7,870.00	4,553.00	4,553.00	114.17	78.51	56.82	232.42	113.96	6,053.94	5,961.75	92.20	65.663		
10,900.00	7,870.00	4,553.00	4,553.00	113.95	78.51	56.82	232.42	113.96	6,047.01	5,954.08	92.93	65.071		
11,000.00	7,870.00	4,553.00	4,553.00	113.75	78.51	56.82	232.42	113.96	6,041.72	5,947.98	93.73	64.457		
11,100.00	7,870.00	4,553.00	4,553.00	113.55	78.51	56.82	232.42	113.96	6,038.08	5,943.48	94.60	63.826		
11,200.00	7,870.00	4,553.00	4,553.00	113.37	78.51	56.82	232.42	113.96	6,036.09	5,940.56	95.53	63.186		
11,269.79	7,870.00	4,553.00	4,553.00	113.24	78.51	56.82	232.42	113.96	6,035.69	5,939.47	96.22	62.731		
11,300.00	7,870.00	4,553.00	4,553.00	113.20	78.51	56.82	232.42	113.96	6,035.76	5,939.26	96.51	62.542		
11,400.00	7,870.00	4,553.00	4,553.00	113.04	78.51	56.82	232.42	113.96	6,037.09	5,939.56	97.53	61.897		
11,500.00	7,870.00	4,553.00	4,553.00	112.89	78.51	56.82	232.42	113.96	6,040.08	5,941.48	98.60	61.257		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
11,600.00	7,870.00	4,553.00	4,553.00	112.76	78.51	56.82	232.42	113.96	6,044.71	5,945.01	99.71	60.625		
11,700.00	7,870.00	4,553.00	4,553.00	112.64	78.51	56.82	232.42	113.96	6,051.00	5,950.16	100.84	60.005		
11,800.00	7,870.00	4,553.00	4,553.00	112.53	78.51	56.82	232.42	113.96	6,058.93	5,956.93	102.00	59.399		
11,900.00	7,870.00	4,553.00	4,553.00	112.44	78.51	56.82	232.42	113.96	6,068.50	5,965.31	103.19	58.809		
12,000.00	7,870.00	4,553.00	4,553.00	112.36	78.51	56.82	232.42	113.96	6,079.70	5,975.30	104.39	58.238		
12,100.00	7,870.00	4,553.00	4,553.00	112.29	78.51	56.82	232.42	113.96	6,092.52	5,986.90	105.61	57.686		
12,200.00	7,870.00	4,553.00	4,553.00	112.24	78.51	56.82	232.42	113.96	6,106.95	6,000.10	106.85	57.156		
12,300.00	7,870.00	4,553.00	4,553.00	112.20	78.51	56.82	232.42	113.96	6,122.98	6,014.89	108.09	56.647		
12,400.00	7,870.00	4,553.00	4,553.00	112.17	78.51	56.82	232.42	113.96	6,140.60	6,031.26	109.34	56.161		
12,500.00	7,870.00	4,553.00	4,553.00	112.16	78.51	56.82	232.42	113.96	6,159.78	6,049.19	110.59	55.699		
12,600.00	7,870.00	4,553.00	4,553.00	112.17	78.51	56.82	232.42	113.96	6,180.53	6,068.69	111.85	55.260		
12,700.00	7,870.00	4,553.00	4,553.00	112.19	78.51	56.82	232.42	113.96	6,202.82	6,089.73	113.10	54.844		
12,800.00	7,870.00	4,553.00	4,553.00	112.23	78.51	56.82	232.42	113.96	6,226.64	6,112.29	114.35	54.452		
12,900.00	7,870.00	4,553.00	4,553.00	112.28	78.51	56.82	232.42	113.96	6,251.97	6,136.37	115.60	54.084		
13,000.00	7,870.00	4,553.00	4,553.00	112.36	78.51	56.82	232.42	113.96	6,278.79	6,161.95	116.84	53.740		
13,100.00	7,870.00	4,553.00	4,553.00	112.45	78.51	56.82	232.42	113.96	6,307.08	6,189.01	118.07	53.419		
13,200.00	7,870.00	4,553.00	4,553.00	112.56	78.51	56.82	232.42	113.96	6,336.82	6,217.52	119.29	53.120		
13,300.00	7,870.00	4,553.00	4,553.00	112.68	78.51	56.82	232.42	113.96	6,367.99	6,247.48	120.50	52.845		
13,400.00	7,870.00	4,553.00	4,553.00	112.83	78.51	56.82	232.42	113.96	6,400.57	6,278.87	121.70	52.591		
13,500.00	7,870.00	4,553.00	4,553.00	113.00	78.51	56.82	232.42	113.96	6,434.54	6,311.65	122.89	52.360		
13,600.00	7,870.00	4,553.00	4,553.00	113.19	78.51	56.82	232.42	113.96	6,469.88	6,345.82	124.06	52.149		
13,700.00	7,870.00	4,553.00	4,553.00	113.40	78.51	56.82	232.42	113.96	6,506.57	6,381.35	125.22	51.960		
13,800.00	7,870.00	4,553.00	4,553.00	113.63	78.51	56.82	232.42	113.96	6,544.58	6,418.21	126.37	51.791		
13,900.00	7,870.00	4,553.00	4,553.00	113.89	78.51	56.82	232.42	113.96	6,583.88	6,456.39	127.49	51.641		
14,000.00	7,870.00	4,553.00	4,553.00	114.18	78.51	56.82	232.42	113.96	6,624.47	6,495.87	128.60	51.511		
14,100.00	7,870.00	4,553.00	4,553.00	114.48	78.51	56.82	232.42	113.96	6,666.30	6,536.61	129.69	51.400		
14,200.00	7,870.00	4,553.00	4,553.00	114.82	78.51	56.82	232.42	113.96	6,709.37	6,578.60	130.77	51.308		
14,300.00	7,870.00	4,553.00	4,553.00	115.18	78.51	56.82	232.42	113.96	6,753.64	6,621.82	131.82	51.233		
14,400.00	7,870.00	4,553.00	4,553.00	115.57	78.51	56.82	232.42	113.96	6,799.10	6,666.24	132.86	51.175		
14,500.00	7,870.00	4,553.00	4,553.00	115.99	78.51	56.82	232.42	113.96	6,845.71	6,711.84	133.88	51.134		
14,600.00	7,870.00	4,553.00	4,553.00	116.44	78.51	56.82	232.42	113.96	6,893.46	6,758.59	134.88	51.110		
14,700.00	7,870.00	4,553.00	4,553.00	116.92	78.51	56.82	232.42	113.96	6,942.32	6,806.47	135.85	51.101		
14,800.00	7,870.00	4,553.00	4,553.00	117.44	78.51	56.82	232.42	113.96	6,992.27	6,855.46	136.81	51.108		
14,900.00	7,870.00	4,553.00	4,553.00	117.98	78.51	56.82	232.42	113.96	7,043.29	6,905.54	137.75	51.130		
15,000.00	7,870.00	4,553.00	4,553.00	118.56	78.51	56.82	232.42	113.96	7,095.35	6,956.68	138.67	51.166		
15,100.00	7,870.00	4,553.00	4,553.00	119.17	78.51	56.82	232.42	113.96	7,148.43	7,008.85	139.57	51.216		
15,200.00	7,870.00	4,553.00	4,553.00	119.81	78.51	56.82	232.42	113.96	7,202.50	7,062.05	140.46	51.279		
15,300.00	7,870.00	4,553.00	4,553.00	120.48	78.51	56.82	232.42	113.96	7,257.56	7,116.24	141.32	51.356		
15,400.00	7,870.00	4,553.00	4,553.00	121.19	78.51	56.82	232.42	113.96	7,313.56	7,171.40	142.16	51.445		
15,500.00	7,870.00	4,553.00	4,553.00	121.93	78.51	56.82	232.42	113.96	7,370.49	7,227.51	142.99	51.547		
15,600.00	7,870.00	4,553.00	4,553.00	122.71	78.51	56.82	232.42	113.96	7,428.34	7,284.55	143.79	51.661		
15,700.00	7,870.00	4,553.00	4,553.00	123.52	78.51	56.82	232.42	113.96	7,487.07	7,342.50	144.58	51.786		
15,800.00	7,870.00	4,553.00	4,553.00	124.36	78.51	56.82	232.42	113.96	7,546.68	7,401.33	145.35	51.922		
15,900.00	7,870.00	4,553.00	4,553.00	125.23	78.51	56.82	232.42	113.96	7,607.13	7,461.03	146.10	52.069		
16,000.00	7,870.00	4,553.00	4,553.00	126.14	78.51	56.82	232.42	113.96	7,668.40	7,521.57	146.83	52.227		
16,100.00	7,870.00	4,553.00	4,553.00	127.07	78.51	56.82	232.42	113.96	7,730.49	7,582.94	147.54	52.394		
16,200.00	7,870.00	4,553.00	4,553.00	128.04	78.51	56.82	232.42	113.96	7,793.36	7,645.12	148.24	52.572		
16,300.00	7,870.00	4,553.00	4,553.00	129.04	78.51	56.82	232.42	113.96	7,857.00	7,708.08	148.92	52.759		
16,400.00	7,870.00	4,553.00	4,553.00	130.06	78.51	56.82	232.42	113.96	7,921.40	7,771.81	149.59	52.955		
16,500.00	7,870.00	4,553.00	4,553.00	131.11	78.51	56.82	232.42	113.96	7,986.53	7,836.29	150.23	53.161		
16,600.00	7,870.00	4,553.00	4,553.00	132.19	78.51	56.82	232.42	113.96	8,052.37	7,901.50	150.87	53.374		
16,700.00	7,870.00	4,553.00	4,553.00	133.29	78.51	56.82	232.42	113.96	8,118.91	7,967.43	151.48	53.597		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
16,800.00	7,870.00	4,553.00	4,553.00	134.42	78.51	56.82	232.42	113.96	8,186.13	8,034.05	152.08	53.827		
16,900.00	7,870.00	4,553.00	4,553.00	135.57	78.51	56.82	232.42	113.96	8,254.02	8,101.35	152.67	54.065		
17,000.00	7,870.00	4,553.00	4,553.00	136.75	78.51	56.82	232.42	113.96	8,322.55	8,169.31	153.24	54.311		
17,100.00	7,870.00	4,553.00	4,553.00	137.94	78.51	56.82	232.42	113.96	8,391.71	8,237.92	153.80	54.564		
17,200.00	7,870.00	4,553.00	4,553.00	139.16	78.51	56.82	232.42	113.96	8,461.49	8,307.16	154.34	54.824		
17,300.00	7,870.00	4,553.00	4,553.00	140.39	78.51	56.82	232.42	113.96	8,531.88	8,377.01	154.87	55.091		
17,400.00	7,870.00	4,553.00	4,553.00	141.65	78.51	56.82	232.42	113.96	8,602.85	8,447.46	155.38	55.365		
17,500.00	7,870.00	4,553.00	4,553.00	142.92	78.51	56.82	232.42	113.96	8,674.39	8,518.50	155.89	55.645		
17,600.00	7,870.00	4,553.00	4,553.00	144.21	78.51	56.82	232.42	113.96	8,746.49	8,590.11	156.38	55.932		
17,700.00	7,870.00	4,553.00	4,553.00	145.52	78.51	56.82	232.42	113.96	8,819.13	8,662.28	156.86	56.224		
17,800.00	7,870.00	4,553.00	4,553.00	146.84	78.51	56.82	232.42	113.96	8,892.31	8,734.99	157.32	56.523		
17,900.00	7,870.00	4,553.00	4,553.00	148.18	78.51	56.82	232.42	113.96	8,966.00	8,808.22	157.78	56.827		
18,000.00	7,870.00	4,553.00	4,553.00	149.54	78.51	56.82	232.42	113.96	9,040.20	8,881.98	158.22	57.137		
18,100.00	7,870.00	4,553.00	4,553.00	150.90	78.51	56.82	232.42	113.96	9,114.89	8,956.24	158.65	57.452		
18,200.00	7,870.00	4,553.00	4,553.00	152.28	78.51	56.82	232.42	113.96	9,190.07	9,030.99	159.07	57.773		
18,300.00	7,870.00	4,553.00	4,553.00	153.67	78.51	56.82	232.42	113.96	9,265.71	9,106.22	159.48	58.098		
18,400.00	7,870.00	4,553.00	4,553.00	155.07	78.51	56.82	232.42	113.96	9,341.81	9,181.93	159.88	58.429		
18,500.00	7,870.00	4,553.00	4,553.00	156.49	78.51	56.82	232.42	113.96	9,418.36	9,258.08	160.27	58.764		
18,600.00	7,870.00	4,553.00	4,553.00	157.91	78.51	56.82	232.42	113.96	9,495.34	9,334.68	160.65	59.104		
18,700.00	7,870.00	4,553.00	4,553.00	159.35	78.51	56.82	232.42	113.96	9,572.75	9,411.72	161.03	59.448		
18,800.00	7,870.00	4,553.00	4,553.00	160.79	78.51	56.82	232.42	113.96	9,650.57	9,489.18	161.39	59.797		
18,900.00	7,870.00	4,553.00	4,553.00	162.25	78.51	56.82	232.42	113.96	9,728.80	9,567.06	161.74	60.150		
19,000.00	7,870.00	4,553.00	4,553.00	163.71	78.51	56.82	232.42	113.96	9,807.43	9,645.34	162.09	60.507		
19,100.00	7,870.00	4,553.00	4,553.00	165.18	78.51	56.82	232.42	113.96	9,886.44	9,724.01	162.42	60.868		
19,200.00	7,870.00	4,553.00	4,553.00	166.66	78.51	56.82	232.42	113.96	9,965.83	9,803.07	162.75	61.233		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	-19.13	257.55	-89.32	272.91					
100.00	100.00	87.00	87.00	0.13	0.68	-19.13	257.55	-89.32	272.60	271.79	0.81	336.489		
200.00	200.00	187.00	187.00	0.49	2.30	-19.13	257.55	-89.32	272.60	269.81	2.79	97.776		
300.00	300.00	287.00	287.00	0.85	4.04	-19.13	257.55	-89.32	272.60	267.71	4.89	55.726		
400.00	399.98	386.98	386.98	1.21	5.79	-87.64	257.55	-89.32	272.52	265.53	6.99	38.982		
500.00	499.84	486.84	486.84	1.56	7.53	-88.74	257.55	-89.32	272.36	263.27	9.09	29.962		
572.75	572.33	559.33	559.33	1.83	8.79	-90.00	257.55	-89.32	272.29	261.67	10.62	25.632 CC		
600.00	599.45	586.45	586.45	1.93	9.27	-90.57	257.55	-89.32	272.31	261.11	11.20	24.321		
700.00	698.70	685.70	685.70	2.32	11.00	-93.10	257.55	-89.32	272.70	259.39	13.31	20.484		
800.00	797.47	784.47	784.47	2.72	12.72	-96.30	257.55	-89.32	274.00	258.56	15.44	17.743 ES		
900.00	895.62	882.62	882.62	3.16	14.44	-100.11	257.55	-89.32	276.78	259.19	17.59	15.738		
1,000.00	993.06	980.06	980.06	3.63	16.14	-104.41	257.55	-89.32	281.68	261.94	19.74	14.266		
1,100.00	1,089.64	1,076.64	1,076.64	4.14	17.82	-109.08	257.55	-89.32	289.39	267.48	21.91	13.207		
1,200.00	1,185.27	1,172.27	1,172.27	4.70	19.49	-113.96	257.55	-89.32	300.55	276.47	24.08	12.481		
1,300.00	1,279.82	1,266.82	1,266.82	5.31	21.14	-118.87	257.55	-89.32	315.72	289.48	26.24	12.032		
1,400.00	1,373.17	1,360.17	1,360.17	5.97	22.77	-123.67	257.55	-89.32	335.28	306.91	28.38	11.816		
1,500.00	1,465.21	1,452.21	1,452.21	6.69	24.38	-128.22	257.55	-89.32	359.48	329.00	30.48	11.793 SF		
1,600.00	1,555.84	1,542.84	1,542.84	7.47	25.96	-132.43	257.55	-89.32	388.39	355.84	32.55	11.932		
1,700.00	1,644.94	1,631.94	1,631.94	8.31	27.51	-136.27	257.55	-89.32	421.97	387.39	34.58	12.204		
1,800.00	1,732.39	1,719.39	1,719.39	9.23	29.04	-139.71	257.55	-89.32	460.07	423.51	36.56	12.584		
1,900.00	1,818.11	1,805.11	1,805.11	10.21	30.54	-142.76	257.55	-89.32	502.51	464.01	38.50	13.052		
2,000.00	1,901.97	1,888.97	1,888.97	11.26	32.00	-145.44	257.55	-89.32	549.07	508.68	40.40	13.592		
2,100.00	1,983.88	1,970.88	1,970.88	12.38	33.43	-147.78	257.55	-89.32	599.55	557.30	42.25	14.191		
2,200.00	2,063.74	2,050.74	2,050.74	13.57	34.82	-149.83	257.55	-89.32	653.74	609.68	44.06	14.838		
2,300.00	2,141.45	2,128.45	2,128.45	14.84	36.18	-151.60	257.55	-89.32	711.43	665.61	45.82	15.525		
2,327.78	2,162.65	2,149.65	2,149.65	15.21	36.55	-152.04	257.55	-89.32	728.06	681.75	46.31	15.722		
2,400.00	2,217.51	2,204.51	2,204.51	16.17	37.51	-153.61	257.55	-89.32	771.80	724.25	47.55	16.230		
2,500.00	2,293.49	2,280.49	2,280.49	17.51	38.83	-155.52	257.55	-89.32	832.96	783.69	49.27	16.906		
2,600.00	2,369.47	2,356.47	2,356.47	18.86	40.16	-157.19	257.55	-89.32	894.66	843.67	50.99	17.547		
2,700.00	2,445.45	2,432.45	2,432.45	20.22	41.49	-158.66	257.55	-89.32	956.80	904.09	52.70	18.154		
2,800.00	2,521.42	2,508.42	2,508.42	21.59	42.81	-159.95	257.55	-89.32	1,019.29	964.87	54.42	18.730		
2,900.00	2,597.40	2,584.40	2,584.40	22.97	44.14	-161.11	257.55	-89.32	1,082.09	1,025.95	56.14	19.275		
3,000.00	2,673.38	2,660.38	2,660.38	24.34	45.46	-162.14	257.55	-89.32	1,145.13	1,087.27	57.86	19.791		
3,100.00	2,749.36	2,736.36	2,736.36	25.73	46.79	-163.07	257.55	-89.32	1,208.39	1,148.80	59.58	20.281		
3,200.00	2,825.33	2,812.33	2,812.33	27.11	48.12	-163.91	257.55	-89.32	1,271.82	1,210.51	61.31	20.745		
3,300.00	2,901.31	2,888.31	2,888.31	28.50	49.44	-164.67	257.55	-89.32	1,335.40	1,272.37	63.03	21.185		
3,400.00	2,977.29	2,964.29	2,964.29	29.90	50.77	-165.36	257.55	-89.32	1,399.12	1,334.35	64.76	21.604		
3,500.00	3,053.27	3,040.27	3,040.27	31.29	52.09	-166.00	257.55	-89.32	1,462.95	1,396.45	66.49	22.001		
3,600.00	3,129.24	3,116.24	3,116.24	32.69	53.42	-166.58	257.55	-89.32	1,526.88	1,458.65	68.23	22.380		
3,700.00	3,205.22	3,207.78	3,192.22	34.08	55.02	-167.12	257.55	-89.32	1,590.90	1,520.66	70.23	22.652		
3,800.00	3,281.20	3,268.20	3,268.20	35.48	56.07	-167.62	257.55	-89.32	1,654.99	1,583.30	71.70	23.083		
3,900.00	3,357.18	3,344.18	3,344.18	36.88	57.40	-168.08	257.55	-89.32	1,719.16	1,645.72	73.44	23.410		
4,000.00	3,433.15	3,420.15	3,420.15	38.29	58.72	-168.51	257.55	-89.32	1,783.39	1,708.21	75.18	23.722		
4,100.00	3,509.13	3,503.87	3,496.13	39.69	60.19	-168.90	257.55	-89.32	1,847.67	1,770.62	77.05	23.979		
4,200.00	3,585.11	3,572.11	3,572.11	41.09	61.38	-169.28	257.55	-89.32	1,912.00	1,833.34	78.66	24.306		
4,300.00	3,661.08	3,648.08	3,648.08	42.50	62.70	-169.63	257.55	-89.32	1,976.38	1,895.97	80.41	24.579		
4,400.00	3,737.06	3,724.06	3,724.06	43.90	64.03	-169.95	257.55	-89.32	2,040.80	1,958.64	82.16	24.840		
4,500.00	3,813.04	3,800.04	3,800.04	45.31	65.35	-170.26	257.55	-89.32	2,105.25	2,021.35	83.91	25.091		
4,600.00	3,889.02	3,876.02	3,876.02	46.71	66.68	-170.55	257.55	-89.32	2,169.74	2,084.09	85.66	25.331		
4,700.00	3,964.99	3,951.99	3,951.99	48.12	68.01	-170.82	257.55	-89.32	2,234.26	2,146.86	87.41	25.562		
4,800.00	4,040.97	4,027.97	4,027.97	49.53	69.33	-171.08	257.55	-89.32	2,298.81	2,209.65	89.16	25.783		
4,900.00	4,116.95	4,103.95	4,103.95	50.94	70.66	-171.32	257.55	-89.32	2,363.38	2,272.47	90.91	25.996		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - ABND VERT COSSLETT B UNIT 1X - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,192.93	4,179.93	4,179.93	52.35	71.98	-171.55	257.55	-89.32	2,427.98	2,335.31	92.67	26.201		
5,100.00	4,268.90	4,255.90	4,255.90	53.76	73.31	-171.77	257.55	-89.32	2,492.60	2,398.18	94.42	26.398		
5,200.00	4,344.88	4,331.88	4,331.88	55.16	74.64	-171.98	257.55	-89.32	2,557.24	2,461.06	96.18	26.588		
5,300.00	4,420.86	4,407.86	4,407.86	56.57	75.96	-172.17	257.55	-89.32	2,621.90	2,523.96	97.94	26.770		
5,400.00	4,496.84	4,483.84	4,483.84	57.98	77.29	-172.36	257.55	-89.32	2,686.58	2,586.88	99.70	26.947		
5,500.00	4,572.81	4,559.81	4,559.81	59.39	78.62	-172.54	257.55	-89.32	2,751.27	2,649.81	101.46	27.117		
5,600.00	4,648.79	4,635.79	4,635.79	60.81	79.94	-172.71	257.55	-89.32	2,815.97	2,712.75	103.22	27.281		
5,700.00	4,724.77	4,711.77	4,711.77	62.22	81.27	-172.88	257.55	-89.32	2,880.69	2,775.71	104.98	27.440		
5,800.00	4,800.74	4,787.74	4,787.74	63.63	82.59	-173.03	257.55	-89.32	2,945.43	2,838.68	106.75	27.593		
5,900.00	4,876.72	4,863.72	4,863.72	65.04	83.92	-173.18	257.55	-89.32	3,010.18	2,901.67	108.51	27.741		
6,000.00	4,952.70	4,939.70	4,939.70	66.45	85.25	-173.33	257.55	-89.32	3,074.93	2,964.66	110.27	27.884		
6,100.00	5,028.68	5,015.68	5,015.68	67.86	86.57	-173.46	257.55	-89.32	3,139.70	3,027.66	112.04	28.023		
6,200.00	5,104.65	5,108.35	5,091.65	69.27	88.19	-173.60	257.55	-89.32	3,204.48	3,090.38	114.10	28.085		
6,300.00	5,180.63	5,167.63	5,167.63	70.69	89.22	-173.72	257.55	-89.32	3,269.27	3,153.70	115.57	28.287		
6,400.00	5,256.61	5,243.61	5,243.61	72.10	90.55	-173.84	257.55	-89.32	3,334.07	3,216.72	117.34	28.413		
6,500.00	5,332.59	5,319.59	5,319.59	73.51	91.88	-173.96	257.55	-89.32	3,398.87	3,279.76	119.11	28.536		
6,600.00	5,408.56	5,404.44	5,395.56	74.92	93.36	-174.07	257.55	-89.32	3,463.69	3,342.65	121.03	28.617		
6,700.00	5,484.54	5,471.54	5,471.54	76.34	94.53	-174.18	257.55	-89.32	3,528.51	3,405.86	122.65	28.769		
6,800.00	5,560.52	5,547.52	5,547.52	77.75	95.85	-174.29	257.55	-89.32	3,593.34	3,468.92	124.42	28.881		
6,900.00	5,636.50	5,623.50	5,623.50	79.16	97.18	-174.39	257.55	-89.32	3,658.17	3,531.98	126.19	28.989		
7,000.00	5,712.47	5,700.53	5,699.47	80.57	98.52	-174.49	257.55	-89.32	3,723.01	3,595.03	127.98	29.090		
7,100.00	5,788.45	5,775.45	5,775.45	81.99	99.83	-174.58	257.55	-89.32	3,787.86	3,658.12	129.74	29.197		
7,200.00	5,864.43	5,851.43	5,851.43	83.40	101.16	-174.67	257.55	-89.32	3,852.71	3,721.20	131.51	29.296		
7,300.00	5,940.40	5,927.40	5,927.40	84.81	102.48	-174.76	257.55	-89.32	3,917.57	3,784.29	133.28	29.393		
7,400.00	6,016.38	6,003.38	6,003.38	86.23	103.81	-174.85	257.55	-89.32	3,982.44	3,847.38	135.06	29.487		
7,500.00	6,092.36	6,079.36	6,079.36	87.64	105.14	-174.93	257.55	-89.32	4,047.31	3,910.47	136.83	29.579		
7,600.00	6,168.34	6,155.34	6,155.34	89.05	106.46	-175.01	257.55	-89.32	4,112.18	3,973.57	138.61	29.668		
7,700.00	6,244.31	6,231.31	6,231.31	90.47	107.79	-175.09	257.55	-89.32	4,177.06	4,036.67	140.38	29.754		
7,800.00	6,320.29	6,307.29	6,307.29	91.88	109.11	-175.16	257.55	-89.32	4,241.94	4,099.78	142.16	29.839		
7,900.00	6,396.27	6,383.27	6,383.27	93.30	110.44	-175.23	257.55	-89.32	4,306.83	4,162.89	143.94	29.921		
8,000.00	6,472.25	6,459.25	6,459.25	94.71	111.77	-175.30	257.55	-89.32	4,371.72	4,226.00	145.72	30.002		
8,100.00	6,548.22	6,535.22	6,535.22	96.12	113.09	-175.37	257.55	-89.32	4,436.61	4,289.12	147.50	30.080		
8,200.00	6,624.20	6,611.20	6,611.20	97.54	114.42	-175.44	257.55	-89.32	4,501.51	4,352.24	149.27	30.156		
8,300.00	6,700.18	6,687.18	6,687.18	98.95	115.74	-175.50	257.55	-89.32	4,566.41	4,415.36	151.05	30.230		
8,400.00	6,776.16	6,763.16	6,763.16	100.37	117.07	-175.57	257.55	-89.32	4,631.32	4,478.48	152.83	30.303		
8,500.00	6,852.13	6,839.13	6,839.13	101.78	118.40	-175.63	257.55	-89.32	4,696.22	4,541.61	154.61	30.374		
8,600.00	6,928.11	6,915.11	6,915.11	103.20	119.72	-175.69	257.55	-89.32	4,761.13	4,604.74	156.40	30.443		
8,700.00	7,004.09	7,008.91	6,991.09	104.61	121.36	-175.75	257.55	-89.32	4,826.05	4,667.56	158.49	30.450		
8,800.00	7,080.06	7,067.06	7,067.06	106.02	122.37	-175.80	257.55	-89.32	4,890.97	4,731.01	159.96	30.576		
8,900.00	7,156.04	7,143.04	7,143.04	107.44	123.70	-175.86	257.55	-89.32	4,955.88	4,794.14	161.74	30.641		
9,000.00	7,232.02	7,219.02	7,219.02	108.85	125.03	-175.91	257.55	-89.32	5,020.81	4,857.28	163.53	30.703		
9,104.68	7,311.55	7,301.45	7,298.55	110.33	126.47	-175.97	257.55	-89.32	5,088.77	4,923.33	165.44	30.758		
9,150.00	7,346.29	7,333.29	7,333.29	110.97	127.02	-175.14	257.55	-89.32	5,117.85	4,951.65	166.21	30.792		
9,200.00	7,385.15	7,372.15	7,372.15	111.65	127.70	-175.32	257.55	-89.32	5,149.01	4,981.90	167.11	30.812		
9,250.00	7,424.29	7,411.29	7,411.29	112.31	128.38	-175.69	257.55	-89.32	5,178.97	5,010.96	168.01	30.825		
9,300.00	7,463.40	7,450.40	7,450.40	112.93	129.07	-175.44	257.55	-89.32	5,207.53	5,038.62	168.91	30.831		
9,350.00	7,502.19	7,489.19	7,489.19	113.51	129.74	-175.75	257.55	-89.32	5,234.49	5,064.71	169.79	30.830		
9,400.00	7,540.36	7,527.36	7,527.36	114.04	130.41	-175.78	257.55	-89.32	5,259.70	5,089.05	170.64	30.822		
9,450.00	7,577.62	7,564.62	7,564.62	114.53	131.06	-175.60	257.55	-89.32	5,282.98	5,111.51	171.47	30.809		
9,500.00	7,613.70	7,600.70	7,600.70	114.95	131.69	-175.24	257.55	-89.32	5,304.23	5,131.97	172.27	30.790		
9,550.00	7,648.30	7,635.30	7,635.30	115.32	132.29	-175.71	257.55	-89.32	5,323.34	5,150.31	173.03	30.766		
9,600.00	7,681.18	7,668.18	7,668.18	115.63	132.87	-175.95	257.55	-89.32	5,340.20	5,166.46	173.74	30.737		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - ABND VERT COSSLETT B UNIT 1X - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,650.00	7,712.08	7,700.92	7,699.08	115.88	133.44	101.91	257.55	-89.32	5,354.74	5,180.30	174.44	30.697		
9,700.00	7,740.76	7,727.76	7,727.76	116.08	133.91	98.53	257.55	-89.32	5,366.92	5,191.90	175.03	30.664		
9,750.00	7,767.01	7,754.01	7,754.01	116.23	134.36	95.75	257.55	-89.32	5,376.70	5,201.10	175.59	30.620		
9,800.00	7,790.63	7,777.63	7,777.63	116.33	134.78	93.51	257.55	-89.32	5,384.04	5,207.93	176.11	30.572		
9,850.00	7,811.44	7,801.56	7,798.44	116.38	135.19	91.77	257.55	-89.32	5,388.94	5,212.31	176.63	30.510		
9,900.00	7,829.28	7,816.28	7,816.28	116.38	135.45	90.49	257.55	-89.32	5,391.40	5,214.41	176.99	30.462		
9,950.00	7,844.01	7,831.01	7,831.01	116.35	135.71	89.64	257.55	-89.32	5,391.43	5,214.09	177.35	30.400		
10,000.00	7,855.52	7,842.52	7,842.52	116.28	135.91	89.18	257.55	-89.32	5,389.07	5,211.42	177.66	30.334		
10,050.00	7,863.72	7,850.72	7,850.72	116.18	136.05	89.10	257.55	-89.32	5,384.35	5,206.43	177.92	30.263		
10,100.00	7,868.56	7,855.56	7,855.56	116.06	136.14	89.40	257.55	-89.32	5,377.31	5,199.18	178.13	30.188		
10,145.94	7,870.00	7,857.00	7,857.00	115.92	136.16	90.00	257.55	-89.32	5,368.84	5,190.56	178.28	30.115		
10,200.00	7,870.00	7,857.00	7,857.00	115.76	136.16	90.00	257.55	-89.32	5,358.03	5,179.59	178.44	30.026		
10,300.00	7,870.00	7,857.00	7,857.00	115.46	136.16	90.00	257.55	-89.32	5,339.42	5,160.63	178.79	29.865		
10,400.00	7,870.00	7,857.00	7,857.00	115.18	136.16	90.00	257.55	-89.32	5,322.63	5,143.44	179.18	29.705		
10,500.00	7,870.00	7,857.00	7,857.00	114.91	136.16	90.00	257.55	-89.32	5,307.66	5,128.04	179.63	29.549		
10,600.00	7,870.00	7,857.00	7,857.00	114.65	136.16	90.00	257.55	-89.32	5,294.55	5,114.43	180.12	29.395		
10,700.00	7,870.00	7,857.00	7,857.00	114.41	136.16	90.00	257.55	-89.32	5,283.29	5,102.64	180.65	29.245		
10,800.00	7,870.00	7,857.00	7,857.00	114.17	136.16	90.00	257.55	-89.32	5,273.91	5,092.67	181.24	29.100		
10,900.00	7,870.00	7,857.00	7,857.00	113.95	136.16	90.00	257.55	-89.32	5,266.40	5,084.55	181.86	28.959		
11,000.00	7,870.00	7,857.00	7,857.00	113.75	136.16	90.00	257.55	-89.32	5,260.79	5,078.27	182.52	28.823		
11,100.00	7,870.00	7,857.00	7,857.00	113.55	136.16	90.00	257.55	-89.32	5,257.08	5,073.86	183.22	28.693		
11,200.00	7,870.00	7,857.00	7,857.00	113.37	136.16	90.00	257.55	-89.32	5,255.26	5,071.32	183.95	28.569		
11,245.34	7,870.00	7,857.00	7,857.00	113.29	136.16	90.00	257.55	-89.32	5,255.07	5,070.77	184.30	28.514		
11,300.00	7,870.00	7,857.00	7,857.00	113.20	136.16	90.00	257.55	-89.32	5,255.35	5,070.65	184.71	28.452		
11,400.00	7,870.00	7,857.00	7,857.00	113.04	136.16	90.00	257.55	-89.32	5,257.34	5,071.85	185.50	28.342		
11,500.00	7,870.00	7,857.00	7,857.00	112.89	136.16	90.00	257.55	-89.32	5,261.24	5,074.93	186.31	28.239		
11,600.00	7,870.00	7,857.00	7,857.00	112.76	136.16	90.00	257.55	-89.32	5,267.02	5,079.88	187.14	28.145		
11,700.00	7,870.00	7,857.00	7,857.00	112.64	136.16	90.00	257.55	-89.32	5,274.70	5,086.71	187.99	28.058		
11,800.00	7,870.00	7,857.00	7,857.00	112.53	136.16	90.00	257.55	-89.32	5,284.26	5,095.40	188.86	27.980		
11,900.00	7,870.00	7,857.00	7,857.00	112.44	136.16	90.00	257.55	-89.32	5,295.69	5,105.95	189.74	27.910		
12,000.00	7,870.00	7,857.00	7,857.00	112.36	136.16	90.00	257.55	-89.32	5,308.98	5,118.35	190.63	27.850		
12,100.00	7,870.00	7,857.00	7,857.00	112.29	136.16	90.00	257.55	-89.32	5,324.11	5,132.59	191.52	27.799		
12,200.00	7,870.00	7,857.00	7,857.00	112.24	136.16	90.00	257.55	-89.32	5,341.08	5,148.65	192.43	27.757		
12,300.00	7,870.00	7,857.00	7,857.00	112.20	136.16	90.00	257.55	-89.32	5,359.86	5,166.53	193.33	27.724		
12,400.00	7,870.00	7,857.00	7,857.00	112.17	136.16	90.00	257.55	-89.32	5,380.43	5,186.20	194.23	27.701		
12,500.00	7,870.00	7,857.00	7,857.00	112.16	136.16	90.00	257.55	-89.32	5,402.77	5,207.64	195.13	27.688		
12,600.00	7,870.00	7,857.00	7,857.00	112.17	136.16	90.00	257.55	-89.32	5,426.86	5,230.84	196.03	27.684		
12,700.00	7,870.00	7,857.00	7,857.00	112.19	136.16	90.00	257.55	-89.32	5,452.69	5,255.77	196.92	27.690		
12,800.00	7,870.00	7,857.00	7,857.00	112.23	136.16	90.00	257.55	-89.32	5,480.21	5,282.41	197.80	27.706		
12,900.00	7,870.00	7,857.00	7,857.00	112.28	136.16	90.00	257.55	-89.32	5,509.41	5,310.74	198.67	27.731		
13,000.00	7,870.00	7,857.00	7,857.00	112.36	136.16	90.00	257.55	-89.32	5,540.27	5,340.74	199.53	27.766		
13,100.00	7,870.00	7,857.00	7,857.00	112.45	136.16	90.00	257.55	-89.32	5,572.75	5,372.36	200.38	27.810		
13,200.00	7,870.00	7,857.00	7,857.00	112.56	136.16	90.00	257.55	-89.32	5,606.82	5,405.60	201.22	27.864		
13,300.00	7,870.00	7,857.00	7,857.00	112.68	136.16	90.00	257.55	-89.32	5,642.46	5,440.42	202.05	27.927		
13,400.00	7,870.00	7,857.00	7,857.00	112.83	136.16	90.00	257.55	-89.32	5,679.64	5,476.78	202.86	27.998		
13,500.00	7,870.00	7,857.00	7,857.00	113.00	136.16	90.00	257.55	-89.32	5,718.33	5,514.67	203.65	28.079		
13,600.00	7,870.00	7,857.00	7,857.00	113.19	136.16	90.00	257.55	-89.32	5,758.49	5,554.06	204.43	28.169		
13,700.00	7,870.00	7,857.00	7,857.00	113.40	136.16	90.00	257.55	-89.32	5,800.10	5,594.91	205.19	28.267		
13,800.00	7,870.00	7,857.00	7,857.00	113.63	136.16	90.00	257.55	-89.32	5,843.12	5,637.18	205.93	28.374		
13,900.00	7,870.00	7,857.00	7,857.00	113.89	136.16	90.00	257.55	-89.32	5,887.53	5,680.86	206.66	28.489		
14,000.00	7,870.00	7,857.00	7,857.00	114.18	136.16	90.00	257.55	-89.32	5,933.29	5,725.92	207.37	28.612		
14,100.00	7,870.00	7,857.00	7,857.00	114.48	136.16	90.00	257.55	-89.32	5,980.37	5,772.31	208.06	28.743		

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

Offset Design SEC 22-T1N-R68W - ABND VERT COSSLETT B UNIT 1X - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,870.00	7,857.00	7,857.00	114.82	136.16	90.00	257.55	-89.32	6,028.74	5,820.01	208.74	28.882		
14,300.00	7,870.00	7,857.00	7,857.00	115.18	136.16	90.00	257.55	-89.32	6,078.38	5,868.99	209.39	29.028		
14,400.00	7,870.00	7,857.00	7,857.00	115.57	136.16	90.00	257.55	-89.32	6,129.24	5,919.21	210.03	29.182		
14,500.00	7,870.00	7,857.00	7,857.00	115.99	136.16	90.00	257.55	-89.32	6,181.31	5,970.65	210.65	29.343		
14,600.00	7,870.00	7,857.00	7,857.00	116.44	136.16	90.00	257.55	-89.32	6,234.54	6,023.28	211.26	29.512		
14,700.00	7,870.00	7,857.00	7,857.00	116.92	136.16	90.00	257.55	-89.32	6,288.91	6,077.07	211.84	29.687		
14,800.00	7,870.00	7,857.00	7,857.00	117.44	136.16	90.00	257.55	-89.32	6,344.40	6,131.98	212.41	29.868		
14,900.00	7,870.00	7,857.00	7,857.00	117.98	136.16	90.00	257.55	-89.32	6,400.96	6,188.00	212.96	30.057		
15,000.00	7,870.00	7,857.00	7,857.00	118.56	136.16	90.00	257.55	-89.32	6,458.58	6,245.08	213.50	30.251		
15,100.00	7,870.00	7,857.00	7,857.00	119.17	136.16	90.00	257.55	-89.32	6,517.22	6,303.20	214.02	30.452		
15,200.00	7,870.00	7,857.00	7,857.00	119.81	136.16	90.00	257.55	-89.32	6,576.86	6,362.34	214.52	30.659		
15,300.00	7,870.00	7,857.00	7,857.00	120.48	136.16	90.00	257.55	-89.32	6,637.47	6,422.46	215.01	30.871		
15,400.00	7,870.00	7,857.00	7,857.00	121.19	136.16	90.00	257.55	-89.32	6,699.03	6,483.55	215.48	31.089		
15,500.00	7,870.00	7,857.00	7,857.00	121.93	136.16	90.00	257.55	-89.32	6,761.50	6,545.57	215.93	31.313		
15,600.00	7,870.00	7,857.00	7,857.00	122.71	136.16	90.00	257.55	-89.32	6,824.87	6,608.49	216.38	31.542		
15,700.00	7,870.00	7,857.00	7,857.00	123.52	136.16	90.00	257.55	-89.32	6,889.10	6,672.30	216.80	31.776		
15,800.00	7,870.00	7,857.00	7,857.00	124.36	136.16	90.00	257.55	-89.32	6,954.18	6,736.97	217.22	32.015		
15,900.00	7,870.00	7,857.00	7,857.00	125.23	136.16	90.00	257.55	-89.32	7,020.09	6,802.47	217.62	32.259		
16,000.00	7,870.00	7,857.00	7,857.00	126.14	136.16	90.00	257.55	-89.32	7,086.79	6,868.78	218.00	32.508		
16,100.00	7,870.00	7,857.00	7,857.00	127.07	136.16	90.00	257.55	-89.32	7,154.26	6,935.88	218.38	32.761		
16,200.00	7,870.00	7,857.00	7,857.00	128.04	136.16	90.00	257.55	-89.32	7,222.49	7,003.75	218.74	33.019		
16,300.00	7,870.00	7,857.00	7,857.00	129.04	136.16	90.00	257.55	-89.32	7,291.46	7,072.37	219.09	33.281		
16,400.00	7,870.00	7,857.00	7,857.00	130.06	136.16	90.00	257.55	-89.32	7,361.13	7,141.71	219.43	33.547		
16,500.00	7,870.00	7,857.00	7,857.00	131.11	136.16	90.00	257.55	-89.32	7,431.50	7,211.75	219.75	33.817		
16,600.00	7,870.00	7,857.00	7,857.00	132.19	136.16	90.00	257.55	-89.32	7,502.54	7,282.47	220.07	34.092		
16,700.00	7,870.00	7,857.00	7,857.00	133.29	136.16	90.00	257.55	-89.32	7,574.24	7,353.86	220.37	34.370		
16,800.00	7,870.00	7,857.00	7,857.00	134.42	136.16	90.00	257.55	-89.32	7,646.57	7,425.90	220.67	34.652		
16,900.00	7,870.00	7,857.00	7,857.00	135.57	136.16	90.00	257.55	-89.32	7,719.52	7,498.56	220.96	34.937		
17,000.00	7,870.00	7,857.00	7,857.00	136.75	136.16	90.00	257.55	-89.32	7,793.06	7,571.83	221.23	35.226		
17,100.00	7,870.00	7,857.00	7,857.00	137.94	136.16	90.00	257.55	-89.32	7,867.20	7,645.70	221.50	35.518		
17,200.00	7,870.00	7,857.00	7,857.00	139.16	136.16	90.00	257.55	-89.32	7,941.90	7,720.14	221.76	35.814		
17,300.00	7,870.00	7,857.00	7,857.00	140.39	136.16	90.00	257.55	-89.32	8,017.15	7,795.14	222.01	36.112		
17,400.00	7,870.00	7,857.00	7,857.00	141.65	136.16	90.00	257.55	-89.32	8,092.93	7,870.69	222.25	36.414		
17,500.00	7,870.00	7,857.00	7,857.00	142.92	136.16	90.00	257.55	-89.32	8,169.24	7,946.76	222.48	36.719		
17,600.00	7,870.00	7,857.00	7,857.00	144.21	136.16	90.00	257.55	-89.32	8,246.06	8,023.35	222.71	37.027		
17,700.00	7,870.00	7,857.00	7,857.00	145.52	136.16	90.00	257.55	-89.32	8,323.36	8,100.44	222.92	37.337		
17,800.00	7,870.00	7,857.00	7,857.00	146.84	136.16	90.00	257.55	-89.32	8,401.15	8,178.01	223.13	37.651		
17,900.00	7,870.00	7,857.00	7,857.00	148.18	136.16	90.00	257.55	-89.32	8,479.40	8,256.06	223.34	37.966		
18,000.00	7,870.00	7,857.00	7,857.00	149.54	136.16	90.00	257.55	-89.32	8,558.11	8,334.57	223.54	38.285		
18,100.00	7,870.00	7,857.00	7,857.00	150.90	136.16	90.00	257.55	-89.32	8,637.25	8,413.52	223.73	38.606		
18,200.00	7,870.00	7,857.00	7,857.00	152.28	136.16	90.00	257.55	-89.32	8,716.83	8,492.91	223.91	38.929		
18,300.00	7,870.00	7,857.00	7,857.00	153.67	136.16	90.00	257.55	-89.32	8,796.82	8,572.72	224.09	39.255		
18,400.00	7,870.00	7,857.00	7,857.00	155.07	136.16	90.00	257.55	-89.32	8,877.21	8,652.95	224.27	39.583		
18,500.00	7,870.00	7,857.00	7,857.00	156.49	136.16	90.00	257.55	-89.32	8,958.00	8,733.57	224.44	39.913		
18,600.00	7,870.00	7,857.00	7,857.00	157.91	136.16	90.00	257.55	-89.32	9,039.18	8,814.58	224.60	40.246		
18,700.00	7,870.00	7,857.00	7,857.00	159.35	136.16	90.00	257.55	-89.32	9,120.73	8,895.97	224.76	40.580		
18,800.00	7,870.00	7,857.00	7,857.00	160.79	136.16	90.00	257.55	-89.32	9,202.64	8,977.73	224.91	40.917		
18,900.00	7,870.00	7,857.00	7,857.00	162.25	136.16	90.00	257.55	-89.32	9,284.91	9,059.85	225.06	41.255		
19,000.00	7,870.00	7,857.00	7,857.00	163.71	136.16	90.00	257.55	-89.32	9,367.52	9,142.32	225.20	41.596		
19,100.00	7,870.00	7,857.00	7,857.00	165.18	136.16	90.00	257.55	-89.32	9,450.47	9,225.13	225.34	41.938		
19,200.00	7,870.00	7,857.00	7,857.00	166.66	136.16	90.00	257.55	-89.32	9,533.75	9,308.27	225.48	42.282		
19,300.00	7,870.00	7,857.00	7,857.00	168.15	136.16	90.00	257.55	-89.32	9,617.34	9,391.73	225.61	42.628		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - ABND VERT COSSLETT B UNIT 1X - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,870.00	7,857.00	7,857.00	169.65	136.16	90.00	257.55	-89.32	9,701.25	9,475.51	225.74	42.975	
19,500.00	7,870.00	7,857.00	7,857.00	171.15	136.16	90.00	257.55	-89.32	9,785.46	9,559.59	225.87	43.324	
19,600.00	7,870.00	7,857.00	7,857.00	172.66	136.16	90.00	257.55	-89.32	9,869.96	9,643.97	225.99	43.675	
19,700.00	7,870.00	7,857.00	7,857.00	174.18	136.16	90.00	257.55	-89.32	9,954.75	9,728.64	226.11	44.027	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	2.00	2.00	0.00	0.00	-89.58	0.73	-99.96	99.96				
100.00	100.00	102.00	102.00	0.13	0.14	-89.58	0.73	-99.96	99.96	99.69	0.28	362.156	
200.00	200.00	202.00	202.00	0.49	0.50	-89.58	0.73	-99.96	99.96	98.97	0.99	100.672	
300.00	300.00	302.00	302.00	0.85	0.86	-89.58	0.73	-99.96	99.96	98.25	1.71	58.461 CC, ES	
400.00	399.98	401.98	401.98	1.21	1.22	-158.09	0.73	-99.96	101.58	99.16	2.42	41.928	
500.00	499.84	501.84	501.84	1.56	1.57	-159.10	0.73	-99.96	106.45	103.32	3.14	33.929	
600.00	599.45	601.45	601.45	1.93	1.93	-160.60	0.73	-99.96	114.64	110.78	3.86	29.729	
700.00	698.70	700.70	700.70	2.32	2.29	-162.37	0.73	-99.96	126.21	121.63	4.58	27.573	
800.00	797.47	800.53	799.47	2.72	2.65	-164.21	0.73	-99.96	141.21	135.90	5.30	26.624	
900.00	895.62	902.38	897.62	3.16	3.01	-165.98	0.73	-99.96	159.67	153.63	6.04	26.431	
1,000.00	993.06	1,004.94	995.06	3.63	3.38	-167.60	0.73	-99.96	181.60	174.81	6.78	26.769	
1,100.00	1,089.64	1,108.36	1,091.64	4.14	3.75	-169.04	0.73	-99.96	206.98	199.45	7.53	27.476	
1,200.00	1,185.27	1,187.27	1,187.27	4.70	4.03	-170.29	0.73	-99.96	235.78	227.58	8.20	28.762	
1,300.00	1,279.82	1,281.82	1,281.82	5.31	4.37	-171.36	0.73	-99.96	267.97	259.04	8.92	30.034	
1,400.00	1,373.17	1,382.53	1,382.52	5.97	4.73	-172.22	1.60	-99.15	302.57	292.89	9.68	31.266	
1,500.00	1,465.21	1,485.91	1,485.78	6.69	5.10	-172.64	5.14	-95.85	337.67	327.22	10.45	32.322	
1,600.00	1,555.84	1,590.40	1,589.90	7.47	5.47	-172.72	11.49	-89.94	373.14	361.92	11.23	33.233	
1,700.00	1,644.94	1,696.01	1,694.75	8.31	5.86	-172.54	20.73	-81.34	408.95	396.92	12.02	34.015	
1,800.00	1,732.39	1,802.72	1,800.15	9.23	6.25	-172.15	32.94	-69.99	445.05	432.21	12.83	34.678	
1,900.00	1,818.11	1,910.55	1,905.94	10.21	6.68	-171.60	48.18	-55.80	481.43	467.77	13.67	35.229	
2,000.00	1,901.97	2,019.48	2,011.94	11.26	7.12	-170.90	66.52	-38.73	518.09	503.57	14.52	35.674	
2,100.00	1,983.88	2,129.51	2,117.97	12.38	7.62	-170.10	88.03	-18.71	555.02	539.60	15.42	35.999	
2,200.00	2,063.74	2,240.63	2,223.82	13.57	8.15	-169.19	112.76	4.30	592.21	575.85	16.35	36.215	
2,300.00	2,141.45	2,352.83	2,329.29	14.84	8.73	-168.20	140.76	30.36	629.66	612.32	17.34	36.314	
2,327.78	2,162.65	2,384.20	2,358.50	15.21	8.90	-167.91	149.13	38.15	640.11	622.49	17.63	36.318	
2,400.00	2,217.51	2,466.48	2,434.52	16.17	9.38	-167.24	172.19	59.61	666.55	648.16	18.39	36.246	
2,500.00	2,293.49	2,582.44	2,540.04	17.51	10.09	-166.19	207.37	92.35	700.64	681.12	19.52	35.898	
2,600.00	2,369.47	2,674.69	2,623.32	18.86	10.71	-165.36	236.41	119.38	733.56	712.93	20.63	35.558	
2,700.00	2,445.45	2,768.59	2,708.08	20.22	11.35	-164.59	265.98	146.90	766.60	744.82	21.78	35.197	
2,800.00	2,521.42	2,862.48	2,792.84	21.59	12.01	-163.89	295.56	174.43	799.76	776.80	22.96	34.831	
2,900.00	2,597.40	2,956.38	2,877.60	22.97	12.68	-163.23	325.13	201.95	833.01	808.85	24.17	34.466	
3,000.00	2,673.38	3,050.27	2,962.36	24.34	13.37	-162.63	354.70	229.47	866.36	840.96	25.40	34.106	
3,100.00	2,749.36	3,144.17	3,047.13	25.73	14.06	-162.07	384.27	256.99	899.79	873.13	26.66	33.753	
3,200.00	2,825.33	3,238.07	3,131.89	27.11	14.76	-161.56	413.84	284.51	933.29	905.35	27.93	33.411	
3,300.00	2,901.31	3,331.96	3,216.65	28.50	15.48	-161.07	443.41	312.03	966.85	937.62	29.23	33.081	
3,400.00	2,977.29	3,425.86	3,301.41	29.90	16.19	-160.62	472.98	339.55	1,000.46	969.93	30.54	32.762	
3,500.00	3,053.27	3,519.76	3,386.18	31.29	16.92	-160.20	502.55	367.07	1,034.13	1,002.27	31.86	32.457	
3,600.00	3,129.24	3,613.65	3,470.94	32.69	17.65	-159.81	532.13	394.59	1,067.85	1,034.65	33.20	32.164	
3,700.00	3,205.22	3,707.55	3,555.70	34.08	18.38	-159.44	561.70	422.12	1,101.61	1,067.06	34.55	31.884	
3,800.00	3,281.20	3,801.45	3,640.46	35.48	19.12	-159.09	591.27	449.64	1,135.41	1,099.49	35.91	31.617	
3,900.00	3,357.18	3,904.66	3,725.23	36.88	19.93	-158.76	620.84	477.16	1,169.24	1,131.90	37.34	31.312	
4,000.00	3,433.15	3,989.24	3,809.99	38.29	20.60	-158.45	650.41	504.68	1,203.10	1,164.44	38.66	31.117	
4,100.00	3,509.13	4,083.14	3,894.75	39.69	21.35	-158.16	679.98	532.20	1,237.00	1,196.94	40.05	30.884	
4,200.00	3,585.11	4,177.03	3,979.51	41.09	22.10	-157.88	709.55	559.72	1,270.92	1,229.47	41.45	30.662	
4,300.00	3,661.08	4,270.93	4,064.28	42.50	22.85	-157.61	739.13	587.24	1,304.87	1,262.01	42.85	30.449	
4,400.00	3,737.06	4,364.82	4,149.04	43.90	23.60	-157.36	768.70	614.76	1,338.84	1,294.57	44.26	30.247	
4,500.00	3,813.04	4,458.72	4,233.80	45.31	24.35	-157.13	798.27	642.28	1,372.83	1,327.15	45.68	30.053	
4,600.00	3,889.02	4,552.62	4,318.56	46.71	25.11	-156.90	827.84	669.81	1,406.84	1,359.74	47.10	29.868	
4,700.00	3,964.99	4,646.51	4,403.33	48.12	25.87	-156.69	857.41	697.33	1,440.87	1,392.34	48.53	29.691	
4,800.00	4,040.97	4,740.41	4,488.09	49.53	26.63	-156.48	886.98	724.85	1,474.92	1,424.96	49.96	29.522	
4,900.00	4,116.95	4,834.31	4,572.85	50.94	27.39	-156.28	916.55	752.37	1,508.98	1,457.58	51.40	29.360	
5,000.00	4,192.93	4,928.20	4,657.61	52.35	28.15	-156.10	946.12	779.89	1,543.06	1,490.22	52.84	29.204	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,268.90	5,022.10	4,742.38	53.76	28.92	-155.92	975.70	807.41	1,577.15	1,522.87	54.28	29.055		
5,200.00	4,344.88	5,116.00	4,827.14	55.16	29.68	-155.74	1,005.27	834.93	1,611.26	1,555.53	55.73	28.913		
5,300.00	4,420.86	5,209.89	4,911.90	56.57	30.45	-155.58	1,034.84	862.45	1,645.37	1,588.19	57.18	28.776		
5,400.00	4,496.84	5,303.79	4,996.66	57.98	31.21	-155.42	1,064.41	889.97	1,679.50	1,620.87	58.63	28.644		
5,500.00	4,572.81	5,402.32	5,081.42	59.39	32.02	-155.27	1,093.98	917.50	1,713.64	1,653.52	60.12	28.503		
5,600.00	4,648.79	5,508.42	5,166.19	60.81	32.88	-155.12	1,123.55	945.02	1,747.79	1,686.13	61.66	28.345		
5,700.00	4,724.77	5,585.48	5,250.95	62.22	33.51	-154.98	1,153.12	972.54	1,781.95	1,718.94	63.01	28.280		
5,800.00	4,800.74	5,679.37	5,335.71	63.63	34.28	-154.85	1,182.69	1,000.06	1,816.12	1,751.65	64.48	28.167		
5,900.00	4,876.72	5,773.27	5,420.47	65.04	35.05	-154.72	1,212.27	1,027.58	1,850.30	1,784.36	65.94	28.059		
6,000.00	4,952.70	5,867.17	5,505.24	66.45	35.82	-154.59	1,241.84	1,055.10	1,884.49	1,817.07	67.41	27.955		
6,100.00	5,028.68	5,961.06	5,590.00	67.86	36.59	-154.47	1,271.41	1,082.62	1,918.68	1,849.80	68.88	27.854		
6,200.00	5,104.65	6,054.96	5,674.76	69.27	37.37	-154.35	1,300.98	1,110.14	1,952.88	1,882.52	70.36	27.757		
6,300.00	5,180.63	6,148.86	5,759.52	70.69	38.14	-154.24	1,330.55	1,137.66	1,987.09	1,915.26	71.83	27.663		
6,400.00	5,256.61	6,242.75	5,844.29	72.10	38.91	-154.13	1,360.12	1,165.19	2,021.30	1,948.00	73.31	27.573		
6,500.00	5,332.59	6,336.65	5,929.05	73.51	39.68	-154.03	1,389.69	1,192.71	2,055.52	1,980.74	74.79	27.485		
6,600.00	5,408.56	6,430.55	6,013.81	74.92	40.45	-153.93	1,419.26	1,220.23	2,089.75	2,013.48	76.27	27.401		
6,700.00	5,484.54	6,524.44	6,098.57	76.34	41.23	-153.83	1,448.84	1,247.75	2,123.98	2,046.24	77.75	27.319		
6,800.00	5,560.52	6,618.34	6,183.34	77.75	42.00	-153.73	1,478.41	1,275.27	2,158.22	2,078.99	79.23	27.240		
6,900.00	5,636.50	6,712.23	6,268.10	79.16	42.78	-153.64	1,507.98	1,302.79	2,192.46	2,111.75	80.71	27.163		
7,000.00	5,712.47	6,806.13	6,352.86	80.57	43.55	-153.55	1,537.55	1,330.31	2,226.71	2,144.51	82.20	27.089		
7,100.00	5,788.45	6,900.03	6,437.62	81.99	44.32	-153.46	1,567.12	1,357.83	2,260.96	2,177.28	83.69	27.017		
7,200.00	5,864.43	7,006.08	6,522.39	83.40	45.20	-153.38	1,596.69	1,385.35	2,295.22	2,209.96	85.26	26.921		
7,300.00	5,940.40	7,087.82	6,607.15	84.81	45.87	-153.30	1,626.26	1,412.88	2,329.48	2,242.82	86.66	26.880		
7,400.00	6,016.38	7,181.72	6,691.91	86.23	46.65	-153.22	1,655.83	1,440.40	2,363.75	2,275.60	88.15	26.815		
7,500.00	6,092.36	7,275.61	6,776.67	87.64	47.43	-153.14	1,685.41	1,467.92	2,398.02	2,308.37	89.64	26.751		
7,600.00	6,168.34	7,369.51	6,861.43	89.05	48.20	-153.06	1,714.98	1,495.44	2,432.29	2,341.16	91.13	26.689		
7,700.00	6,244.31	7,463.41	6,946.20	90.47	48.98	-152.99	1,744.55	1,522.96	2,466.57	2,373.94	92.63	26.629		
7,800.00	6,320.29	7,557.30	7,030.96	91.88	49.75	-152.92	1,774.12	1,550.48	2,500.85	2,406.73	94.12	26.571		
7,900.00	6,396.27	7,651.20	7,115.72	93.30	50.53	-152.85	1,803.69	1,578.00	2,535.13	2,439.51	95.61	26.514		
8,000.00	6,472.25	7,744.38	7,228.44	94.71	51.49	-152.90	1,836.80	1,614.58	2,569.11	2,471.84	97.27	26.413		
8,100.00	6,548.22	7,838.53	7,360.30	96.12	52.25	-153.65	1,844.47	1,657.26	2,601.52	2,503.62	97.90	26.574		
8,200.00	6,624.20	7,933.25	7,472.37	97.54	52.59	-154.85	1,824.19	1,693.45	2,632.93	2,535.50	97.43	27.024		
8,300.00	6,700.18	8,028.36	7,557.92	98.95	52.67	-156.15	1,790.47	1,721.01	2,664.44	2,567.95	96.49	27.614		
8,400.00	6,776.16	8,124.28	7,620.18	100.37	52.62	-157.33	1,754.04	1,741.03	2,697.02	2,601.54	95.48	28.247		
8,500.00	6,852.13	8,220.46	7,685.11	101.78	52.52	-158.34	1,720.04	1,755.45	2,731.32	2,636.78	94.55	28.889		
8,600.00	6,928.11	8,316.08	7,749.91	103.20	52.42	-159.19	1,690.14	1,765.95	2,767.77	2,674.05	93.72	29.532		
8,700.00	7,004.09	8,412.39	7,824.92	104.61	52.31	-159.88	1,664.45	1,773.77	2,806.59	2,713.61	92.99	30.183		
8,800.00	7,080.06	8,508.75	7,900.92	106.02	52.21	-160.46	1,642.52	1,779.71	2,847.88	2,755.57	92.31	30.850		
8,900.00	7,156.04	8,604.00	7,976.62	107.44	52.12	-160.99	1,622.08	1,784.72	2,891.67	2,800.03	91.64	31.555		
9,000.00	7,232.02	8,700.25	8,052.83	108.85	52.05	-161.36	1,607.69	1,787.97	2,937.93	2,846.85	91.08	32.257		
9,104.68	7,311.55	8,800.64	8,133.47	110.33	51.98	-161.72	1,593.18	1,791.04	2,988.96	2,898.50	90.46	33.042		
9,150.00	7,346.29	8,900.00	8,218.98	111.75	51.92	-169.90	1,581.17	1,793.43	3,011.88	2,921.83	90.05	33.447		
9,200.00	7,385.15	9,000.00	8,304.98	113.17	51.92	-178.99	1,581.17	1,793.43	3,037.55	2,947.57	89.98	33.758		
9,250.00	7,424.29	9,100.00	8,391.56	114.60	51.86	-171.47	1,569.65	1,795.60	3,063.46	2,973.81	89.65	34.172		
9,300.00	7,463.40	9,200.00	8,478.50	116.03	51.81	-162.03	1,559.58	1,797.40	3,089.35	2,999.96	89.39	34.560		
9,350.00	7,502.19	9,300.00	8,565.84	117.46	51.75	-152.86	1,548.63	1,799.27	3,115.00	3,025.85	89.15	34.941		
9,400.00	7,540.36	9,400.00	8,653.85	118.89	51.70	-144.18	1,537.91	1,801.00	3,140.20	3,051.25	88.95	35.301		
9,450.00	7,577.62	9,500.00	8,741.38	120.32	51.62	-136.11	1,524.35	1,803.07	3,164.73	3,076.00	88.72	35.670		
9,500.00	7,613.70	9,599.80	8,829.34	121.75	51.55	-128.76	1,511.15	1,804.95	3,188.38	3,099.84	88.54	36.010		
9,550.00	7,648.30	9,699.00	8,917.05	123.18	51.45	-122.10	1,492.64	1,807.38	3,210.99	3,122.73	88.27	36.378		
9,600.00	7,681.18	9,798.00	9,004.05	124.61	51.45	-116.38	1,492.64	1,807.38	3,232.39	3,143.89	88.51	36.522		
9,650.00	7,712.08	9,897.00	9,091.23	126.04	51.32	-111.14	1,467.87	1,810.27	3,252.32	3,164.16	88.16	36.891		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,700.00	7,740.76	8,600.00	7,844.41	116.08	51.20	106.62	1,445.69	1,812.52	3,270.76	3,182.84	87.93	37.199		
9,750.00	7,767.01	8,600.00	7,844.41	116.23	51.20	102.86	1,445.69	1,812.52	3,287.52	3,199.21	88.31	37.227		
9,800.00	7,790.63	8,626.60	7,851.51	116.33	51.05	99.53	1,420.15	1,814.73	3,302.43	3,214.34	88.09	37.490		
9,850.00	7,811.44	8,650.00	7,856.82	116.38	50.93	96.77	1,397.42	1,816.37	3,315.47	3,227.48	87.99	37.681		
9,900.00	7,829.28	8,650.00	7,856.82	116.38	50.93	94.58	1,397.42	1,816.37	3,326.54	3,238.00	88.54	37.570		
9,950.00	7,844.01	8,678.72	7,862.12	116.35	50.76	92.79	1,369.25	1,817.98	3,335.44	3,247.03	88.41	37.729		
10,000.00	7,855.52	8,700.00	7,865.18	116.28	50.65	91.45	1,348.20	1,818.90	3,342.26	3,253.75	88.51	37.762		
10,050.00	7,863.72	8,700.00	7,865.18	116.18	50.65	90.56	1,348.20	1,818.90	3,346.97	3,257.73	89.24	37.505		
10,100.00	7,868.56	8,731.90	7,868.37	116.06	50.47	90.06	1,316.48	1,819.83	3,349.30	3,260.14	89.16	37.566		
10,145.94	7,870.00	8,750.00	7,869.43	115.92	50.36	89.96	1,298.42	1,820.11	3,349.55	3,260.13	89.43	37.456		
10,200.00	7,870.00	8,767.53	7,869.94	115.76	50.26	89.96	1,280.90	1,820.21	3,349.02	3,259.15	89.87	37.264		
10,222.09	7,870.00	8,778.63	7,870.00	115.69	50.20	89.97	1,274.55	1,820.21	3,348.96	3,258.90	90.06	37.186		
10,300.00	7,870.00	8,851.79	7,870.00	115.46	49.79	89.97	1,196.63	1,819.95	3,348.97	3,259.68	89.28	37.510		
10,400.00	7,870.00	8,951.79	7,870.00	115.18	49.26	89.97	1,096.63	1,819.61	3,348.97	3,260.61	88.36	37.900		
10,500.00	7,870.00	9,051.79	7,870.00	114.91	48.76	89.97	996.63	1,819.27	3,348.97	3,261.40	87.58	38.239		
10,600.00	7,870.00	9,151.79	7,870.00	114.65	48.28	89.97	896.63	1,818.93	3,348.98	3,262.04	86.93	38.523		
10,700.00	7,870.00	9,251.79	7,870.00	114.41	47.83	89.97	796.63	1,818.59	3,348.98	3,262.55	86.43	38.747		
10,800.00	7,870.00	9,351.79	7,870.00	114.17	47.41	89.97	696.64	1,818.25	3,348.99	3,262.91	86.07	38.909		
10,900.00	7,870.00	9,451.79	7,870.00	113.95	47.02	89.97	596.64	1,817.91	3,348.99	3,263.13	85.86	39.005		
11,000.00	7,870.00	9,551.79	7,870.00	113.75	46.64	89.97	496.64	1,817.57	3,349.00	3,263.20	85.80	39.035		
11,100.00	7,870.00	9,651.79	7,870.00	113.55	46.30	89.97	396.64	1,817.23	3,349.00	3,263.12	85.88	38.997		
11,200.00	7,870.00	9,751.79	7,870.00	113.37	45.97	89.97	296.64	1,816.89	3,349.00	3,262.90	86.11	38.893		
11,300.00	7,870.00	9,851.79	7,870.00	113.20	45.67	89.97	196.64	1,816.55	3,349.01	3,262.53	86.48	38.725		
11,400.00	7,870.00	9,951.79	7,870.00	113.04	45.39	89.97	96.64	1,816.21	3,349.01	3,262.01	87.00	38.494		
11,500.00	7,870.00	10,051.79	7,870.00	112.89	45.14	89.97	-3.36	1,815.87	3,349.02	3,261.36	87.66	38.204		
11,600.00	7,870.00	10,151.79	7,870.00	112.76	44.92	89.97	-103.36	1,815.53	3,349.02	3,260.56	88.46	37.860		
11,700.00	7,870.00	10,251.79	7,870.00	112.64	44.73	89.97	-203.36	1,815.19	3,349.03	3,259.64	89.39	37.467		
11,800.00	7,870.00	10,351.79	7,870.00	112.53	44.59	89.97	-303.36	1,814.85	3,349.03	3,258.58	90.45	37.028		
11,900.00	7,870.00	10,451.79	7,870.00	112.44	44.55	89.97	-403.36	1,814.51	3,349.03	3,257.40	91.63	36.550		
12,000.00	7,870.00	10,551.79	7,870.00	112.36	44.66	89.97	-503.36	1,814.17	3,349.04	3,256.11	92.93	36.038		
12,100.00	7,870.00	10,651.79	7,870.00	112.29	45.05	89.97	-603.36	1,813.83	3,349.04	3,254.69	94.35	35.496		
12,200.00	7,870.00	10,751.79	7,870.00	112.24	45.74	89.97	-703.36	1,813.49	3,349.05	3,253.17	95.88	34.931		
12,300.00	7,870.00	10,851.79	7,870.00	112.20	46.62	89.97	-803.36	1,813.15	3,349.05	3,251.55	97.51	34.347		
12,400.00	7,870.00	10,951.79	7,870.00	112.17	47.62	89.97	-903.36	1,812.81	3,349.06	3,249.82	99.23	33.749		
12,500.00	7,870.00	11,051.79	7,870.00	112.16	48.69	89.97	-1,003.35	1,812.47	3,349.06	3,248.00	101.06	33.141		
12,600.00	7,870.00	11,151.79	7,870.00	112.17	49.81	89.97	-1,103.35	1,812.13	3,349.06	3,246.10	102.97	32.526		
12,700.00	7,870.00	11,251.79	7,870.00	112.19	50.97	89.97	-1,203.35	1,811.79	3,349.07	3,244.11	104.96	31.908		
12,800.00	7,870.00	11,351.79	7,870.00	112.23	52.17	89.97	-1,303.35	1,811.45	3,349.07	3,242.04	107.03	31.290		
12,900.00	7,870.00	11,451.79	7,870.00	112.28	53.40	89.97	-1,403.35	1,811.11	3,349.08	3,239.89	109.18	30.674		
13,000.00	7,870.00	11,551.79	7,870.00	112.36	54.66	89.97	-1,503.35	1,810.77	3,349.08	3,237.68	111.40	30.064		
13,100.00	7,870.00	11,651.79	7,870.00	112.45	55.94	89.97	-1,603.35	1,810.43	3,349.09	3,235.40	113.68	29.460		
13,200.00	7,870.00	11,751.79	7,870.00	112.56	57.24	89.97	-1,703.35	1,810.09	3,349.09	3,233.06	116.03	28.864		
13,300.00	7,870.00	11,851.79	7,870.00	112.68	58.57	89.97	-1,803.35	1,809.75	3,349.09	3,230.66	118.43	28.278		
13,400.00	7,870.00	11,951.79	7,870.00	112.83	59.91	89.97	-1,903.35	1,809.41	3,349.10	3,228.21	120.89	27.703		
13,500.00	7,870.00	12,051.79	7,870.00	113.00	61.28	89.97	-2,003.35	1,809.07	3,349.10	3,225.70	123.40	27.139		
13,600.00	7,870.00	12,151.79	7,870.00	113.19	62.66	89.97	-2,103.35	1,808.73	3,349.11	3,223.14	125.96	26.588		
13,700.00	7,870.00	12,251.79	7,870.00	113.40	64.06	89.97	-2,203.35	1,808.39	3,349.11	3,220.54	128.57	26.049		
13,800.00	7,870.00	12,351.79	7,870.00	113.63	65.47	89.97	-2,303.35	1,808.05	3,349.12	3,217.90	131.22	25.523		
13,900.00	7,870.00	12,451.79	7,870.00	113.89	66.90	89.97	-2,403.35	1,807.71	3,349.12	3,215.21	133.91	25.011		
14,000.00	7,870.00	12,551.79	7,870.00	114.18	68.34	89.97	-2,503.35	1,807.37	3,349.12	3,212.49	136.63	24.512		
14,100.00	7,870.00	12,651.79	7,870.00	114.48	69.80	89.97	-2,603.35	1,807.03	3,349.13	3,209.73	139.40	24.026		
14,200.00	7,870.00	12,751.79	7,870.00	114.82	71.27	89.97	-2,703.34	1,806.69	3,349.13	3,206.94	142.19	23.553		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,300.00	7,870.00	12,851.79	7,870.00	115.18	72.75	89.97	-2,803.34	1,806.35	3,349.14	3,204.11	145.02	23.094		
14,400.00	7,870.00	12,951.79	7,870.00	115.57	74.24	89.97	-2,903.34	1,806.01	3,349.14	3,201.26	147.88	22.647		
14,500.00	7,870.00	13,051.79	7,870.00	115.99	75.74	89.97	-3,003.34	1,805.67	3,349.15	3,198.38	150.77	22.214		
14,600.00	7,870.00	13,151.79	7,870.00	116.44	77.25	89.97	-3,103.34	1,805.33	3,349.15	3,195.47	153.68	21.793		
14,700.00	7,870.00	13,251.79	7,870.00	116.92	78.78	89.97	-3,203.34	1,804.99	3,349.15	3,192.53	156.62	21.384		
14,800.00	7,870.00	13,351.79	7,870.00	117.44	80.31	89.97	-3,303.34	1,804.65	3,349.16	3,189.57	159.59	20.986		
14,900.00	7,870.00	13,451.79	7,870.00	117.98	81.84	89.97	-3,403.34	1,804.31	3,349.16	3,186.59	162.57	20.601		
15,000.00	7,870.00	13,551.79	7,870.00	118.56	83.39	89.97	-3,503.34	1,803.97	3,349.17	3,183.59	165.58	20.227		
15,100.00	7,870.00	13,651.79	7,870.00	119.17	84.95	89.97	-3,603.34	1,803.63	3,349.17	3,180.56	168.61	19.864		
15,200.00	7,870.00	13,751.79	7,870.00	119.81	86.51	89.97	-3,703.34	1,803.29	3,349.18	3,177.52	171.66	19.511		
15,300.00	7,870.00	13,851.79	7,870.00	120.48	88.08	89.97	-3,803.34	1,802.95	3,349.18	3,174.46	174.72	19.169		
15,400.00	7,870.00	13,951.79	7,870.00	121.19	89.65	89.97	-3,903.34	1,802.61	3,349.18	3,171.38	177.80	18.836		
15,500.00	7,870.00	14,051.79	7,870.00	121.93	91.23	89.97	-4,003.34	1,802.27	3,349.19	3,168.28	180.90	18.514		
15,600.00	7,870.00	14,151.79	7,870.00	122.71	92.82	89.97	-4,103.34	1,801.93	3,349.19	3,165.17	184.02	18.200		
15,700.00	7,870.00	14,251.79	7,870.00	123.52	94.41	89.97	-4,203.34	1,801.59	3,349.20	3,162.05	187.15	17.896		
15,800.00	7,870.00	14,351.79	7,870.00	124.36	96.01	89.97	-4,303.34	1,801.25	3,349.20	3,158.91	190.29	17.600		
15,900.00	7,870.00	14,451.79	7,870.00	125.23	97.62	89.97	-4,403.34	1,800.91	3,349.20	3,155.76	193.45	17.313		
16,000.00	7,870.00	14,551.79	7,870.00	126.14	99.23	89.97	-4,503.33	1,800.57	3,349.21	3,152.59	196.62	17.034		
16,100.00	7,870.00	14,651.79	7,870.00	127.07	100.84	89.97	-4,603.33	1,800.23	3,349.21	3,149.41	199.80	16.763		
16,200.00	7,870.00	14,751.79	7,870.00	128.04	102.46	89.97	-4,703.33	1,799.89	3,349.22	3,146.22	202.99	16.499		
16,300.00	7,870.00	14,851.79	7,870.00	129.04	104.08	89.97	-4,803.33	1,799.55	3,349.22	3,143.02	206.20	16.243		
16,400.00	7,870.00	14,951.79	7,870.00	130.06	105.71	89.97	-4,903.33	1,799.21	3,349.23	3,139.81	209.41	15.993		
16,500.00	7,870.00	15,051.79	7,870.00	131.11	107.34	89.97	-5,003.33	1,798.87	3,349.23	3,136.59	212.64	15.751		
16,600.00	7,870.00	15,151.79	7,870.00	132.19	108.98	89.97	-5,103.33	1,798.53	3,349.23	3,133.36	215.87	15.515		
16,700.00	7,870.00	15,251.79	7,870.00	133.29	110.62	89.97	-5,203.33	1,798.19	3,349.24	3,130.12	219.12	15.285		
16,800.00	7,870.00	15,351.79	7,870.00	134.42	112.26	89.97	-5,303.33	1,797.85	3,349.24	3,126.87	222.37	15.061		
16,900.00	7,870.00	15,451.79	7,870.00	135.57	113.90	89.97	-5,403.33	1,797.51	3,349.25	3,123.61	225.63	14.844		
17,000.00	7,870.00	15,551.79	7,870.00	136.75	115.55	89.97	-5,503.33	1,797.17	3,349.25	3,120.35	228.90	14.632		
17,100.00	7,870.00	15,651.79	7,870.00	137.94	117.21	89.97	-5,603.33	1,796.83	3,349.26	3,117.08	232.18	14.425		
17,200.00	7,870.00	15,751.79	7,870.00	139.16	118.86	89.97	-5,703.33	1,796.49	3,349.26	3,113.80	235.46	14.224		
17,300.00	7,870.00	15,851.79	7,870.00	140.39	120.52	89.97	-5,803.33	1,796.15	3,349.26	3,110.51	238.76	14.028		
17,400.00	7,870.00	15,951.79	7,870.00	141.65	122.18	89.97	-5,903.33	1,795.81	3,349.27	3,107.21	242.06	13.837		
17,500.00	7,870.00	16,051.79	7,870.00	142.92	123.85	89.97	-6,003.33	1,795.47	3,349.27	3,103.91	245.36	13.650		
17,600.00	7,870.00	16,151.79	7,870.00	144.21	125.51	89.97	-6,103.33	1,795.13	3,349.28	3,100.61	248.67	13.469		
17,700.00	7,870.00	16,251.79	7,870.00	145.52	127.18	89.97	-6,203.32	1,794.79	3,349.28	3,097.29	251.99	13.291		
17,800.00	7,870.00	16,351.79	7,870.00	146.84	128.85	89.97	-6,303.32	1,794.45	3,349.29	3,093.97	255.31	13.118		
17,900.00	7,870.00	16,451.79	7,870.00	148.18	130.53	89.97	-6,403.32	1,794.11	3,349.29	3,090.65	258.64	12.950		
18,000.00	7,870.00	16,551.79	7,870.00	149.54	132.20	89.97	-6,503.32	1,793.77	3,349.29	3,087.32	261.98	12.785		
18,100.00	7,870.00	16,651.79	7,870.00	150.90	133.88	89.97	-6,603.32	1,793.43	3,349.30	3,083.98	265.32	12.624		
18,200.00	7,870.00	16,751.79	7,870.00	152.28	135.56	89.97	-6,703.32	1,793.09	3,349.30	3,080.64	268.66	12.467		
18,300.00	7,870.00	16,851.79	7,870.00	153.67	137.24	89.97	-6,803.32	1,792.75	3,349.31	3,077.30	272.01	12.313		
18,400.00	7,870.00	16,951.79	7,870.00	155.07	138.93	89.97	-6,903.32	1,792.41	3,349.31	3,073.95	275.36	12.163		
18,500.00	7,870.00	17,051.79	7,870.00	156.49	140.61	89.97	-7,003.32	1,792.07	3,349.32	3,070.59	278.72	12.017		
18,600.00	7,870.00	17,151.79	7,870.00	157.91	142.30	89.97	-7,103.32	1,791.73	3,349.32	3,067.24	282.08	11.873		
18,700.00	7,870.00	17,251.79	7,870.00	159.35	143.99	89.97	-7,203.32	1,791.39	3,349.32	3,063.87	285.45	11.733		
18,800.00	7,870.00	17,351.79	7,870.00	160.79	145.68	89.97	-7,303.32	1,791.05	3,349.33	3,060.51	288.82	11.597		
18,900.00	7,870.00	17,451.79	7,870.00	162.25	147.38	89.97	-7,403.32	1,790.71	3,349.33	3,057.14	292.20	11.463		
19,000.00	7,870.00	17,551.79	7,870.00	163.71	149.07	89.97	-7,503.32	1,790.37	3,349.34	3,053.76	295.58	11.332		
19,100.00	7,870.00	17,651.79	7,870.00	165.18	150.77	89.97	-7,603.32	1,790.03	3,349.34	3,050.38	298.96	11.203		
19,200.00	7,870.00	17,751.79	7,870.00	166.66	152.47	89.97	-7,703.32	1,789.69	3,349.35	3,047.00	302.34	11.078		
19,300.00	7,870.00	17,851.79	7,870.00	168.15	154.17	89.97	-7,803.32	1,789.35	3,349.35	3,043.62	305.73	10.955		
19,400.00	7,870.00	17,951.79	7,870.00	169.65	155.87	89.97	-7,903.31	1,789.01	3,349.35	3,040.23	309.12	10.835		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,500.00	7,870.00	18,051.79	7,870.00	171.15	157.57	89.97	-8,003.31	1,788.67	3,349.36	3,036.84	312.52	10.717	
19,600.00	7,870.00	18,151.79	7,870.00	172.66	159.27	89.97	-8,103.31	1,788.33	3,349.36	3,033.45	315.92	10.602	
19,700.00	7,870.00	18,251.79	7,870.00	174.18	160.98	89.97	-8,203.31	1,787.99	3,349.37	3,030.05	319.32	10.489	
19,800.00	7,870.00	18,351.79	7,870.00	175.70	162.68	89.97	-8,303.31	1,787.65	3,349.37	3,026.65	322.72	10.378	
19,889.26	7,870.00	18,441.05	7,870.00	177.06	164.21	89.97	-8,392.57	1,787.35	3,349.38	3,023.61	325.76	10.282 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	-89.77	0.36	-90.16	90.16					
100.00	100.00	102.00	102.00	0.13	0.14	-89.77	0.36	-90.16	90.16	89.89	0.28	326.645		
200.00	200.00	202.00	202.00	0.49	0.50	-89.77	0.36	-90.16	90.16	89.17	0.99	90.800		
300.00	300.00	302.00	302.00	0.85	0.86	-89.77	0.36	-90.16	90.16	88.45	1.71	52.729 CC, ES		
400.00	399.98	401.98	401.98	1.21	1.22	-158.31	0.36	-90.16	91.78	89.36	2.42	37.883		
500.00	499.84	501.84	501.84	1.56	1.57	-159.42	0.36	-90.16	96.66	93.53	3.14	30.808		
600.00	599.45	601.45	601.45	1.93	1.93	-161.04	0.36	-90.16	104.87	101.01	3.86	27.195		
700.00	698.70	700.70	700.70	2.32	2.29	-162.92	0.36	-90.16	116.47	111.89	4.58	25.446		
800.00	797.47	800.53	799.47	2.72	2.65	-164.84	0.36	-90.16	131.51	126.21	5.30	24.797		
900.00	895.62	902.38	897.62	3.16	3.01	-166.66	0.36	-90.16	150.03	143.99	6.04	24.837		
1,000.00	993.06	1,004.94	995.06	3.63	3.38	-168.30	0.36	-90.16	172.02	165.23	6.78	25.360		
1,100.00	1,089.64	1,108.36	1,091.64	4.14	3.75	-169.72	0.36	-90.16	197.45	189.92	7.53	26.216		
1,200.00	1,185.27	1,187.27	1,187.27	4.70	4.03	-170.95	0.36	-90.16	226.31	218.12	8.20	27.611		
1,300.00	1,279.82	1,288.83	1,288.82	5.31	4.39	-171.91	1.30	-89.15	257.43	248.49	8.95	28.772		
1,400.00	1,373.17	1,392.40	1,392.26	5.97	4.76	-172.41	4.76	-85.43	288.91	279.20	9.71	29.758		
1,500.00	1,465.21	1,497.05	1,496.52	6.69	5.14	-172.55	10.83	-78.89	320.64	310.16	10.48	30.596		
1,600.00	1,555.84	1,602.78	1,601.46	7.47	5.52	-172.42	19.60	-69.45	352.58	341.32	11.26	31.302		
1,700.00	1,644.94	1,709.60	1,706.92	8.31	5.93	-172.09	31.12	-57.03	384.70	372.64	12.06	31.892		
1,800.00	1,732.39	1,817.50	1,812.73	9.23	6.35	-171.59	45.47	-41.58	416.98	404.10	12.88	32.373		
1,900.00	1,818.11	1,926.49	1,918.73	10.21	6.81	-170.96	62.71	-23.02	449.40	435.68	13.72	32.749		
2,000.00	1,901.97	2,036.57	2,024.73	11.26	7.31	-170.22	82.89	-1.29	481.95	467.36	14.59	33.022		
2,100.00	1,983.88	2,147.73	2,130.53	12.38	7.85	-169.38	106.06	23.67	514.62	499.12	15.50	33.192		
2,200.00	2,063.74	2,259.97	2,235.95	13.57	8.45	-168.46	132.28	51.90	547.41	530.95	16.46	33.255		
2,300.00	2,141.45	2,373.28	2,340.76	14.84	9.11	-167.47	161.58	83.45	580.31	562.84	17.47	33.210		
2,327.78	2,162.65	2,404.96	2,369.74	15.21	9.30	-167.18	170.27	92.81	589.47	571.70	17.77	33.176		
2,400.00	2,217.51	2,487.99	2,445.03	16.17	9.84	-166.50	194.08	118.46	612.48	593.92	18.56	33.006		
2,500.00	2,293.49	2,600.23	2,545.17	17.51	10.63	-165.49	228.57	155.60	641.70	621.99	19.71	32.553		
2,600.00	2,369.47	2,704.31	2,629.75	18.86	11.40	-164.65	258.68	188.02	670.03	649.09	20.93	32.009		
2,700.00	2,445.45	2,791.14	2,714.34	20.22	12.06	-163.87	288.78	220.44	698.48	676.38	22.10	31.610		
2,800.00	2,521.42	2,886.59	2,798.92	21.59	12.81	-163.16	318.89	252.86	727.03	703.69	23.34	31.150		
2,900.00	2,597.40	2,982.04	2,883.50	22.97	13.56	-162.50	348.99	285.28	755.69	731.08	24.61	30.704		
3,000.00	2,673.38	3,077.50	2,968.08	24.34	14.33	-161.88	379.10	317.70	784.43	758.52	25.91	30.274		
3,100.00	2,749.36	3,172.95	3,052.66	25.73	15.11	-161.31	409.20	350.12	813.25	786.02	27.23	29.861		
3,200.00	2,825.33	3,268.40	3,137.24	27.11	15.90	-160.78	439.30	382.54	842.14	813.56	28.58	29.468		
3,300.00	2,901.31	3,363.86	3,221.82	28.50	16.70	-160.29	469.41	414.96	871.09	841.15	29.94	29.093		
3,400.00	2,977.29	3,459.31	3,306.40	29.90	17.50	-159.82	499.51	447.38	900.09	868.77	31.32	28.736		
3,500.00	3,053.27	3,554.76	3,390.99	31.29	18.31	-159.39	529.62	479.80	929.15	896.43	32.72	28.397		
3,600.00	3,129.24	3,650.22	3,475.57	32.69	19.12	-158.98	559.72	512.22	958.26	924.12	34.13	28.076		
3,700.00	3,205.22	3,745.67	3,560.15	34.08	19.94	-158.60	589.82	544.64	987.40	951.85	35.56	27.771		
3,800.00	3,281.20	3,841.12	3,644.73	35.48	20.76	-158.23	619.93	577.06	1,016.59	979.59	36.99	27.482		
3,900.00	3,357.18	3,936.58	3,729.31	36.88	21.58	-157.89	650.03	609.48	1,045.80	1,007.37	38.44	27.207		
4,000.00	3,433.15	4,032.03	3,813.89	38.29	22.41	-157.57	680.14	641.90	1,075.06	1,035.16	39.89	26.947		
4,100.00	3,509.13	4,127.48	3,898.47	39.69	23.24	-157.26	710.24	674.32	1,104.34	1,062.98	41.36	26.700		
4,200.00	3,585.11	4,222.93	3,983.05	41.09	24.07	-156.97	740.35	706.74	1,133.65	1,090.81	42.83	26.466		
4,300.00	3,661.08	4,318.39	4,067.63	42.50	24.90	-156.69	770.45	739.16	1,162.98	1,118.67	44.32	26.243		
4,400.00	3,737.06	4,413.84	4,152.22	43.90	25.74	-156.43	800.55	771.58	1,192.34	1,146.54	45.81	26.031		
4,500.00	3,813.04	4,509.29	4,236.80	45.31	26.57	-156.18	830.66	804.00	1,221.72	1,174.42	47.30	25.829		
4,600.00	3,889.02	4,604.75	4,321.38	46.71	27.41	-155.94	860.76	836.42	1,251.12	1,202.32	48.80	25.637		
4,700.00	3,964.99	4,700.20	4,405.96	48.12	28.25	-155.71	890.87	868.84	1,280.54	1,230.24	50.31	25.454		
4,800.00	4,040.97	4,804.35	4,490.54	49.53	29.17	-155.49	920.97	901.26	1,309.98	1,258.10	51.88	25.250		
4,900.00	4,116.95	4,908.89	4,575.12	50.94	30.09	-155.29	951.07	933.68	1,339.44	1,285.98	53.46	25.056		
5,000.00	4,192.93	4,986.56	4,659.70	52.35	30.78	-155.09	981.18	966.10	1,368.91	1,314.05	54.86	24.954		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,268.90	5,082.01	4,744.28	53.76	31.63	-154.90	1,011.28	998.52	1,398.39	1,342.01	56.38	24.802		
5,200.00	4,344.88	5,177.47	4,828.87	55.16	32.47	-154.71	1,041.39	1,030.94	1,427.89	1,369.98	57.91	24.656		
5,300.00	4,420.86	5,272.92	4,913.45	56.57	33.32	-154.54	1,071.49	1,063.36	1,457.40	1,397.95	59.44	24.517		
5,400.00	4,496.84	5,368.37	4,998.03	57.98	34.17	-154.37	1,101.60	1,095.78	1,486.92	1,425.94	60.98	24.383		
5,500.00	4,572.81	5,463.82	5,082.61	59.39	35.01	-154.21	1,131.70	1,128.20	1,516.46	1,453.93	62.52	24.255		
5,600.00	4,648.79	5,559.28	5,167.19	60.81	35.86	-154.05	1,161.80	1,160.62	1,546.00	1,481.94	64.06	24.133		
5,700.00	4,724.77	5,654.73	5,251.77	62.22	36.71	-153.90	1,191.91	1,193.04	1,575.55	1,509.95	65.61	24.015		
5,800.00	4,800.74	5,750.18	5,336.35	63.63	37.56	-153.76	1,222.01	1,225.46	1,605.12	1,537.96	67.16	23.902		
5,900.00	4,876.72	5,845.64	5,420.93	65.04	38.41	-153.62	1,252.12	1,257.88	1,634.69	1,565.99	68.71	23.793		
6,000.00	4,952.70	5,941.09	5,505.51	66.45	39.27	-153.48	1,282.22	1,290.30	1,664.27	1,594.02	70.26	23.688		
6,100.00	5,028.68	6,036.54	5,590.10	67.86	40.12	-153.35	1,312.32	1,322.72	1,693.86	1,622.05	71.81	23.587		
6,200.00	5,104.65	6,132.00	5,674.68	69.27	40.97	-153.23	1,342.43	1,355.14	1,723.46	1,650.09	73.37	23.490		
6,300.00	5,180.63	6,227.45	5,759.26	70.69	41.82	-153.11	1,372.53	1,387.56	1,753.06	1,678.14	74.93	23.397		
6,400.00	5,256.61	6,322.90	5,843.84	72.10	42.67	-152.99	1,402.64	1,419.98	1,782.68	1,706.19	76.49	23.306		
6,500.00	5,332.59	6,418.36	5,928.42	73.51	43.53	-152.88	1,432.74	1,452.40	1,812.29	1,734.24	78.05	23.219		
6,600.00	5,408.56	6,513.81	6,013.00	74.92	44.38	-152.77	1,462.84	1,484.82	1,841.92	1,762.30	79.61	23.135		
6,700.00	5,484.54	6,609.26	6,097.58	76.34	45.24	-152.66	1,492.95	1,517.24	1,871.55	1,790.37	81.18	23.054		
6,800.00	5,560.52	6,704.71	6,182.16	77.75	46.09	-152.56	1,523.05	1,549.66	1,901.18	1,818.44	82.75	22.976		
6,900.00	5,636.50	6,800.17	6,266.75	79.16	46.94	-152.46	1,553.16	1,582.08	1,930.82	1,846.51	84.32	22.900		
7,000.00	5,712.47	6,895.62	6,351.33	80.57	47.80	-152.36	1,583.26	1,614.50	1,960.47	1,874.58	85.89	22.826		
7,100.00	5,788.45	7,008.93	6,435.91	81.99	48.62	-152.27	1,613.37	1,646.92	1,990.12	1,902.54	87.59	22.722		
7,200.00	5,864.43	7,086.53	6,520.49	83.40	49.51	-152.18	1,643.47	1,679.34	2,019.78	1,930.75	89.03	22.687		
7,300.00	5,940.40	7,181.98	6,605.07	84.81	50.37	-152.09	1,673.57	1,711.76	2,049.44	1,958.84	90.60	22.620		
7,400.00	6,016.38	7,277.43	6,689.65	86.23	51.22	-152.01	1,703.68	1,744.18	2,079.10	1,986.93	92.18	22.555		
7,500.00	6,092.36	7,372.89	6,774.23	87.64	52.08	-151.92	1,733.78	1,776.60	2,108.77	2,015.02	93.75	22.493		
7,600.00	6,168.34	7,468.34	6,858.81	89.05	52.94	-151.84	1,763.89	1,809.02	2,138.44	2,043.11	95.33	22.432		
7,700.00	6,244.31	7,563.79	6,943.40	90.47	53.79	-151.76	1,793.99	1,841.44	2,168.12	2,071.21	96.91	22.373		
7,800.00	6,320.29	7,661.52	7,030.00	91.88	54.67	-151.68	1,824.79	1,874.63	2,197.80	2,099.28	98.52	22.309		
7,900.00	6,396.27	7,758.43	7,113.19	93.30	55.52	-152.24	1,852.29	1,933.26	2,225.83	2,125.95	99.88	22.286		
8,000.00	6,472.25	7,854.24	7,197.19	94.71	56.37	-153.72	1,836.55	1,985.17	2,251.43	2,152.16	99.27	22.679		
8,100.00	6,548.22	8,090.81	7,420.95	96.12	56.78	-155.45	1,798.44	2,023.92	2,276.26	2,178.44	97.82	23.270		
8,200.00	6,624.20	8,177.54	7,491.51	97.54	56.78	-157.03	1,755.90	2,050.74	2,301.92	2,205.61	96.31	23.900		
8,300.00	6,700.18	8,242.27	7,539.84	98.95	56.71	-158.34	1,716.98	2,069.07	2,329.53	2,234.52	95.02	24.517		
8,400.00	6,776.16	8,291.29	7,573.54	100.37	56.61	-159.40	1,683.78	2,081.83	2,359.73	2,265.80	93.93	25.121		
8,500.00	6,852.13	8,329.17	7,597.70	101.78	56.51	-160.24	1,656.07	2,090.97	2,392.86	2,299.85	93.01	25.728		
8,600.00	6,928.11	8,359.09	7,615.53	103.20	56.42	-160.93	1,633.02	2,097.70	2,429.06	2,336.88	92.18	26.350		
8,700.00	7,004.09	8,383.19	7,629.07	104.61	56.34	-161.50	1,613.75	2,102.81	2,468.37	2,376.95	91.41	27.002		
8,800.00	7,080.06	8,400.00	7,638.06	106.02	56.28	-161.90	1,599.95	2,106.20	2,510.75	2,420.00	90.75	27.666		
8,900.00	7,156.04	8,419.42	7,647.97	107.44	56.21	-162.36	1,583.67	2,109.93	2,556.11	2,466.18	89.94	28.420		
9,000.00	7,232.02	8,433.33	7,654.75	108.85	56.15	-162.69	1,571.80	2,112.48	2,604.37	2,515.16	89.20	29.196		
9,104.68	7,311.55	8,450.00	7,662.52	110.33	56.09	-163.10	1,557.34	2,115.40	2,657.84	2,569.53	88.32	30.094		
9,150.00	7,346.29	8,450.00	7,662.52	110.97	56.09	-171.16	1,557.34	2,115.40	2,681.86	2,593.73	88.13	30.432		
9,200.00	7,385.15	8,450.00	7,662.52	111.65	56.09	179.55	1,557.34	2,115.40	2,708.79	2,620.83	87.97	30.794		
9,250.00	7,424.29	8,467.23	7,670.13	112.31	56.02	169.70	1,542.15	2,118.25	2,735.85	2,648.43	87.42	31.295		
9,300.00	7,463.40	8,476.81	7,674.18	112.93	55.97	160.09	1,533.60	2,119.77	2,762.89	2,675.77	87.12	31.714		
9,350.00	7,502.19	8,500.00	7,683.41	113.51	55.88	150.55	1,512.61	2,123.23	2,789.72	2,703.19	86.52	32.243		
9,400.00	7,540.36	8,500.00	7,683.41	114.04	55.88	141.94	1,512.61	2,123.23	2,815.89	2,729.32	86.56	32.530		
9,450.00	7,577.62	8,500.00	7,683.41	114.53	55.88	133.95	1,512.61	2,123.23	2,841.46	2,754.80	86.66	32.789		
9,500.00	7,613.70	8,523.30	7,691.89	114.95	55.77	126.35	1,491.14	2,126.39	2,865.99	2,779.79	86.21	33.246		
9,550.00	7,648.30	8,550.00	7,700.59	115.32	55.64	119.52	1,466.11	2,129.63	2,889.55	2,803.84	85.71	33.713		
9,600.00	7,681.18	8,550.00	7,700.59	115.63	55.64	113.77	1,466.11	2,129.63	2,911.63	2,825.66	85.97	33.867		
9,650.00	7,712.08	8,550.00	7,700.59	115.88	55.64	108.70	1,466.11	2,129.63	2,932.44	2,846.13	86.30	33.979		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,700.00	7,740.76	8,578.90	7,708.77	116.08	55.50	104.07	1,438.56	2,132.66	2,951.42	2,865.51	85.90	34.357		
9,750.00	7,767.01	8,600.00	7,713.91	116.23	55.39	100.15	1,418.19	2,134.56	2,968.77	2,882.99	85.77	34.612		
9,800.00	7,790.63	8,600.00	7,713.91	116.33	55.39	96.95	1,418.19	2,134.56	2,984.24	2,897.94	86.30	34.579		
9,850.00	7,811.44	8,624.28	7,718.96	116.38	55.27	94.16	1,394.52	2,136.41	2,997.67	2,911.47	86.20	34.774		
9,900.00	7,829.28	8,650.00	7,723.29	116.38	55.14	91.88	1,369.21	2,137.97	3,009.12	2,923.01	86.12	34.943		
9,950.00	7,844.01	8,650.00	7,723.29	116.35	55.14	90.16	1,369.21	2,137.97	3,018.33	2,931.47	86.86	34.749		
10,000.00	7,855.52	8,671.45	7,726.08	116.28	55.02	88.82	1,347.97	2,138.97	3,025.34	2,938.31	87.03	34.762		
10,050.00	7,863.72	8,700.00	7,728.64	116.18	54.87	87.90	1,319.55	2,139.85	3,030.20	2,943.17	87.03	34.817		
10,100.00	7,868.56	8,700.00	7,728.64	116.06	54.87	87.41	1,319.55	2,139.85	3,032.60	2,944.61	88.00	34.463		
10,145.94	7,870.00	8,718.11	7,729.58	115.92	54.77	87.31	1,301.47	2,140.15	3,032.85	2,944.48	88.36	34.323		
10,200.00	7,870.00	8,740.83	7,730.00	115.76	54.65	87.32	1,278.75	2,140.23	3,032.33	2,943.56	88.77	34.159		
10,213.85	7,870.00	8,743.81	7,730.00	115.72	54.63	87.32	1,281.74	2,140.24	3,032.29	2,943.15	89.14	34.019		
10,300.00	7,870.00	8,824.00	7,730.00	115.46	54.21	87.32	1,195.59	2,139.95	3,032.29	2,944.07	88.23	34.370		
10,400.00	7,870.00	8,924.00	7,730.00	115.18	53.70	87.32	1,095.59	2,139.60	3,032.30	2,945.05	87.25	34.755		
10,500.00	7,870.00	9,024.00	7,730.00	114.91	53.22	87.32	995.59	2,139.26	3,032.30	2,945.90	86.41	35.093		
10,600.00	7,870.00	9,124.00	7,730.00	114.65	52.77	87.32	895.59	2,138.92	3,032.31	2,946.60	85.70	35.381		
10,700.00	7,870.00	9,224.00	7,730.00	114.41	52.34	87.32	795.59	2,138.58	3,032.31	2,947.17	85.14	35.614		
10,800.00	7,870.00	9,324.00	7,730.00	114.17	51.94	87.32	695.59	2,138.24	3,032.32	2,947.59	84.73	35.789		
10,900.00	7,870.00	9,424.00	7,730.00	113.95	51.56	87.32	595.59	2,137.90	3,032.32	2,947.87	84.46	35.903		
11,000.00	7,870.00	9,524.00	7,730.00	113.75	51.20	87.32	495.59	2,137.56	3,032.33	2,947.99	84.34	35.953		
11,100.00	7,870.00	9,624.00	7,730.00	113.55	50.87	87.32	395.59	2,137.22	3,032.34	2,947.97	84.37	35.941		
11,200.00	7,870.00	9,724.00	7,730.00	113.37	50.57	87.32	295.59	2,136.87	3,032.34	2,947.79	84.55	35.864		
11,300.00	7,870.00	9,824.00	7,730.00	113.20	50.29	87.32	195.59	2,136.53	3,032.35	2,947.47	84.88	35.726		
11,400.00	7,870.00	9,924.00	7,730.00	113.04	50.03	87.32	95.59	2,136.19	3,032.35	2,947.00	85.35	35.528		
11,500.00	7,870.00	10,024.00	7,730.00	112.89	49.80	87.32	-4.41	2,135.85	3,032.36	2,946.39	85.97	35.273		
11,600.00	7,870.00	10,124.00	7,730.00	112.76	49.61	87.32	-104.41	2,135.51	3,032.36	2,945.64	86.72	34.965		
11,700.00	7,870.00	10,224.00	7,730.00	112.64	49.44	87.32	-204.41	2,135.17	3,032.37	2,944.75	87.62	34.609		
11,800.00	7,870.00	10,324.00	7,730.00	112.53	49.32	87.32	-304.40	2,134.83	3,032.38	2,943.73	88.64	34.209		
11,900.00	7,870.00	10,424.00	7,730.00	112.44	49.26	87.32	-404.40	2,134.49	3,032.38	2,942.59	89.80	33.770		
12,000.00	7,870.00	10,524.00	7,730.00	112.36	49.26	87.32	-504.40	2,134.14	3,032.39	2,941.31	91.07	33.297		
12,100.00	7,870.00	10,624.00	7,730.00	112.29	49.35	87.32	-604.40	2,133.80	3,032.39	2,939.93	92.46	32.795		
12,200.00	7,870.00	10,724.00	7,730.00	112.24	49.57	87.32	-704.40	2,133.46	3,032.40	2,938.43	93.97	32.270		
12,300.00	7,870.00	10,824.00	7,730.00	112.20	49.92	87.32	-804.40	2,133.12	3,032.40	2,936.82	95.58	31.727		
12,400.00	7,870.00	10,924.00	7,730.00	112.17	50.45	87.32	-904.40	2,132.78	3,032.41	2,935.12	97.29	31.168		
12,500.00	7,870.00	11,024.00	7,730.00	112.16	51.13	87.32	-1,004.40	2,132.44	3,032.42	2,933.32	99.10	30.600		
12,600.00	7,870.00	11,124.00	7,730.00	112.17	51.96	87.32	-1,104.40	2,132.10	3,032.42	2,931.42	101.00	30.025		
12,700.00	7,870.00	11,224.00	7,730.00	112.19	52.90	87.32	-1,204.40	2,131.75	3,032.43	2,929.45	102.98	29.447		
12,800.00	7,870.00	11,324.00	7,730.00	112.23	53.92	87.32	-1,304.40	2,131.41	3,032.43	2,927.39	105.04	28.868		
12,900.00	7,870.00	11,424.00	7,730.00	112.28	55.02	87.32	-1,404.40	2,131.07	3,032.44	2,925.25	107.19	28.292		
13,000.00	7,870.00	11,524.00	7,730.00	112.36	56.17	87.32	-1,504.40	2,130.73	3,032.44	2,923.05	109.40	27.720		
13,100.00	7,870.00	11,624.00	7,730.00	112.45	57.36	87.32	-1,604.40	2,130.39	3,032.45	2,920.77	111.68	27.154		
13,200.00	7,870.00	11,724.00	7,730.00	112.56	58.60	87.32	-1,704.40	2,130.05	3,032.45	2,918.44	114.02	26.596		
13,300.00	7,870.00	11,824.00	7,730.00	112.68	59.86	87.32	-1,804.40	2,129.71	3,032.46	2,916.04	116.42	26.047		
13,400.00	7,870.00	11,924.00	7,730.00	112.83	61.15	87.32	-1,904.40	2,129.37	3,032.47	2,913.59	118.88	25.509		
13,500.00	7,870.00	12,024.00	7,730.00	113.00	62.47	87.32	-2,004.39	2,129.02	3,032.47	2,911.08	121.39	24.981		
13,600.00	7,870.00	12,124.00	7,730.00	113.19	63.81	87.32	-2,104.39	2,128.68	3,032.48	2,908.53	123.95	24.465		
13,700.00	7,870.00	12,224.00	7,730.00	113.40	65.18	87.32	-2,204.39	2,128.34	3,032.48	2,905.93	126.56	23.962		
13,800.00	7,870.00	12,324.00	7,730.00	113.63	66.56	87.32	-2,304.39	2,128.00	3,032.49	2,903.28	129.21	23.470		
13,900.00	7,870.00	12,424.00	7,730.00	113.89	67.96	87.32	-2,404.39	2,127.66	3,032.49	2,900.60	131.90	22.991		
14,000.00	7,870.00	12,524.00	7,730.00	114.18	69.37	87.32	-2,504.39	2,127.32	3,032.50	2,897.87	134.63	22.525		
14,100.00	7,870.00	12,624.00	7,730.00	114.48	70.80	87.32	-2,604.39	2,126.98	3,032.51	2,895.11	137.39	22.072		
14,200.00	7,870.00	12,724.00	7,730.00	114.82	72.24	87.32	-2,704.39	2,126.64	3,032.51	2,892.32	140.19	21.631		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,300.00	7,870.00	12,824.00	7,730.00	115.18	73.70	87.32	-2,804.39	2,126.29	3,032.52	2,889.49	143.02	21.203		
14,400.00	7,870.00	12,924.00	7,730.00	115.57	75.17	87.32	-2,904.39	2,125.95	3,032.52	2,886.64	145.89	20.787		
14,500.00	7,870.00	13,024.00	7,730.00	115.99	76.65	87.32	-3,004.39	2,125.61	3,032.53	2,883.75	148.78	20.383		
14,600.00	7,870.00	13,124.00	7,730.00	116.44	78.14	87.32	-3,104.39	2,125.27	3,032.53	2,880.84	151.70	19.991		
14,700.00	7,870.00	13,224.00	7,730.00	116.92	79.64	87.32	-3,204.39	2,124.93	3,032.54	2,877.90	154.64	19.611		
14,800.00	7,870.00	13,324.00	7,730.00	117.44	81.15	87.32	-3,304.39	2,124.59	3,032.55	2,874.94	157.61	19.241		
14,900.00	7,870.00	13,424.00	7,730.00	117.98	82.67	87.32	-3,404.39	2,124.25	3,032.55	2,871.96	160.60	18.883		
15,000.00	7,870.00	13,524.00	7,730.00	118.56	84.20	87.32	-3,504.39	2,123.90	3,032.56	2,868.95	163.61	18.536		
15,100.00	7,870.00	13,624.00	7,730.00	119.17	85.74	87.32	-3,604.39	2,123.56	3,032.56	2,865.92	166.64	18.198		
15,200.00	7,870.00	13,724.00	7,730.00	119.81	87.29	87.32	-3,704.38	2,123.22	3,032.57	2,862.88	169.69	17.871		
15,300.00	7,870.00	13,824.00	7,730.00	120.48	88.84	87.32	-3,804.38	2,122.88	3,032.57	2,859.81	172.76	17.554		
15,400.00	7,870.00	13,924.00	7,730.00	121.19	90.40	87.32	-3,904.38	2,122.54	3,032.58	2,856.73	175.85	17.246		
15,500.00	7,870.00	14,024.00	7,730.00	121.93	91.97	87.32	-4,004.38	2,122.20	3,032.58	2,853.64	178.95	16.947		
15,600.00	7,870.00	14,124.00	7,730.00	122.71	93.54	87.32	-4,104.38	2,121.86	3,032.59	2,850.52	182.07	16.657		
15,700.00	7,870.00	14,224.00	7,730.00	123.52	95.12	87.32	-4,204.38	2,121.52	3,032.60	2,847.40	185.20	16.375		
15,800.00	7,870.00	14,324.00	7,730.00	124.36	96.71	87.32	-4,304.38	2,121.17	3,032.60	2,844.26	188.35	16.101		
15,900.00	7,870.00	14,424.00	7,730.00	125.23	98.30	87.32	-4,404.38	2,120.83	3,032.61	2,841.10	191.51	15.835		
16,000.00	7,870.00	14,524.00	7,730.00	126.14	99.89	87.32	-4,504.38	2,120.49	3,032.61	2,837.93	194.68	15.577		
16,100.00	7,870.00	14,624.00	7,730.00	127.07	101.50	87.32	-4,604.38	2,120.15	3,032.62	2,834.75	197.87	15.327		
16,200.00	7,870.00	14,724.00	7,730.00	128.04	103.10	87.32	-4,704.38	2,119.81	3,032.62	2,831.56	201.06	15.083		
16,300.00	7,870.00	14,824.00	7,730.00	129.04	104.71	87.32	-4,804.38	2,119.47	3,032.63	2,828.36	204.27	14.846		
16,400.00	7,870.00	14,924.00	7,730.00	130.06	106.33	87.32	-4,904.38	2,119.13	3,032.64	2,825.15	207.49	14.616		
16,500.00	7,870.00	15,024.00	7,730.00	131.11	107.95	87.32	-5,004.38	2,118.78	3,032.64	2,821.92	210.72	14.392		
16,600.00	7,870.00	15,124.00	7,730.00	132.19	109.57	87.32	-5,104.38	2,118.44	3,032.65	2,818.69	213.95	14.174		
16,700.00	7,870.00	15,224.00	7,730.00	133.29	111.20	87.32	-5,204.38	2,118.10	3,032.65	2,815.45	217.20	13.962		
16,800.00	7,870.00	15,324.00	7,730.00	134.42	112.83	87.32	-5,304.38	2,117.76	3,032.66	2,812.20	220.46	13.756		
16,900.00	7,870.00	15,424.00	7,730.00	135.57	114.47	87.32	-5,404.37	2,117.42	3,032.66	2,808.94	223.72	13.556		
17,000.00	7,870.00	15,524.00	7,730.00	136.75	116.11	87.32	-5,504.37	2,117.08	3,032.67	2,805.68	226.99	13.360		
17,100.00	7,870.00	15,624.00	7,730.00	137.94	117.75	87.32	-5,604.37	2,116.74	3,032.68	2,802.40	230.27	13.170		
17,200.00	7,870.00	15,724.00	7,730.00	139.16	119.40	87.32	-5,704.37	2,116.40	3,032.68	2,799.12	233.56	12.985		
17,300.00	7,870.00	15,824.00	7,730.00	140.39	121.05	87.32	-5,804.37	2,116.05	3,032.69	2,795.83	236.85	12.804		
17,400.00	7,870.00	15,924.00	7,730.00	141.65	122.70	87.32	-5,904.37	2,115.71	3,032.69	2,792.54	240.15	12.628		
17,500.00	7,870.00	16,024.00	7,730.00	142.92	124.35	87.32	-6,004.37	2,115.37	3,032.70	2,789.24	243.46	12.457		
17,600.00	7,870.00	16,124.00	7,730.00	144.21	126.01	87.32	-6,104.37	2,115.03	3,032.70	2,785.93	246.77	12.289		
17,700.00	7,870.00	16,224.00	7,730.00	145.52	127.67	87.32	-6,204.37	2,114.69	3,032.71	2,782.62	250.09	12.126		
17,800.00	7,870.00	16,324.00	7,730.00	146.84	129.33	87.32	-6,304.37	2,114.35	3,032.71	2,779.30	253.42	11.967		
17,900.00	7,870.00	16,424.00	7,730.00	148.18	131.00	87.32	-6,404.37	2,114.01	3,032.72	2,775.97	256.75	11.812		
18,000.00	7,870.00	16,524.00	7,730.00	149.54	132.67	87.32	-6,504.37	2,113.67	3,032.73	2,772.64	260.09	11.661		
18,100.00	7,870.00	16,624.00	7,730.00	150.90	134.34	87.32	-6,604.37	2,113.32	3,032.73	2,769.31	263.43	11.513		
18,200.00	7,870.00	16,724.00	7,730.00	152.28	136.01	87.32	-6,704.37	2,112.98	3,032.74	2,765.97	266.77	11.368		
18,300.00	7,870.00	16,824.00	7,730.00	153.67	137.69	87.32	-6,804.37	2,112.64	3,032.74	2,762.62	270.12	11.227		
18,400.00	7,870.00	16,924.00	7,730.00	155.07	139.36	87.32	-6,904.37	2,112.30	3,032.75	2,759.27	273.48	11.090		
18,500.00	7,870.00	17,024.00	7,730.00	156.49	141.04	87.32	-7,004.37	2,111.96	3,032.75	2,755.92	276.84	10.955		
18,600.00	7,870.00	17,124.00	7,730.00	157.91	142.72	87.32	-7,104.37	2,111.62	3,032.76	2,752.56	280.20	10.824		
18,700.00	7,870.00	17,224.00	7,730.00	159.35	144.41	87.32	-7,204.36	2,111.28	3,032.77	2,749.20	283.57	10.695		
18,800.00	7,870.00	17,324.00	7,730.00	160.79	146.09	87.32	-7,304.36	2,110.93	3,032.77	2,745.83	286.94	10.569		
18,900.00	7,870.00	17,424.00	7,730.00	162.25	147.78	87.32	-7,404.36	2,110.59	3,032.78	2,742.46	290.32	10.447		
19,000.00	7,870.00	17,524.00	7,730.00	163.71	149.46	87.32	-7,504.36	2,110.25	3,032.78	2,739.09	293.69	10.326		
19,100.00	7,870.00	17,624.00	7,730.00	165.18	151.15	87.32	-7,604.36	2,109.91	3,032.79	2,735.71	297.08	10.209		
19,200.00	7,870.00	17,724.00	7,730.00	166.66	152.85	87.32	-7,704.36	2,109.57	3,032.79	2,732.33	300.46	10.094		
19,300.00	7,870.00	17,824.00	7,730.00	168.15	154.54	87.32	-7,804.36	2,109.23	3,032.80	2,728.95	303.85	9.981		
19,400.00	7,870.00	17,924.00	7,730.00	169.65	156.23	87.32	-7,904.36	2,108.89	3,032.81	2,725.56	307.24	9.871		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,500.00	7,870.00	18,024.00	7,730.00	171.15	157.93	87.32	-8,004.36	2,108.55	3,032.81	2,722.17	310.64	9.763	
19,600.00	7,870.00	18,124.00	7,730.00	172.66	159.63	87.32	-8,104.36	2,108.20	3,032.82	2,718.78	314.04	9.657	
19,700.00	7,870.00	18,224.00	7,730.00	174.18	161.33	87.32	-8,204.36	2,107.86	3,032.82	2,715.38	317.44	9.554	
19,800.00	7,870.00	18,324.00	7,730.00	175.70	163.03	87.32	-8,304.36	2,107.52	3,032.83	2,711.98	320.84	9.453	
19,889.26	7,870.00	18,413.25	7,730.00	177.06	164.54	87.32	-8,393.61	2,107.22	3,032.83	2,708.95	323.89	9.364 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	-89.74	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 CC, ES		
400.00	399.98	401.98	401.98	1.21	1.22	-158.33	0.36	-80.08	81.70	79.28	2.42	33.723		
500.00	499.84	501.84	501.84	1.56	1.57	-159.58	0.36	-80.08	86.59	83.45	3.14	27.597		
600.00	599.45	601.45	601.45	1.93	1.93	-161.36	0.36	-80.08	94.80	90.95	3.86	24.585		
700.00	698.70	700.70	700.70	2.32	2.29	-163.39	0.36	-80.08	106.43	101.85	4.58	23.253		
800.00	797.47	800.53	799.47	2.72	2.65	-165.42	0.36	-80.08	121.51	116.21	5.30	22.912		
900.00	895.62	902.38	897.62	3.16	3.01	-167.30	0.36	-80.08	140.08	134.04	6.04	23.191		
1,000.00	993.06	1,004.94	995.06	3.63	3.38	-168.96	0.36	-80.08	162.11	155.33	6.78	23.902		
1,100.00	1,089.64	1,091.64	1,091.64	4.14	3.69	-170.39	0.36	-80.08	187.61	180.13	7.47	25.111		
1,200.00	1,185.27	1,193.65	1,193.63	4.70	4.05	-171.49	1.33	-78.89	215.22	207.00	8.22	26.195		
1,300.00	1,279.82	1,297.17	1,297.01	5.31	4.42	-172.08	4.63	-74.80	243.09	234.12	8.97	27.105		
1,400.00	1,373.17	1,401.69	1,401.13	5.97	4.79	-172.31	10.34	-67.74	271.12	261.39	9.73	27.866		
1,500.00	1,465.21	1,507.21	1,505.84	6.69	5.18	-172.27	18.52	-57.61	299.27	288.77	10.50	28.498		
1,600.00	1,555.84	1,613.76	1,611.01	7.47	5.59	-172.01	29.24	-44.34	327.51	316.22	11.29	29.013		
1,700.00	1,644.94	1,721.32	1,716.46	8.31	6.02	-171.60	42.54	-27.87	355.81	343.72	12.09	29.429		
1,800.00	1,732.39	1,829.90	1,822.03	9.23	6.48	-171.05	58.48	-8.14	384.14	371.23	12.91	29.747		
1,900.00	1,818.11	1,939.50	1,927.54	10.21	6.98	-170.39	77.11	14.92	412.50	398.74	13.76	29.971		
2,000.00	1,901.97	2,050.13	2,032.81	11.26	7.53	-169.64	98.47	41.37	440.88	426.23	14.65	30.103		
2,100.00	1,983.88	2,161.79	2,137.64	12.38	8.14	-168.82	122.60	71.24	469.25	453.68	15.57	30.141		
2,200.00	2,063.74	2,274.46	2,241.84	13.57	8.81	-167.92	149.54	104.58	497.61	481.07	16.54	30.085		
2,300.00	2,141.45	2,388.15	2,345.18	14.84	9.56	-166.96	179.31	141.44	525.95	508.38	17.57	29.932		
2,327.78	2,162.65	2,419.92	2,373.71	15.21	9.78	-166.69	188.08	152.30	533.82	515.95	17.87	29.868		
2,400.00	2,217.51	2,503.12	2,447.69	16.17	10.38	-166.03	212.00	181.91	553.42	534.74	18.67	29.634		
2,500.00	2,293.49	2,614.95	2,545.37	17.51	11.26	-165.04	246.22	224.26	577.79	557.93	19.86	29.091		
2,600.00	2,369.47	2,711.78	2,629.37	18.86	12.06	-164.19	276.49	261.73	601.30	580.22	21.09	28.515		
2,700.00	2,445.45	2,808.61	2,713.36	20.22	12.88	-163.41	306.76	299.21	624.93	602.58	22.35	27.959		
2,800.00	2,521.42	2,905.44	2,797.36	21.59	13.72	-162.69	337.03	336.68	648.66	625.01	23.65	27.427		
2,900.00	2,597.40	3,002.27	2,881.36	22.97	14.57	-162.02	367.30	374.15	672.47	647.49	24.98	26.918		
3,000.00	2,673.38	3,100.91	2,965.35	24.34	15.45	-161.39	397.57	411.62	696.37	670.02	26.35	26.425		
3,100.00	2,749.36	3,204.08	3,049.35	25.73	16.38	-160.80	427.84	449.09	720.35	692.57	27.78	25.933		
3,200.00	2,825.33	3,292.75	3,133.34	27.11	17.19	-160.26	458.11	486.57	744.39	715.25	29.14	25.549		
3,300.00	2,901.31	3,389.58	3,217.34	28.50	18.08	-159.74	488.38	524.04	768.49	737.92	30.57	25.142		
3,400.00	2,977.29	3,486.41	3,301.33	29.90	18.97	-159.26	518.65	561.51	792.64	760.63	32.01	24.759		
3,500.00	3,053.27	3,583.24	3,385.33	31.29	19.87	-158.81	548.92	598.98	816.85	783.37	33.48	24.398		
3,600.00	3,129.24	3,680.06	3,469.32	32.69	20.77	-158.38	579.19	636.45	841.10	806.14	34.96	24.057		
3,700.00	3,205.22	3,776.89	3,553.32	34.08	21.68	-157.98	609.46	673.93	865.39	828.93	36.46	23.736		
3,800.00	3,281.20	3,873.72	3,637.32	35.48	22.59	-157.59	639.73	711.40	889.72	851.76	37.97	23.434		
3,900.00	3,357.18	3,970.55	3,721.31	36.88	23.50	-157.23	670.00	748.87	914.09	874.60	39.49	23.149		
4,000.00	3,433.15	4,067.38	3,805.31	38.29	24.42	-156.89	700.27	786.34	938.49	897.47	41.02	22.879		
4,100.00	3,509.13	4,164.20	3,889.30	39.69	25.34	-156.56	730.54	823.81	962.92	920.36	42.56	22.624		
4,200.00	3,585.11	4,261.03	3,973.30	41.09	26.26	-156.25	760.81	861.29	987.38	943.26	44.11	22.383		
4,300.00	3,661.08	4,357.86	4,057.29	42.50	27.19	-155.96	791.08	898.76	1,011.86	966.19	45.67	22.155		
4,400.00	3,737.06	4,454.69	4,141.29	43.90	28.11	-155.68	821.35	936.23	1,036.37	989.13	47.24	21.939		
4,500.00	3,813.04	4,551.52	4,225.28	45.31	29.04	-155.41	851.62	973.70	1,060.90	1,012.08	48.81	21.734		
4,600.00	3,889.02	4,648.34	4,309.28	46.71	29.97	-155.16	881.89	1,011.17	1,085.45	1,035.05	50.39	21.539		
4,700.00	3,964.99	4,745.17	4,393.28	48.12	30.90	-154.91	912.16	1,048.64	1,110.02	1,058.04	51.98	21.354		
4,800.00	4,040.97	4,842.00	4,477.27	49.53	31.83	-154.68	942.43	1,086.12	1,134.61	1,081.03	53.57	21.178		
4,900.00	4,116.95	4,938.83	4,561.27	50.94	32.76	-154.45	972.70	1,123.59	1,159.21	1,104.04	55.17	21.011		
5,000.00	4,192.93	5,035.66	4,645.26	52.35	33.69	-154.24	1,002.97	1,161.06	1,183.83	1,127.06	56.78	20.851		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,268.90	5,132.48	4,729.26	53.76	34.63	-154.03	1,033.24	1,198.53	1,208.47	1,150.08	58.38	20.699		
5,200.00	4,344.88	5,229.31	4,813.25	55.16	35.56	-153.83	1,063.51	1,236.00	1,233.12	1,173.12	60.00	20.553		
5,300.00	4,420.86	5,326.14	4,897.25	56.57	36.50	-153.64	1,093.78	1,273.48	1,257.78	1,196.17	61.61	20.414		
5,400.00	4,496.84	5,422.97	4,981.24	57.98	37.43	-153.46	1,124.05	1,310.95	1,282.46	1,219.22	63.23	20.281		
5,500.00	4,572.81	5,519.80	5,065.24	59.39	38.37	-153.29	1,154.32	1,348.42	1,307.14	1,242.29	64.86	20.154		
5,600.00	4,648.79	5,616.63	5,149.24	60.81	39.31	-153.12	1,184.59	1,385.89	1,331.84	1,265.36	66.48	20.033		
5,700.00	4,724.77	5,713.45	5,233.23	62.22	40.25	-152.95	1,214.86	1,423.36	1,356.55	1,288.44	68.11	19.916		
5,800.00	4,800.74	5,810.28	5,317.23	63.63	41.19	-152.80	1,245.13	1,460.84	1,381.27	1,311.52	69.75	19.804		
5,900.00	4,876.72	5,907.11	5,401.22	65.04	42.13	-152.64	1,275.40	1,498.31	1,406.00	1,334.62	71.38	19.697		
6,000.00	4,952.70	6,003.94	5,485.22	66.45	43.07	-152.50	1,305.67	1,535.78	1,430.74	1,357.72	73.02	19.593		
6,100.00	5,028.68	6,100.77	5,569.21	67.86	44.01	-152.36	1,335.94	1,573.25	1,455.48	1,380.82	74.66	19.494		
6,200.00	5,104.65	6,197.59	5,653.21	69.27	44.95	-152.22	1,366.21	1,610.72	1,480.24	1,403.93	76.31	19.399		
6,300.00	5,180.63	6,305.58	5,737.20	70.69	46.00	-152.09	1,396.48	1,648.19	1,505.00	1,426.97	78.03	19.286		
6,400.00	5,256.61	6,408.75	5,821.20	72.10	47.00	-151.96	1,426.75	1,685.67	1,529.77	1,450.04	79.73	19.187		
6,500.00	5,332.59	6,488.08	5,905.20	73.51	47.77	-151.84	1,457.02	1,723.14	1,554.55	1,473.30	81.25	19.133		
6,600.00	5,408.56	6,584.91	5,989.19	74.92	48.71	-151.72	1,487.29	1,760.61	1,579.33	1,496.43	82.90	19.051		
6,700.00	5,484.54	6,681.73	6,073.19	76.34	49.66	-151.60	1,517.56	1,798.08	1,604.12	1,519.56	84.56	18.971		
6,800.00	5,560.52	6,778.56	6,157.18	77.75	50.60	-151.49	1,547.83	1,835.55	1,628.91	1,542.70	86.21	18.895		
6,900.00	5,636.50	6,875.39	6,241.18	79.16	51.54	-151.38	1,578.10	1,873.03	1,653.71	1,565.85	87.87	18.821		
7,000.00	5,712.47	6,972.22	6,325.17	80.57	52.49	-151.27	1,608.37	1,910.50	1,678.52	1,589.00	89.53	18.749		
7,100.00	5,788.45	7,069.05	6,409.17	81.99	53.43	-151.17	1,638.64	1,947.97	1,703.33	1,612.15	91.19	18.680		
7,200.00	5,864.43	7,165.87	6,493.16	83.40	54.37	-151.07	1,668.91	1,985.44	1,728.15	1,635.30	92.85	18.613		
7,300.00	5,940.40	7,262.70	6,577.16	84.81	55.32	-150.97	1,699.18	2,022.91	1,752.97	1,658.46	94.51	18.548		
7,400.00	6,016.38	7,359.53	6,661.16	86.23	56.26	-150.88	1,729.45	2,060.39	1,777.80	1,681.62	96.17	18.485		
7,500.00	6,092.36	7,456.36	6,745.15	87.64	57.21	-150.78	1,759.72	2,097.86	1,802.63	1,704.79	97.84	18.424		
7,600.00	6,168.34	7,553.19	6,829.15	89.05	58.15	-150.69	1,789.99	2,135.33	1,827.46	1,727.96	99.51	18.365		
7,700.00	6,244.31	7,650.02	6,913.14	90.47	59.10	-150.61	1,820.26	2,172.80	1,852.30	1,751.13	101.17	18.308		
7,800.00	6,320.29	7,746.86	7,000.26	91.88	60.50	-150.57	1,856.21	2,233.93	1,876.16	1,773.22	102.94	18.226		
7,900.00	6,396.27	7,843.69	7,088.25	93.30	61.55	-150.53	1,892.26	2,302.34	1,896.23	1,793.98	104.75	18.145		
8,000.00	6,472.25	7,940.52	7,176.24	94.71	62.59	-150.49	1,928.31	2,370.75	1,916.36	1,814.24	106.58	18.064		
8,100.00	6,548.22	8,037.35	7,263.23	96.12	63.63	-150.45	1,964.36	2,439.16	1,936.49	1,835.02	108.45	17.983		
8,200.00	6,624.20	8,134.16	7,350.22	97.54	64.67	-150.41	1,999.41	2,507.57	1,957.62	1,855.77	110.32	17.902		
8,300.00	6,700.18	8,231.00	7,437.21	98.95	65.71	-150.37	2,034.46	2,575.98	1,977.61	1,882.88	112.20	17.821		
8,400.00	6,776.16	8,327.84	7,524.20	100.37	66.75	-150.33	2,069.51	2,644.39	2,000.13	1,911.57	114.08	17.740		
8,500.00	6,852.13	8,424.68	7,611.19	101.78	67.79	-150.29	2,104.56	2,713.32	2,036.46	1,943.94	115.95	17.659		
8,600.00	6,928.11	8,521.52	7,698.18	103.20	68.83	-150.25	2,139.61	2,782.25	2,071.67	1,980.12	117.82	17.578		
8,700.00	7,004.09	8,618.36	7,785.17	104.61	69.87	-150.21	2,174.66	2,851.18	2,110.68	2,020.08	119.70	17.497		
8,800.00	7,080.06	8,715.20	7,872.16	106.02	70.91	-150.17	2,209.71	2,920.11	2,153.40	2,063.54	121.57	17.416		
8,900.00	7,156.04	8,812.04	7,959.15	107.44	71.95	-150.13	2,244.76	2,989.04	2,196.62	2,110.93	123.45	17.335		
9,000.00	7,232.02	8,908.88	8,046.14	108.85	72.99	-150.09	2,279.81	3,057.97	2,249.21	2,161.51	125.32	17.254		
9,104.68	7,311.55	9,005.72	8,133.13	110.33	74.03	-150.05	2,314.86	3,126.90	2,304.55	2,218.10	127.20	17.173		
9,150.00	7,346.29	9,102.56	8,220.12	111.74	75.07	-150.01	2,349.91	3,195.83	2,359.42	2,273.29	129.08	17.092		
9,200.00	7,385.15	9,200.00	8,307.11	113.15	76.11	-150.00	2,384.96	3,264.76	2,414.30	2,328.30	130.95	17.011		
9,250.00	7,424.29	9,297.84	8,394.10	114.56	77.15	-150.00	2,419.91	3,329.69	2,469.27	2,383.37	132.83	16.930		
9,300.00	7,463.40	9,395.68	8,481.09	115.97	78.19	-150.00	2,454.96	3,394.62	2,524.24	2,438.34	134.70	16.849		
9,350.00	7,502.19	9,492.52	8,568.08	117.38	79.23	-150.00	2,489.91	3,459.55	2,579.21	2,493.31	136.58	16.768		
9,400.00	7,540.36	9,589.36	8,655.07	118.79	80.27	-150.00	2,524.96	3,524.48	2,634.18	2,548.28	138.45	16.687		
9,450.00	7,577.62	9,686.20	8,742.06	120.20	81.31	-150.00	2,559.91	3,589.41	2,689.15	2,603.25	140.33	16.606		
9,500.00	7,613.70	9,783.04	8,829.05	121.61	82.35	-150.00	2,594.96	3,654.34	2,744.12	2,658.32	142.20	16.525		
9,550.00	7,648.30	9,879.88	8,916.04	123.02	83.39	-150.00	2,629.91	3,719.27	2,799.09	2,713.39	144.08	16.444		
9,600.00	7,681.18	9,976.72	9,003.03	124.43	84.43	-150.00	2,664.96	3,784.20	2,854.06	2,768.46	145.95	16.363		
9,650.00	7,712.08	10,073.56	9,090.02	125.84	85.47	-150.00	2,699.91	3,849.13	2,909.03	2,823.53	147.83	16.282		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,700.00	7,740.76	8,615.49	7,611.93	116.08	61.00	101.58	1,434.95	2,482.40	2,607.29	2,523.61	83.68	31.159		
9,750.00	7,767.01	8,629.52	7,615.12	116.23	60.94	97.70	1,421.36	2,483.77	2,625.06	2,541.27	83.79	31.328		
9,800.00	7,790.63	8,650.00	7,619.23	116.33	60.84	94.38	1,401.37	2,485.53	2,640.92	2,557.14	83.78	31.524		
9,850.00	7,811.44	8,650.00	7,619.23	116.38	60.84	91.71	1,401.37	2,485.53	2,654.74	2,570.21	84.52	31.408		
9,900.00	7,829.28	8,673.16	7,623.08	116.38	60.73	89.43	1,378.59	2,487.17	2,666.36	2,581.78	84.58	31.524		
9,950.00	7,844.01	8,700.00	7,626.48	116.35	60.60	87.63	1,352.01	2,488.59	2,675.91	2,591.33	84.58	31.639		
10,000.00	7,855.52	8,700.00	7,626.48	116.28	60.60	86.35	1,352.01	2,488.59	2,683.02	2,597.42	85.61	31.341		
10,050.00	7,863.72	8,718.25	7,628.15	116.18	60.51	85.44	1,333.85	2,489.27	2,687.90	2,601.83	86.07	31.229		
10,100.00	7,868.56	8,733.44	7,629.13	116.06	60.43	84.94	1,318.70	2,489.66	2,690.44	2,603.72	86.72	31.024		
10,145.94	7,870.00	8,750.00	7,629.78	115.92	60.35	84.83	1,302.15	2,489.89	2,690.70	2,603.42	87.28	30.828		
10,200.00	7,870.00	8,766.45	7,630.00	115.76	60.27	84.84	1,285.71	2,489.93	2,690.20	2,602.11	88.10	30.537		
10,205.21	7,870.00	8,769.80	7,630.00	115.74	60.25	84.84	1,289.06	2,489.95	2,690.19	2,601.86	88.33	30.456		
10,300.00	7,870.00	8,857.88	7,630.00	115.46	59.81	84.84	1,194.27	2,489.63	2,690.19	2,602.91	87.28	30.822		
10,400.00	7,870.00	8,957.88	7,630.00	115.18	59.34	84.84	1,094.27	2,489.29	2,690.19	2,603.94	86.25	31.190		
10,500.00	7,870.00	9,057.88	7,630.00	114.91	58.89	84.84	994.27	2,488.95	2,690.19	2,604.84	85.35	31.518		
10,600.00	7,870.00	9,157.88	7,630.00	114.65	58.47	84.84	894.27	2,488.62	2,690.19	2,605.59	84.60	31.800		
10,700.00	7,870.00	9,257.88	7,630.00	114.41	58.07	84.84	794.27	2,488.28	2,690.19	2,606.21	83.98	32.033		
10,800.00	7,870.00	9,357.88	7,630.00	114.17	57.69	84.84	694.27	2,487.94	2,690.19	2,606.68	83.51	32.212		
10,900.00	7,870.00	9,457.88	7,630.00	113.95	57.33	84.84	594.28	2,487.61	2,690.19	2,607.00	83.19	32.337		
11,000.00	7,870.00	9,557.88	7,630.00	113.75	57.00	84.84	494.28	2,487.27	2,690.20	2,607.17	83.02	32.404		
11,100.00	7,870.00	9,657.88	7,630.00	113.55	56.70	84.84	394.28	2,486.93	2,690.20	2,607.20	83.00	32.412		
11,200.00	7,870.00	9,757.88	7,630.00	113.37	56.41	84.84	294.28	2,486.60	2,690.20	2,607.07	83.13	32.361		
11,300.00	7,870.00	9,857.88	7,630.00	113.20	56.15	84.84	194.28	2,486.26	2,690.20	2,606.79	83.41	32.253		
11,400.00	7,870.00	9,957.88	7,630.00	113.04	55.91	84.84	94.28	2,485.92	2,690.20	2,606.36	83.84	32.089		
11,500.00	7,870.00	10,057.88	7,630.00	112.89	55.70	84.84	-5.72	2,485.59	2,690.20	2,605.79	84.41	31.871		
11,600.00	7,870.00	10,157.88	7,630.00	112.76	55.52	84.84	-105.72	2,485.25	2,690.20	2,605.08	85.13	31.603		
11,700.00	7,870.00	10,257.88	7,630.00	112.64	55.37	84.84	-205.72	2,484.91	2,690.20	2,604.22	85.98	31.289		
11,800.00	7,870.00	10,357.88	7,630.00	112.53	55.25	84.84	-305.72	2,484.57	2,690.20	2,603.24	86.97	30.933		
11,900.00	7,870.00	10,457.88	7,630.00	112.44	55.17	84.84	-405.72	2,484.24	2,690.21	2,602.12	88.09	30.540		
12,000.00	7,870.00	10,557.88	7,630.00	112.36	55.14	84.84	-505.72	2,483.90	2,690.21	2,600.88	89.33	30.115		
12,100.00	7,870.00	10,657.88	7,630.00	112.29	55.15	84.84	-605.72	2,483.56	2,690.21	2,599.51	90.70	29.662		
12,200.00	7,870.00	10,757.88	7,630.00	112.24	55.23	84.84	-705.72	2,483.23	2,690.21	2,598.04	92.17	29.186		
12,300.00	7,870.00	10,857.88	7,630.00	112.20	55.38	84.84	-805.72	2,482.89	2,690.21	2,596.45	93.76	28.693		
12,400.00	7,870.00	10,957.88	7,630.00	112.17	55.61	84.84	-905.72	2,482.55	2,690.21	2,594.76	95.45	28.185		
12,500.00	7,870.00	11,057.88	7,630.00	112.16	55.94	84.84	-1,005.72	2,482.22	2,690.21	2,592.98	97.24	27.666		
12,600.00	7,870.00	11,157.88	7,630.00	112.17	56.38	84.84	-1,105.72	2,481.88	2,690.21	2,591.10	99.12	27.142		
12,700.00	7,870.00	11,257.88	7,630.00	112.19	56.93	84.84	-1,205.71	2,481.54	2,690.21	2,589.13	101.09	26.613		
12,800.00	7,870.00	11,357.88	7,630.00	112.23	57.59	84.84	-1,305.71	2,481.21	2,690.22	2,587.08	103.14	26.084		
12,900.00	7,870.00	11,457.88	7,630.00	112.28	58.36	84.84	-1,405.71	2,480.87	2,690.22	2,584.95	105.26	25.557		
13,000.00	7,870.00	11,557.88	7,630.00	112.36	59.23	84.84	-1,505.71	2,480.53	2,690.22	2,582.75	107.46	25.034		
13,100.00	7,870.00	11,657.88	7,630.00	112.45	60.19	84.84	-1,605.71	2,480.20	2,690.22	2,580.49	109.73	24.516		
13,200.00	7,870.00	11,757.88	7,630.00	112.56	61.22	84.84	-1,705.71	2,479.86	2,690.22	2,578.15	112.07	24.006		
13,300.00	7,870.00	11,857.88	7,630.00	112.68	62.31	84.84	-1,805.71	2,479.52	2,690.22	2,575.76	114.46	23.503		
13,400.00	7,870.00	11,957.88	7,630.00	112.83	63.45	84.84	-1,905.71	2,479.19	2,690.22	2,573.31	116.91	23.011		
13,500.00	7,870.00	12,057.88	7,630.00	113.00	64.65	84.84	-2,005.71	2,478.85	2,690.22	2,570.81	119.42	22.528		
13,600.00	7,870.00	12,157.88	7,630.00	113.19	65.88	84.84	-2,105.71	2,478.51	2,690.23	2,568.26	121.97	22.057		
13,700.00	7,870.00	12,257.88	7,630.00	113.40	67.14	84.84	-2,205.71	2,478.18	2,690.23	2,565.66	124.57	21.596		
13,800.00	7,870.00	12,357.88	7,630.00	113.63	68.44	84.84	-2,305.71	2,477.84	2,690.23	2,563.01	127.22	21.147		
13,900.00	7,870.00	12,457.88	7,630.00	113.89	69.76	84.84	-2,405.71	2,477.50	2,690.23	2,560.33	129.90	20.710		
14,000.00	7,870.00	12,557.88	7,630.00	114.18	71.11	84.84	-2,505.71	2,477.17	2,690.23	2,557.60	132.63	20.284		
14,100.00	7,870.00	12,657.88	7,630.00	114.48	72.48	84.84	-2,605.71	2,476.83	2,690.23	2,554.84	135.39	19.870		
14,200.00	7,870.00	12,757.88	7,630.00	114.82	73.86	84.84	-2,705.71	2,476.49	2,690.23	2,552.04	138.19	19.468		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1D-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,300.00	7,870.00	12,857.88	7,630.00	115.18	75.27	84.84	-2,805.71	2,476.16	2,690.23	2,549.22	141.02	19.078		
14,400.00	7,870.00	12,957.88	7,630.00	115.57	76.69	84.84	-2,905.71	2,475.82	2,690.23	2,546.36	143.88	18.698		
14,500.00	7,870.00	13,057.88	7,630.00	115.99	78.13	84.84	-3,005.70	2,475.48	2,690.24	2,543.47	146.76	18.330		
14,600.00	7,870.00	13,157.88	7,630.00	116.44	79.58	84.84	-3,105.70	2,475.15	2,690.24	2,540.56	149.68	17.973		
14,700.00	7,870.00	13,257.88	7,630.00	116.92	81.04	84.84	-3,205.70	2,474.81	2,690.24	2,537.62	152.62	17.627		
14,800.00	7,870.00	13,357.88	7,630.00	117.44	82.52	84.84	-3,305.70	2,474.47	2,690.24	2,534.65	155.58	17.291		
14,900.00	7,870.00	13,457.88	7,630.00	117.98	84.01	84.84	-3,405.70	2,474.13	2,690.24	2,531.67	158.57	16.965		
15,000.00	7,870.00	13,557.88	7,630.00	118.56	85.50	84.84	-3,505.70	2,473.80	2,690.24	2,528.66	161.58	16.650		
15,100.00	7,870.00	13,657.88	7,630.00	119.17	87.01	84.84	-3,605.70	2,473.46	2,690.24	2,525.63	164.61	16.343		
15,200.00	7,870.00	13,757.88	7,630.00	119.81	88.53	84.84	-3,705.70	2,473.12	2,690.24	2,522.58	167.66	16.046		
15,300.00	7,870.00	13,857.88	7,630.00	120.48	90.05	84.84	-3,805.70	2,472.79	2,690.24	2,519.52	170.73	15.758		
15,400.00	7,870.00	13,957.88	7,630.00	121.19	91.59	84.84	-3,905.70	2,472.45	2,690.25	2,516.44	173.81	15.478		
15,500.00	7,870.00	14,057.88	7,630.00	121.93	93.13	84.84	-4,005.70	2,472.11	2,690.25	2,513.34	176.91	15.207		
15,600.00	7,870.00	14,157.88	7,630.00	122.71	94.68	84.84	-4,105.70	2,471.78	2,690.25	2,510.22	180.03	14.944		
15,700.00	7,870.00	14,257.88	7,630.00	123.52	96.24	84.84	-4,205.70	2,471.44	2,690.25	2,507.09	183.16	14.688		
15,800.00	7,870.00	14,357.88	7,630.00	124.36	97.80	84.84	-4,305.70	2,471.10	2,690.25	2,503.95	186.30	14.440		
15,900.00	7,870.00	14,457.88	7,630.00	125.23	99.37	84.84	-4,405.70	2,470.77	2,690.25	2,500.79	189.46	14.200		
16,000.00	7,870.00	14,557.88	7,630.00	126.14	100.95	84.84	-4,505.70	2,470.43	2,690.25	2,497.62	192.63	13.966		
16,100.00	7,870.00	14,657.88	7,630.00	127.07	102.53	84.84	-4,605.70	2,470.09	2,690.25	2,494.44	195.81	13.739		
16,200.00	7,870.00	14,757.88	7,630.00	128.04	104.11	84.84	-4,705.69	2,469.76	2,690.25	2,491.25	199.00	13.519		
16,300.00	7,870.00	14,857.88	7,630.00	129.04	105.71	84.84	-4,805.69	2,469.42	2,690.26	2,488.05	202.21	13.304		
16,400.00	7,870.00	14,957.88	7,630.00	130.06	107.31	84.84	-4,905.69	2,469.08	2,690.26	2,484.83	205.42	13.096		
16,500.00	7,870.00	15,057.88	7,630.00	131.11	108.91	84.84	-5,005.69	2,468.75	2,690.26	2,481.61	208.65	12.894		
16,600.00	7,870.00	15,157.88	7,630.00	132.19	110.52	84.84	-5,105.69	2,468.41	2,690.26	2,478.37	211.88	12.697		
16,700.00	7,870.00	15,257.88	7,630.00	133.29	112.13	84.84	-5,205.69	2,468.07	2,690.26	2,475.13	215.13	12.505		
16,800.00	7,870.00	15,357.88	7,630.00	134.42	113.74	84.84	-5,305.69	2,467.74	2,690.26	2,471.88	218.38	12.319		
16,900.00	7,870.00	15,457.88	7,630.00	135.57	115.36	84.84	-5,405.69	2,467.40	2,690.26	2,468.62	221.64	12.138		
17,000.00	7,870.00	15,557.88	7,630.00	136.75	116.99	84.84	-5,505.69	2,467.06	2,690.26	2,465.35	224.91	11.962		
17,100.00	7,870.00	15,657.88	7,630.00	137.94	118.62	84.84	-5,605.69	2,466.73	2,690.26	2,462.08	228.18	11.790		
17,200.00	7,870.00	15,757.88	7,630.00	139.16	120.25	84.84	-5,705.69	2,466.39	2,690.27	2,458.80	231.47	11.623		
17,300.00	7,870.00	15,857.88	7,630.00	140.39	121.88	84.84	-5,805.69	2,466.05	2,690.27	2,455.51	234.76	11.460		
17,400.00	7,870.00	15,957.88	7,630.00	141.65	123.52	84.84	-5,905.69	2,465.72	2,690.27	2,452.21	238.05	11.301		
17,500.00	7,870.00	16,057.88	7,630.00	142.92	125.16	84.84	-6,005.69	2,465.38	2,690.27	2,448.91	241.36	11.146		
17,600.00	7,870.00	16,157.88	7,630.00	144.21	126.81	84.84	-6,105.69	2,465.04	2,690.27	2,445.60	244.67	10.996		
17,700.00	7,870.00	16,257.88	7,630.00	145.52	128.45	84.84	-6,205.69	2,464.71	2,690.27	2,442.29	247.98	10.849		
17,800.00	7,870.00	16,357.88	7,630.00	146.84	130.10	84.84	-6,305.69	2,464.37	2,690.27	2,438.97	251.30	10.705		
17,900.00	7,870.00	16,457.88	7,630.00	148.18	131.76	84.84	-6,405.69	2,464.03	2,690.27	2,435.64	254.63	10.565		
18,000.00	7,870.00	16,557.88	7,630.00	149.54	133.41	84.84	-6,505.68	2,463.70	2,690.27	2,432.31	257.96	10.429		
18,100.00	7,870.00	16,657.88	7,630.00	150.90	135.07	84.84	-6,605.68	2,463.36	2,690.28	2,428.98	261.30	10.296		
18,200.00	7,870.00	16,757.88	7,630.00	152.28	136.73	84.84	-6,705.68	2,463.02	2,690.28	2,425.64	264.64	10.166		
18,300.00	7,870.00	16,857.88	7,630.00	153.67	138.40	84.84	-6,805.68	2,462.68	2,690.28	2,422.29	267.98	10.039		
18,400.00	7,870.00	16,957.88	7,630.00	155.07	140.06	84.84	-6,905.68	2,462.35	2,690.28	2,418.94	271.33	9.915		
18,500.00	7,870.00	17,057.88	7,630.00	156.49	141.73	84.84	-7,005.68	2,462.01	2,690.28	2,415.59	274.69	9.794		
18,600.00	7,870.00	17,157.88	7,630.00	157.91	143.40	84.84	-7,105.68	2,461.67	2,690.28	2,412.23	278.05	9.676		
18,700.00	7,870.00	17,257.88	7,630.00	159.35	145.08	84.84	-7,205.68	2,461.34	2,690.28	2,408.87	281.41	9.560		
18,800.00	7,870.00	17,357.88	7,630.00	160.79	146.75	84.84	-7,305.68	2,461.00	2,690.28	2,405.51	284.78	9.447		
18,900.00	7,870.00	17,457.88	7,630.00	162.25	148.43	84.84	-7,405.68	2,460.66	2,690.28	2,402.14	288.15	9.336		
19,000.00	7,870.00	17,557.88	7,630.00	163.71	150.10	84.84	-7,505.68	2,460.33	2,690.29	2,398.76	291.52	9.228		
19,100.00	7,870.00	17,657.88	7,630.00	165.18	151.79	84.84	-7,605.68	2,459.99	2,690.29	2,395.39	294.90	9.123		
19,200.00	7,870.00	17,757.88	7,630.00	166.66	153.47	84.84	-7,705.68	2,459.65	2,690.29	2,392.01	298.28	9.019		
19,300.00	7,870.00	17,857.88	7,630.00	168.15	155.15	84.84	-7,805.68	2,459.32	2,690.29	2,388.62	301.66	8.918		
19,400.00	7,870.00	17,957.88	7,630.00	169.65	156.84	84.84	-7,905.68	2,458.98	2,690.29	2,385.24	305.05	8.819		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,500.00	7,870.00	18,057.88	7,630.00	171.15	158.52	84.84	-8,005.68	2,458.64	2,690.29	2,381.85	308.44	8.722	
19,600.00	7,870.00	18,157.88	7,630.00	172.66	160.21	84.84	-8,105.68	2,458.31	2,690.29	2,378.46	311.83	8.627	
19,700.00	7,870.00	18,257.88	7,630.00	174.18	161.90	84.84	-8,205.68	2,457.97	2,690.29	2,375.06	315.23	8.534	
19,800.00	7,870.00	18,357.88	7,630.00	175.70	163.60	84.84	-8,305.67	2,457.63	2,690.29	2,371.66	318.63	8.443	
19,889.26	7,870.00	18,447.14	7,630.00	177.06	165.11	84.84	-8,394.93	2,457.33	2,690.30	2,368.63	321.67	8.364 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	-89.70	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 CC, ES		
400.00	399.98	401.98	401.98	1.21	1.22	-158.36	0.36	-70.00	71.62	69.20	2.42	29.562		
500.00	499.84	501.84	501.84	1.56	1.57	-159.77	0.36	-70.00	76.51	73.37	3.14	24.385		
600.00	599.45	601.45	601.45	1.93	1.93	-161.76	0.36	-70.00	84.74	80.89	3.86	21.976		
700.00	698.70	700.70	700.70	2.32	2.29	-163.96	0.36	-70.00	96.40	91.82	4.58	21.061		
800.00	797.47	800.53	799.47	2.72	2.65	-166.11	0.36	-70.00	111.53	106.22	5.30	21.030		
900.00	895.62	902.38	897.62	3.16	3.01	-168.04	0.36	-70.00	130.14	124.10	6.04	21.548		
1,000.00	993.06	995.06	995.06	3.63	3.34	-169.72	0.36	-70.00	152.24	145.49	6.75	22.566		
1,100.00	1,089.64	1,097.20	1,097.18	4.14	3.71	-170.99	1.32	-68.66	176.34	168.86	7.48	23.560		
1,200.00	1,185.27	1,200.48	1,200.32	4.70	4.07	-171.72	4.42	-64.28	200.63	192.40	8.23	24.384		
1,300.00	1,279.82	1,304.66	1,304.09	5.31	4.45	-172.05	9.74	-56.80	225.01	216.04	8.98	25.059		
1,400.00	1,373.17	1,409.75	1,408.35	5.97	4.83	-172.10	17.30	-46.15	249.46	239.72	9.74	25.612		
1,500.00	1,465.21	1,515.75	1,512.96	6.69	5.24	-171.94	27.17	-32.25	273.92	263.40	10.51	26.053		
1,600.00	1,555.84	1,622.66	1,617.77	7.47	5.67	-171.62	39.39	-15.05	298.37	287.07	11.30	26.405		
1,700.00	1,644.94	1,730.49	1,722.60	8.31	6.14	-171.17	53.99	5.52	322.80	310.69	12.11	26.666		
1,800.00	1,732.39	1,839.24	1,827.29	9.23	6.64	-170.61	71.03	29.51	347.18	334.24	12.93	26.844		
1,900.00	1,818.11	1,948.92	1,931.66	10.21	7.20	-169.96	90.53	56.97	371.49	357.71	13.79	26.943		
2,000.00	1,901.97	2,059.52	2,035.53	11.26	7.81	-169.24	112.51	87.94	395.73	381.05	14.68	26.962		
2,100.00	1,983.88	2,171.04	2,138.70	12.38	8.49	-168.45	137.02	122.44	419.88	404.27	15.61	26.901		
2,200.00	2,063.74	2,283.48	2,240.97	13.57	9.24	-167.60	164.06	160.52	443.92	427.33	16.59	26.760		
2,300.00	2,141.45	2,396.83	2,342.13	14.84	10.07	-166.71	193.65	202.20	467.85	450.22	17.63	26.538		
2,327.78	2,162.65	2,428.48	2,370.02	15.21	10.32	-166.45	202.33	214.41	474.48	456.54	17.93	26.456		
2,400.00	2,217.51	2,511.30	2,442.17	16.17	10.99	-165.82	225.86	247.56	490.79	472.05	18.74	26.185		
2,500.00	2,293.49	2,610.05	2,527.36	17.51	11.83	-165.04	254.78	288.28	511.94	492.01	19.93	25.690		
2,600.00	2,369.47	2,707.56	2,611.48	18.86	12.69	-164.33	283.34	328.49	533.17	512.02	21.15	25.209		
2,700.00	2,445.45	2,805.08	2,695.60	20.22	13.56	-163.68	311.89	368.71	554.47	532.06	22.41	24.746		
2,800.00	2,521.42	2,902.60	2,779.72	21.59	14.45	-163.07	340.45	408.93	575.83	552.14	23.69	24.305		
2,900.00	2,597.40	3,000.12	2,863.85	22.97	15.35	-162.51	369.01	449.15	597.25	572.24	25.00	23.885		
3,000.00	2,673.38	3,102.37	2,947.97	24.34	16.30	-161.99	397.57	489.37	618.72	592.35	26.37	23.463		
3,100.00	2,749.36	3,195.15	3,032.09	25.73	17.18	-161.50	426.13	529.58	640.24	612.53	27.70	23.112		
3,200.00	2,825.33	3,292.67	3,116.21	27.11	18.10	-161.05	454.69	569.80	661.79	632.71	29.08	22.758		
3,300.00	2,901.31	3,409.82	3,200.33	28.50	19.22	-160.62	483.25	610.02	683.39	652.79	30.60	22.334		
3,400.00	2,977.29	3,487.70	3,284.45	29.90	19.97	-160.22	511.81	650.24	705.02	673.13	31.89	22.109		
3,500.00	3,053.27	3,585.22	3,368.58	31.29	20.91	-159.84	540.36	690.45	726.68	693.36	33.32	21.812		
3,600.00	3,129.24	3,682.73	3,452.70	32.69	21.85	-159.48	568.92	730.67	748.37	713.61	34.76	21.532		
3,700.00	3,205.22	3,780.25	3,536.82	34.08	22.80	-159.15	597.48	770.89	770.09	733.88	36.21	21.268		
3,800.00	3,281.20	3,877.77	3,620.94	35.48	23.75	-158.83	626.04	811.11	791.82	754.15	37.67	21.018		
3,900.00	3,357.18	3,975.28	3,705.06	36.88	24.71	-158.53	654.60	851.33	813.59	774.44	39.15	20.783		
4,000.00	3,433.15	4,072.80	3,789.19	38.29	25.66	-158.24	683.16	891.54	835.37	794.74	40.63	20.560		
4,100.00	3,509.13	4,170.32	3,873.31	39.69	26.62	-157.97	711.72	931.76	857.17	815.04	42.12	20.350		
4,200.00	3,585.11	4,267.84	3,957.43	41.09	27.58	-157.72	740.28	971.98	878.98	835.36	43.62	20.150		
4,300.00	3,661.08	4,365.35	4,041.55	42.50	28.54	-157.47	768.83	1,012.20	900.82	855.69	45.13	19.961		
4,400.00	3,737.06	4,462.87	4,125.67	43.90	29.50	-157.24	797.39	1,052.41	922.67	876.02	46.64	19.782		
4,500.00	3,813.04	4,560.39	4,209.79	45.31	30.47	-157.02	825.95	1,092.63	944.53	896.37	48.16	19.612		
4,600.00	3,889.02	4,657.90	4,293.92	46.71	31.43	-156.81	854.51	1,132.85	966.40	916.72	49.69	19.450		
4,700.00	3,964.99	4,755.42	4,378.04	48.12	32.40	-156.60	883.07	1,173.07	988.29	937.07	51.22	19.296		
4,800.00	4,040.97	4,852.94	4,462.16	49.53	33.37	-156.41	911.63	1,213.29	1,010.19	957.44	52.75	19.149		
4,900.00	4,116.95	4,950.45	4,546.28	50.94	34.34	-156.22	940.19	1,253.50	1,032.10	977.80	54.29	19.010		
5,000.00	4,192.93	5,047.97	4,630.40	52.35	35.31	-156.05	968.74	1,293.72	1,054.02	998.18	55.84	18.876		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,268.90	5,145.49	4,714.53	53.76	36.28	-155.87	997.30	1,333.94	1,075.94	1,018.56	57.39	18.749		
5,200.00	4,344.88	5,243.01	4,798.65	55.16	37.25	-155.71	1,025.86	1,374.16	1,097.88	1,038.94	58.94	18.628		
5,300.00	4,420.86	5,340.52	4,882.77	56.57	38.22	-155.55	1,054.42	1,414.38	1,119.83	1,059.33	60.49	18.511		
5,400.00	4,496.84	5,438.04	4,966.89	57.98	39.19	-155.40	1,082.98	1,454.59	1,141.78	1,079.73	62.05	18.400		
5,500.00	4,572.81	5,535.56	5,051.01	59.39	40.17	-155.26	1,111.54	1,494.81	1,163.74	1,100.12	63.62	18.293		
5,600.00	4,648.79	5,633.07	5,135.13	60.81	41.14	-155.12	1,140.10	1,535.03	1,185.71	1,120.53	65.18	18.191		
5,700.00	4,724.77	5,730.59	5,219.26	62.22	42.11	-154.98	1,168.66	1,575.25	1,207.68	1,140.93	66.75	18.093		
5,800.00	4,800.74	5,828.11	5,303.38	63.63	43.09	-154.85	1,197.21	1,615.46	1,229.66	1,161.34	68.32	17.999		
5,900.00	4,876.72	5,925.62	5,387.50	65.04	44.06	-154.72	1,225.77	1,655.68	1,251.65	1,181.75	69.89	17.908		
6,000.00	4,952.70	6,023.14	5,471.62	66.45	45.04	-154.60	1,254.33	1,695.90	1,273.64	1,202.17	71.47	17.821		
6,100.00	5,028.68	6,120.66	5,555.74	67.86	46.01	-154.49	1,282.89	1,736.12	1,295.63	1,222.59	73.05	17.737		
6,200.00	5,104.65	6,218.17	5,639.87	69.27	46.99	-154.37	1,311.45	1,776.34	1,317.64	1,243.01	74.63	17.657		
6,300.00	5,180.63	6,315.69	5,723.99	70.69	47.97	-154.26	1,340.01	1,816.55	1,339.64	1,263.43	76.21	17.579		
6,400.00	5,256.61	6,413.21	5,808.11	72.10	48.94	-154.16	1,368.57	1,856.77	1,361.65	1,283.86	77.79	17.504		
6,500.00	5,332.59	6,510.73	5,892.23	73.51	49.92	-154.05	1,397.13	1,896.99	1,383.67	1,304.29	79.38	17.432		
6,600.00	5,408.56	6,608.24	5,976.35	74.92	50.90	-153.95	1,425.68	1,937.21	1,405.69	1,324.72	80.96	17.362		
6,700.00	5,484.54	6,705.76	6,060.47	76.34	51.88	-153.86	1,454.24	1,977.42	1,427.71	1,345.16	82.55	17.295		
6,800.00	5,560.52	6,803.28	6,144.60	77.75	52.85	-153.76	1,482.80	2,017.64	1,449.74	1,365.60	84.14	17.230		
6,900.00	5,636.50	6,900.79	6,228.72	79.16	53.83	-153.67	1,511.36	2,057.86	1,471.77	1,386.03	85.73	17.167		
7,000.00	5,712.47	7,001.69	6,312.84	80.57	54.85	-153.58	1,539.92	2,098.08	1,493.80	1,406.45	87.35	17.101		
7,100.00	5,788.45	7,104.17	6,396.96	81.99	55.87	-153.50	1,568.48	2,138.30	1,515.84	1,426.86	88.98	17.036		
7,200.00	5,864.43	7,206.66	6,481.08	83.40	56.90	-153.42	1,597.04	2,178.51	1,537.88	1,447.27	90.61	16.972		
7,300.00	5,940.40	7,309.14	6,565.21	84.81	57.93	-153.33	1,625.60	2,218.73	1,559.92	1,467.68	92.24	16.911		
7,400.00	6,016.38	7,388.38	6,649.33	86.23	58.73	-153.26	1,654.15	2,258.95	1,581.97	1,488.26	93.71	16.882		
7,500.00	6,092.36	7,485.89	6,733.45	87.64	59.71	-153.18	1,682.71	2,299.17	1,604.02	1,508.71	95.31	16.830		
7,600.00	6,168.34	7,583.41	6,817.57	89.05	60.69	-153.11	1,711.27	2,339.39	1,626.07	1,529.16	96.91	16.779		
7,700.00	6,244.31	7,680.93	6,901.69	90.47	61.67	-153.03	1,739.83	2,379.60	1,648.12	1,549.61	98.51	16.731		
7,800.00	6,320.29	7,778.45	6,985.81	91.88	62.65	-152.96	1,768.39	2,419.82	1,670.18	1,570.07	100.11	16.683		
7,900.00	6,396.27	7,875.96	7,069.94	93.30	63.63	-152.89	1,796.95	2,460.04	1,692.24	1,590.52	101.71	16.637		
8,000.00	6,472.25	7,973.48	7,154.06	94.71	64.61	-152.83	1,825.51	2,500.26	1,714.30	1,610.98	103.32	16.592		
8,100.00	6,548.22	8,094.82	7,259.64	96.12	65.80	-152.88	1,857.22	2,550.72	1,736.06	1,631.07	104.99	16.535		
8,200.00	6,624.20	8,239.28	7,389.49	97.54	66.95	-153.93	1,884.96	2,612.68	1,755.49	1,650.42	105.07	16.707		
8,300.00	6,700.18	8,363.17	7,499.31	98.95	67.61	-155.70	1,842.76	2,664.98	1,773.31	1,669.76	103.54	17.126		
8,400.00	6,776.16	8,461.81	7,582.11	100.37	67.92	-157.62	1,806.71	2,704.35	1,791.31	1,689.81	101.50	17.648		
8,500.00	6,852.13	8,537.98	7,641.54	101.78	68.04	-159.36	1,768.41	2,732.56	1,811.09	1,711.53	99.56	18.191		
8,600.00	6,928.11	8,596.66	7,683.89	103.20	68.06	-160.84	1,733.15	2,752.64	1,833.72	1,735.84	97.88	18.735		
8,700.00	7,004.09	8,642.36	7,714.49	104.61	68.04	-162.06	1,702.48	2,767.14	1,859.86	1,763.44	96.42	19.289		
8,800.00	7,080.06	8,678.52	7,737.09	106.02	68.00	-163.06	1,676.35	2,777.83	1,889.83	1,794.72	95.11	19.869		
8,900.00	7,156.04	8,707.65	7,754.18	107.44	67.95	-163.89	1,654.20	2,785.90	1,923.78	1,829.88	93.90	20.488		
9,000.00	7,232.02	8,731.48	7,767.40	108.85	67.91	-164.58	1,635.38	2,792.14	1,961.69	1,868.97	92.72	21.158		
9,104.68	7,311.55	8,750.00	7,777.17	110.33	67.87	-165.12	1,620.34	2,796.75	2,005.52	1,913.97	91.56	21.904		
9,150.00	7,346.29	8,760.84	7,782.69	110.97	67.84	-172.92	1,611.38	2,799.35	2,025.68	1,934.70	90.98	22.265		
9,200.00	7,385.15	8,771.60	7,788.01	111.65	67.81	178.14	1,602.37	2,801.86	2,048.46	1,958.00	90.46	22.646		
9,250.00	7,424.29	8,783.42	7,793.69	112.31	67.78	168.98	1,592.35	2,804.53	2,071.55	1,981.57	89.98	23.023		
9,300.00	7,463.40	8,800.00	7,801.32	112.93	67.74	159.76	1,578.08	2,808.13	2,094.74	2,005.31	89.44	23.422		
9,350.00	7,502.19	8,800.00	7,801.32	113.51	67.74	151.19	1,578.08	2,808.13	2,117.83	2,028.38	89.45	23.677		
9,400.00	7,540.36	8,823.97	7,811.70	114.04	67.67	142.56	1,557.04	2,813.01	2,140.48	2,051.64	88.84	24.094		
9,450.00	7,577.62	8,850.00	7,822.06	114.53	67.59	134.55	1,533.66	2,817.87	2,162.68	2,074.45	88.24	24.510		
9,500.00	7,613.70	8,850.00	7,822.06	114.95	67.59	127.70	1,533.66	2,817.87	2,184.01	2,095.53	88.48	24.683		
9,550.00	7,648.30	8,870.09	7,829.40	115.32	67.52	121.23	1,515.27	2,821.31	2,204.45	2,116.25	88.20	24.993		
9,600.00	7,681.18	8,886.37	7,834.91	115.63	67.46	115.54	1,500.18	2,823.88	2,223.80	2,135.68	88.12	25.236		
9,650.00	7,712.08	8,900.00	7,839.23	115.88	67.41	110.58	1,487.41	2,825.90	2,241.89	2,153.69	88.20	25.418		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,700.00	7,740.76	8,919.95	7,845.05	116.08	67.33	106.19	1,468.52	2,828.61	2,258.58	2,170.41	88.16	25.618		
9,750.00	7,767.01	8,950.00	7,852.69	116.23	67.22	102.34	1,439.68	2,832.16	2,273.84	2,185.98	87.86	25.880		
9,800.00	7,790.63	8,950.00	7,852.69	116.33	67.22	99.30	1,439.68	2,832.16	2,287.29	2,198.61	88.68	25.793		
9,850.00	7,811.44	8,972.23	7,857.46	116.38	67.12	96.60	1,418.08	2,834.36	2,299.07	2,210.25	88.82	25.885		
9,900.00	7,829.28	9,000.00	7,862.35	116.38	67.00	94.38	1,390.84	2,836.60	2,309.10	2,220.27	88.83	25.995		
9,950.00	7,844.01	9,000.00	7,862.35	116.35	67.00	92.72	1,390.84	2,836.60	2,317.16	2,227.18	89.98	25.752		
10,000.00	7,855.52	9,025.97	7,865.85	116.28	66.89	91.41	1,365.16	2,838.18	2,323.27	2,233.04	90.23	25.748		
10,050.00	7,863.72	9,050.00	7,868.14	116.18	66.78	90.52	1,341.26	2,839.19	2,327.44	2,236.81	90.63	25.681		
10,100.00	7,868.56	9,050.00	7,868.14	116.06	66.78	90.04	1,341.26	2,839.19	2,329.64	2,237.54	92.10	25.294		
10,145.94	7,870.00	9,078.86	7,869.69	115.92	66.65	89.94	1,312.46	2,839.84	2,329.73	2,237.40	92.32	25.235		
10,200.00	7,870.00	9,098.65	7,870.00	115.76	66.55	89.95	1,292.67	2,839.92	2,329.32	2,236.11	93.21	24.990		
10,202.33	7,870.00	9,100.52	7,870.00	115.75	66.55	89.95	1,290.79	2,839.91	2,329.32	2,236.12	93.21	24.991		
10,300.00	7,870.00	9,198.19	7,870.00	115.46	66.10	89.95	1,193.12	2,839.58	2,329.32	2,237.15	92.18	25.270		
10,400.00	7,870.00	9,301.81	7,870.00	115.18	65.64	89.95	1,093.12	2,839.24	2,329.33	2,238.09	91.23	25.531		
10,500.00	7,870.00	9,401.81	7,870.00	114.91	65.23	89.95	993.12	2,838.91	2,329.33	2,238.89	90.44	25.756		
10,600.00	7,870.00	9,501.81	7,870.00	114.65	64.84	89.95	893.12	2,838.57	2,329.33	2,239.56	89.78	25.946		
10,700.00	7,870.00	9,601.81	7,870.00	114.41	64.47	89.95	793.12	2,838.23	2,329.33	2,240.08	89.25	26.099		
10,800.00	7,870.00	9,701.81	7,870.00	114.17	64.12	89.95	693.12	2,837.89	2,329.34	2,240.47	88.86	26.213		
10,900.00	7,870.00	9,801.81	7,870.00	113.95	63.80	89.95	593.13	2,837.55	2,329.34	2,240.72	88.61	26.286		
11,000.00	7,870.00	9,901.81	7,870.00	113.75	63.49	89.95	493.13	2,837.22	2,329.34	2,240.83	88.51	26.318		
11,100.00	7,870.00	10,001.81	7,870.00	113.55	63.21	89.95	393.13	2,836.88	2,329.34	2,240.80	88.55	26.307		
11,200.00	7,870.00	10,101.81	7,870.00	113.37	62.95	89.95	293.13	2,836.54	2,329.35	2,240.62	88.72	26.254		
11,300.00	7,870.00	10,201.81	7,870.00	113.20	62.71	89.95	193.13	2,836.20	2,329.35	2,240.31	89.04	26.160		
11,400.00	7,870.00	10,301.81	7,870.00	113.04	62.50	89.95	93.13	2,835.86	2,329.35	2,239.85	89.50	26.026		
11,500.00	7,870.00	10,398.19	7,870.00	112.89	62.32	89.95	-6.87	2,835.53	2,329.35	2,239.27	90.08	25.858		
11,600.00	7,870.00	10,501.81	7,870.00	112.76	62.14	89.95	-106.87	2,835.19	2,329.36	2,238.53	90.83	25.646		
11,700.00	7,870.00	10,601.81	7,870.00	112.64	62.01	89.95	-206.87	2,834.85	2,329.36	2,237.67	91.69	25.406		
11,800.00	7,870.00	10,701.81	7,870.00	112.53	61.90	89.95	-306.87	2,834.51	2,329.36	2,236.69	92.67	25.135		
11,900.00	7,870.00	10,801.81	7,870.00	112.44	61.82	89.95	-406.87	2,834.17	2,329.36	2,235.58	93.79	24.837		
12,000.00	7,870.00	10,901.81	7,870.00	112.36	61.78	89.95	-506.87	2,833.84	2,329.36	2,234.35	95.01	24.516		
12,100.00	7,870.00	11,001.81	7,870.00	112.29	61.77	89.95	-606.87	2,833.50	2,329.37	2,233.01	96.36	24.174		
12,200.00	7,870.00	11,101.81	7,870.00	112.24	61.81	89.95	-706.87	2,833.16	2,329.37	2,231.56	97.81	23.815		
12,300.00	7,870.00	11,201.81	7,870.00	112.20	61.90	89.95	-806.87	2,832.82	2,329.37	2,230.00	99.37	23.442		
12,400.00	7,870.00	11,301.81	7,870.00	112.17	62.04	89.95	-906.87	2,832.48	2,329.37	2,228.35	101.03	23.057		
12,500.00	7,870.00	11,398.19	7,870.00	112.16	62.23	89.95	-1,006.87	2,832.15	2,329.38	2,226.63	102.74	22.672		
12,600.00	7,870.00	11,501.81	7,870.00	112.17	62.50	89.95	-1,106.87	2,831.81	2,329.38	2,224.76	104.62	22.265		
12,700.00	7,870.00	11,601.81	7,870.00	112.19	62.84	89.95	-1,206.86	2,831.47	2,329.38	2,222.84	106.55	21.863		
12,800.00	7,870.00	11,698.19	7,870.00	112.23	63.25	89.95	-1,306.86	2,831.13	2,329.38	2,220.87	108.51	21.466		
12,900.00	7,870.00	11,801.81	7,870.00	112.28	63.77	89.95	-1,406.86	2,830.79	2,329.39	2,218.75	110.64	21.055		
13,000.00	7,870.00	11,901.81	7,870.00	112.36	64.35	89.95	-1,506.86	2,830.46	2,329.39	2,216.60	112.79	20.652		
13,100.00	7,870.00	12,001.81	7,870.00	112.45	65.03	89.95	-1,606.86	2,830.12	2,329.39	2,214.38	115.01	20.253		
13,200.00	7,870.00	12,101.81	7,870.00	112.56	65.78	89.95	-1,706.86	2,829.78	2,329.39	2,212.09	117.30	19.858		
13,300.00	7,870.00	12,201.81	7,870.00	112.68	66.62	89.95	-1,806.86	2,829.44	2,329.40	2,209.75	119.65	19.468		
13,400.00	7,870.00	12,301.81	7,870.00	112.83	67.53	89.95	-1,906.86	2,829.10	2,329.40	2,207.34	122.05	19.085		
13,500.00	7,870.00	12,401.81	7,870.00	113.00	68.51	89.95	-2,006.86	2,828.77	2,329.40	2,204.89	124.51	18.708		
13,600.00	7,870.00	12,501.81	7,870.00	113.19	69.54	89.95	-2,106.86	2,828.43	2,329.40	2,202.38	127.02	18.339		
13,700.00	7,870.00	12,601.81	7,870.00	113.40	70.63	89.95	-2,206.86	2,828.09	2,329.40	2,199.83	129.58	17.977		
13,800.00	7,870.00	12,701.81	7,870.00	113.63	71.77	89.95	-2,306.86	2,827.75	2,329.41	2,197.23	132.18	17.623		
13,900.00	7,870.00	12,801.81	7,870.00	113.89	72.95	89.95	-2,406.86	2,827.41	2,329.41	2,194.59	134.82	17.278		
14,000.00	7,870.00	12,901.81	7,870.00	114.18	74.16	89.95	-2,506.86	2,827.08	2,329.41	2,191.90	137.51	16.940		
14,100.00	7,870.00	12,998.19	7,870.00	114.48	75.37	89.95	-2,606.86	2,826.74	2,329.41	2,189.24	140.18	16.618		
14,200.00	7,870.00	13,101.81	7,870.00	114.82	76.70	89.95	-2,706.86	2,826.40	2,329.42	2,186.43	142.98	16.291		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1E-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,300.00	7,870.00	13,201.81	7,870.00	115.18	78.00	89.95	-2,806.86	2,826.06	2,329.42	2,183.64	145.77	15.980		
14,400.00	7,870.00	13,298.19	7,870.00	115.57	79.29	89.95	-2,906.85	2,825.72	2,329.42	2,180.88	148.54	15.682		
14,500.00	7,870.00	13,401.81	7,870.00	115.99	80.69	89.95	-3,006.85	2,825.39	2,329.42	2,177.98	151.45	15.381		
14,600.00	7,870.00	13,501.81	7,870.00	116.44	82.06	89.95	-3,106.85	2,825.05	2,329.43	2,175.10	154.33	15.094		
14,700.00	7,870.00	13,601.81	7,870.00	116.92	83.46	89.95	-3,206.85	2,824.71	2,329.43	2,172.20	157.23	14.815		
14,800.00	7,870.00	13,701.81	7,870.00	117.44	84.87	89.95	-3,306.85	2,824.37	2,329.43	2,169.27	160.16	14.544		
14,900.00	7,870.00	13,801.81	7,870.00	117.98	86.29	89.95	-3,406.85	2,824.03	2,329.43	2,166.31	163.12	14.281		
15,000.00	7,870.00	13,901.81	7,870.00	118.56	87.73	89.95	-3,506.85	2,823.70	2,329.44	2,163.34	166.10	14.025		
15,100.00	7,870.00	14,001.81	7,870.00	119.17	89.19	89.95	-3,606.85	2,823.36	2,329.44	2,160.34	169.09	13.776		
15,200.00	7,870.00	14,101.81	7,870.00	119.81	90.65	89.95	-3,706.85	2,823.02	2,329.44	2,157.33	172.11	13.534		
15,300.00	7,870.00	14,201.81	7,870.00	120.48	92.13	89.95	-3,806.85	2,822.68	2,329.44	2,154.29	175.15	13.299		
15,400.00	7,870.00	14,301.81	7,870.00	121.19	93.62	89.95	-3,906.85	2,822.34	2,329.44	2,151.24	178.21	13.071		
15,500.00	7,870.00	14,401.81	7,870.00	121.93	95.12	89.95	-4,006.85	2,822.01	2,329.45	2,148.16	181.28	12.850		
15,600.00	7,870.00	14,501.81	7,870.00	122.71	96.62	89.95	-4,106.85	2,821.67	2,329.45	2,145.08	184.37	12.634		
15,700.00	7,870.00	14,601.81	7,870.00	123.52	98.14	89.95	-4,206.85	2,821.33	2,329.45	2,141.97	187.48	12.425		
15,800.00	7,870.00	14,701.81	7,870.00	124.36	99.67	89.95	-4,306.85	2,820.99	2,329.45	2,138.85	190.60	12.222		
15,900.00	7,870.00	14,801.81	7,870.00	125.23	101.20	89.95	-4,406.85	2,820.65	2,329.46	2,135.72	193.74	12.024		
16,000.00	7,870.00	14,901.81	7,870.00	126.14	102.74	89.95	-4,506.85	2,820.32	2,329.46	2,132.57	196.88	11.832		
16,100.00	7,870.00	15,001.81	7,870.00	127.07	104.29	89.95	-4,606.85	2,819.98	2,329.46	2,129.41	200.05	11.645		
16,200.00	7,870.00	15,101.81	7,870.00	128.04	105.85	89.95	-4,706.84	2,819.64	2,329.46	2,126.24	203.22	11.463		
16,300.00	7,870.00	15,201.81	7,870.00	129.04	107.41	89.95	-4,806.84	2,819.30	2,329.47	2,123.06	206.41	11.286		
16,400.00	7,870.00	15,301.81	7,870.00	130.06	108.98	89.95	-4,906.84	2,818.96	2,329.47	2,119.87	209.60	11.114		
16,500.00	7,870.00	15,401.81	7,870.00	131.11	110.55	89.95	-5,006.84	2,818.63	2,329.47	2,116.66	212.81	10.946		
16,600.00	7,870.00	15,501.81	7,870.00	132.19	112.13	89.95	-5,106.84	2,818.29	2,329.47	2,113.45	216.03	10.783		
16,700.00	7,870.00	15,601.81	7,870.00	133.29	113.71	89.95	-5,206.84	2,817.95	2,329.47	2,110.22	219.25	10.625		
16,800.00	7,870.00	15,701.81	7,870.00	134.42	115.30	89.95	-5,306.84	2,817.61	2,329.48	2,106.99	222.49	10.470		
16,900.00	7,870.00	15,801.81	7,870.00	135.57	116.90	89.95	-5,406.84	2,817.27	2,329.48	2,103.74	225.74	10.320		
17,000.00	7,870.00	15,901.81	7,870.00	136.75	118.50	89.95	-5,506.84	2,816.94	2,329.48	2,100.49	228.99	10.173		
17,100.00	7,870.00	16,001.81	7,870.00	137.94	120.10	89.95	-5,606.84	2,816.60	2,329.48	2,097.23	232.25	10.030		
17,200.00	7,870.00	16,101.81	7,870.00	139.16	121.71	89.95	-5,706.84	2,816.26	2,329.49	2,093.97	235.52	9.891		
17,300.00	7,870.00	16,201.81	7,870.00	140.39	123.33	89.95	-5,806.84	2,815.92	2,329.49	2,090.69	238.80	9.755		
17,400.00	7,870.00	16,301.81	7,870.00	141.65	124.94	89.95	-5,906.84	2,815.58	2,329.49	2,087.41	242.08	9.623		
17,500.00	7,870.00	16,398.19	7,870.00	142.92	126.50	89.95	-6,006.84	2,815.25	2,329.49	2,084.18	245.32	9.496		
17,600.00	7,870.00	16,501.81	7,870.00	144.21	128.19	89.95	-6,106.84	2,814.91	2,329.50	2,080.82	248.67	9.368		
17,700.00	7,870.00	16,601.81	7,870.00	145.52	129.82	89.95	-6,206.84	2,814.57	2,329.50	2,077.52	251.98	9.245		
17,800.00	7,870.00	16,698.19	7,870.00	146.84	131.39	89.95	-6,306.84	2,814.23	2,329.50	2,074.27	255.23	9.127		
17,900.00	7,870.00	16,801.81	7,870.00	148.18	133.08	89.95	-6,406.83	2,813.89	2,329.50	2,070.90	258.61	9.008		
18,000.00	7,870.00	16,901.81	7,870.00	149.54	134.72	89.95	-6,506.83	2,813.56	2,329.51	2,067.58	261.93	8.894		
18,100.00	7,870.00	17,001.81	7,870.00	150.90	136.36	89.95	-6,606.83	2,813.22	2,329.51	2,064.25	265.26	8.782		
18,200.00	7,870.00	17,101.81	7,870.00	152.28	138.00	89.95	-6,706.83	2,812.88	2,329.51	2,060.92	268.59	8.673		
18,300.00	7,870.00	17,201.81	7,870.00	153.67	139.65	89.95	-6,806.83	2,812.54	2,329.51	2,057.58	271.93	8.567		
18,400.00	7,870.00	17,301.81	7,870.00	155.07	141.30	89.95	-6,906.83	2,812.20	2,329.51	2,054.24	275.27	8.463		
18,500.00	7,870.00	17,401.81	7,870.00	156.49	142.95	89.95	-7,006.83	2,811.87	2,329.52	2,050.90	278.62	8.361		
18,600.00	7,870.00	17,501.81	7,870.00	157.91	144.61	89.95	-7,106.83	2,811.53	2,329.52	2,047.55	281.97	8.262		
18,700.00	7,870.00	17,601.81	7,870.00	159.35	146.26	89.95	-7,206.83	2,811.19	2,329.52	2,044.19	285.33	8.164		
18,800.00	7,870.00	17,701.81	7,870.00	160.79	147.92	89.95	-7,306.83	2,810.85	2,329.52	2,040.83	288.69	8.069		
18,900.00	7,870.00	17,798.19	7,870.00	162.25	149.53	89.95	-7,406.83	2,810.51	2,329.53	2,037.53	291.99	7.978		
19,000.00	7,870.00	17,901.81	7,870.00	163.71	151.25	89.95	-7,506.83	2,810.18	2,329.53	2,034.10	295.42	7.885		
19,100.00	7,870.00	18,001.81	7,870.00	165.18	152.92	89.95	-7,606.83	2,809.84	2,329.53	2,030.73	298.80	7.796		
19,200.00	7,870.00	18,101.81	7,870.00	166.66	154.58	89.95	-7,706.83	2,809.50	2,329.53	2,027.36	302.17	7.709		
19,300.00	7,870.00	18,201.81	7,870.00	168.15	156.25	89.95	-7,806.83	2,809.16	2,329.54	2,023.98	305.55	7.624		
19,400.00	7,870.00	18,301.81	7,870.00	169.65	157.93	89.95	-7,906.83	2,808.82	2,329.54	2,020.60	308.94	7.540		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1E-22H-H168 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,500.00	7,870.00	18,401.81	7,870.00	171.15	159.60	89.95	-8,006.83	2,808.49	2,329.54	2,017.22	312.32	7.459	
19,600.00	7,870.00	18,501.81	7,870.00	172.66	161.28	89.95	-8,106.83	2,808.15	2,329.54	2,013.83	315.71	7.379	
19,700.00	7,870.00	18,601.81	7,870.00	174.18	162.96	89.95	-8,206.82	2,807.81	2,329.55	2,010.44	319.11	7.300	
19,800.00	7,870.00	18,701.81	7,870.00	175.70	164.64	89.95	-8,306.82	2,807.47	2,329.55	2,007.04	322.50	7.223	
19,889.26	7,870.00	18,787.45	7,870.00	177.06	166.08	89.95	-8,396.08	2,807.17	2,329.55	2,004.07	325.48	7.157 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	-89.65	0.36	-60.20	60.20				
100.00	100.00	102.00	102.00	0.13	0.14	-89.65	0.36	-60.20	60.20	59.93	0.28	218.103	
200.00	200.00	202.00	202.00	0.49	0.50	-89.65	0.36	-60.20	60.20	59.21	0.99	60.628	
300.00	300.00	302.00	302.00	0.85	0.86	-89.65	0.36	-60.20	60.20	58.49	1.71	35.208 CC, ES	
400.00	399.98	401.98	401.98	1.21	1.22	-158.40	0.36	-60.20	61.82	59.40	2.42	25.517	
500.00	499.84	501.84	501.84	1.56	1.57	-160.02	0.36	-60.20	66.71	63.58	3.14	21.263	
600.00	599.45	601.45	601.45	1.93	1.93	-162.24	0.36	-60.20	74.97	71.11	3.86	19.441	
700.00	698.70	700.70	700.70	2.32	2.29	-164.64	0.36	-60.20	86.66	82.08	4.58	18.933	
800.00	797.47	800.53	799.47	2.72	2.65	-166.90	0.36	-60.20	101.83	96.53	5.30	19.203	
900.00	895.62	897.62	897.62	3.16	2.99	-168.88	0.36	-60.20	120.51	114.49	6.02	20.011	
1,000.00	993.06	999.68	999.66	3.63	3.36	-170.38	1.30	-58.74	141.11	134.35	6.75	20.892	
1,100.00	1,089.64	1,102.59	1,102.42	4.14	3.72	-171.24	4.24	-54.18	161.85	154.37	7.49	21.613	
1,200.00	1,185.27	1,206.28	1,205.70	4.70	4.09	-171.68	9.23	-46.45	182.67	174.44	8.23	22.193	
1,300.00	1,279.82	1,310.74	1,309.34	5.31	4.48	-171.82	16.29	-35.49	203.52	194.54	8.98	22.659	
1,400.00	1,373.17	1,415.98	1,413.20	5.97	4.89	-171.73	25.47	-21.25	224.35	214.61	9.74	23.025	
1,500.00	1,465.21	1,522.01	1,517.14	6.69	5.32	-171.48	36.81	-3.67	245.16	234.64	10.52	23.313	
1,600.00	1,555.84	1,628.83	1,620.99	7.47	5.78	-171.09	50.33	17.30	265.91	254.60	11.31	23.519	
1,700.00	1,644.94	1,736.43	1,724.59	8.31	6.29	-170.60	66.06	41.70	286.59	274.47	12.12	23.654	
1,800.00	1,732.39	1,844.82	1,827.78	9.23	6.85	-170.02	84.02	69.57	307.18	294.23	12.95	23.721	
1,900.00	1,818.11	1,953.99	1,930.38	10.21	7.46	-169.37	104.24	100.93	327.67	313.86	13.81	23.721	
2,000.00	1,901.97	2,063.95	2,032.19	11.26	8.14	-168.65	126.73	135.82	348.05	333.33	14.71	23.655	
2,100.00	1,983.88	2,174.69	2,133.04	12.38	8.89	-167.88	151.51	174.24	368.30	352.64	15.66	23.523	
2,200.00	2,063.74	2,286.20	2,232.74	13.57	9.72	-167.05	178.57	216.22	388.41	371.76	16.65	23.324	
2,300.00	2,141.45	2,398.48	2,331.07	14.84	10.63	-166.19	207.92	261.74	408.37	390.66	17.71	23.059	
2,327.78	2,162.65	2,429.81	2,358.13	15.21	10.90	-165.94	216.48	275.02	413.89	395.87	18.02	22.968	
2,400.00	2,217.51	2,511.68	2,428.00	16.17	11.63	-165.32	239.60	310.89	427.30	408.46	18.84	22.677	
2,500.00	2,293.49	2,616.65	2,516.07	17.51	12.63	-164.43	270.55	358.89	443.48	423.41	20.08	22.091	
2,600.00	2,369.47	2,715.17	2,598.53	18.86	13.60	-163.64	299.76	404.21	459.45	438.08	21.37	21.499	
2,700.00	2,445.45	2,813.70	2,680.99	20.22	14.58	-162.90	328.98	449.52	475.50	452.79	22.70	20.943	
2,800.00	2,521.42	2,912.22	2,763.45	21.59	15.58	-162.21	358.19	494.84	491.62	467.54	24.08	20.420	
2,900.00	2,597.40	3,010.74	2,845.91	22.97	16.59	-161.56	387.41	540.16	507.80	482.32	25.48	19.931	
3,000.00	2,673.38	3,109.27	2,928.37	24.34	17.61	-160.95	416.62	585.47	524.04	497.13	26.91	19.474	
3,100.00	2,749.36	3,207.79	3,010.84	25.73	18.64	-160.38	445.84	630.79	540.34	511.97	28.37	19.046	
3,200.00	2,825.33	3,306.31	3,093.30	27.11	19.68	-159.84	475.05	676.10	556.69	526.83	29.85	18.647	
3,300.00	2,901.31	3,404.84	3,175.76	28.50	20.72	-159.34	504.26	721.42	573.08	541.72	31.36	18.274	
3,400.00	2,977.29	3,503.36	3,258.22	29.90	21.76	-158.86	533.48	766.73	589.51	556.63	32.89	17.926	
3,500.00	3,053.27	3,601.89	3,340.68	31.29	22.82	-158.41	562.69	812.05	605.98	571.55	34.43	17.600	
3,600.00	3,129.24	3,700.41	3,423.14	32.69	23.87	-157.98	591.91	857.36	622.49	586.50	35.99	17.295	
3,700.00	3,205.22	3,801.07	3,505.61	34.08	24.95	-157.57	621.12	902.68	639.03	601.44	37.58	17.003	
3,800.00	3,281.20	3,897.46	3,588.07	35.48	25.99	-157.18	650.34	948.00	655.60	616.44	39.16	16.741	
3,900.00	3,357.18	4,004.02	3,670.53	36.88	27.14	-156.82	679.55	993.31	672.19	631.37	40.82	16.467	
4,000.00	3,433.15	4,105.50	3,752.99	38.29	28.24	-156.47	708.77	1,038.63	688.82	646.36	42.46	16.223	
4,100.00	3,509.13	4,193.03	3,835.45	39.69	29.19	-156.13	737.98	1,083.94	705.46	661.45	44.01	16.030	
4,200.00	3,585.11	4,308.45	3,917.91	41.09	30.44	-155.82	767.19	1,129.26	722.13	676.36	45.77	15.778	
4,300.00	3,661.08	4,409.92	4,000.38	42.50	31.54	-155.51	796.41	1,174.57	738.82	691.38	47.44	15.575	
4,400.00	3,737.06	4,488.60	4,082.84	43.90	32.40	-155.22	825.62	1,219.89	755.52	706.58	48.95	15.436	
4,500.00	3,813.04	4,587.12	4,165.30	45.31	33.47	-154.95	854.84	1,265.21	772.25	721.64	50.61	15.259	
4,600.00	3,889.02	4,685.65	4,247.76	46.71	34.55	-154.68	884.05	1,310.52	788.99	736.71	52.28	15.091	
4,700.00	3,964.99	4,784.17	4,330.22	48.12	35.63	-154.42	913.27	1,355.84	805.75	751.79	53.96	14.933	
4,800.00	4,040.97	4,882.69	4,412.68	49.53	36.70	-154.18	942.48	1,401.15	822.52	766.88	55.64	14.782	
4,900.00	4,116.95	4,981.22	4,495.15	50.94	37.78	-153.95	971.70	1,446.47	839.31	781.98	57.33	14.639	
5,000.00	4,192.93	5,079.74	4,577.61	52.35	38.86	-153.72	1,000.91	1,491.78	856.11	797.08	59.03	14.503	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,268.90	5,178.27	4,660.07	53.76	39.94	-153.50	1,030.13	1,537.10	872.92	812.19	60.73	14.373		
5,200.00	4,344.88	5,276.79	4,742.53	55.16	41.02	-153.29	1,059.34	1,582.42	889.75	827.31	62.44	14.250		
5,300.00	4,420.86	5,375.31	4,824.99	56.57	42.10	-153.09	1,088.55	1,627.73	906.58	842.43	64.15	14.132		
5,400.00	4,496.84	5,473.84	4,907.46	57.98	43.18	-152.90	1,117.77	1,673.05	923.43	857.56	65.87	14.020		
5,500.00	4,572.81	5,572.36	4,989.92	59.39	44.27	-152.71	1,146.98	1,718.36	940.28	872.70	67.59	13.912		
5,600.00	4,648.79	5,670.88	5,072.38	60.81	45.35	-152.53	1,176.20	1,763.68	957.15	887.84	69.31	13.810		
5,700.00	4,724.77	5,769.41	5,154.84	62.22	46.43	-152.36	1,205.41	1,808.99	974.02	902.99	71.04	13.711		
5,800.00	4,800.74	5,867.93	5,237.30	63.63	47.52	-152.19	1,234.63	1,854.31	990.91	918.14	72.77	13.617		
5,900.00	4,876.72	5,966.46	5,319.76	65.04	48.60	-152.03	1,263.84	1,899.63	1,007.80	933.29	74.50	13.527		
6,000.00	4,952.70	6,064.98	5,402.23	66.45	49.69	-151.87	1,293.06	1,944.94	1,024.69	948.45	76.24	13.440		
6,100.00	5,028.68	6,163.50	5,484.69	67.86	50.77	-151.72	1,322.27	1,990.26	1,041.60	963.62	77.98	13.357		
6,200.00	5,104.65	6,262.03	5,567.15	69.27	51.86	-151.57	1,351.48	2,035.57	1,058.51	978.79	79.72	13.277		
6,300.00	5,180.63	6,360.55	5,649.61	70.69	52.94	-151.43	1,380.70	2,080.89	1,075.43	993.96	81.47	13.201		
6,400.00	5,256.61	6,459.07	5,732.07	72.10	54.03	-151.29	1,409.91	2,126.20	1,092.35	1,009.14	83.22	13.127		
6,500.00	5,332.59	6,557.60	5,814.53	73.51	55.11	-151.16	1,439.13	2,171.52	1,109.29	1,024.32	84.97	13.055		
6,600.00	5,408.56	6,656.12	5,897.00	74.92	56.20	-151.03	1,468.34	2,216.84	1,126.22	1,039.50	86.72	12.987		
6,700.00	5,484.54	6,754.65	5,979.46	76.34	57.29	-150.90	1,497.56	2,262.15	1,143.16	1,054.69	88.48	12.921		
6,800.00	5,560.52	6,853.17	6,061.92	77.75	58.37	-150.78	1,526.77	2,307.47	1,160.11	1,069.88	90.23	12.857		
6,900.00	5,636.50	6,951.69	6,144.38	79.16	59.46	-150.66	1,555.99	2,352.78	1,177.06	1,085.07	91.99	12.795		
7,000.00	5,712.47	7,050.22	6,226.84	80.57	60.55	-150.55	1,585.20	2,398.10	1,194.02	1,100.27	93.75	12.736		
7,100.00	5,788.45	7,148.74	6,309.30	81.99	61.64	-150.44	1,614.42	2,443.41	1,210.98	1,115.47	95.51	12.678		
7,200.00	5,864.43	7,247.26	6,391.77	83.40	62.72	-150.33	1,643.63	2,488.73	1,227.95	1,130.67	97.28	12.623		
7,300.00	5,940.40	7,345.79	6,474.23	84.81	63.81	-150.22	1,672.84	2,534.04	1,244.92	1,145.87	99.05	12.569		
7,400.00	6,016.38	7,444.31	6,556.69	86.23	64.90	-150.12	1,702.06	2,579.36	1,261.89	1,161.08	100.81	12.517		
7,500.00	6,092.36	7,542.84	6,639.15	87.64	65.99	-150.02	1,731.27	2,624.68	1,278.87	1,176.29	102.58	12.467		
7,600.00	6,168.34	7,641.36	6,721.61	89.05	67.08	-149.92	1,760.49	2,669.99	1,295.85	1,191.50	104.35	12.418		
7,700.00	6,244.31	7,739.88	6,804.07	90.47	68.17	-149.82	1,789.70	2,715.31	1,312.84	1,206.71	106.12	12.371		
7,800.00	6,320.29	7,838.41	6,886.54	91.88	69.25	-149.73	1,818.92	2,760.62	1,329.83	1,221.93	107.90	12.325		
7,900.00	6,396.27	7,939.85	6,971.45	93.30	70.37	-149.64	1,848.96	2,807.28	1,346.81	1,237.11	109.71	12.276		
8,000.00	6,472.25	8,111.92	7,120.27	94.71	72.07	-150.64	1,872.75	2,888.97	1,360.89	1,250.64	110.25	12.343		
8,100.00	6,548.22	8,260.87	7,249.25	96.12	73.11	-153.13	1,851.90	2,959.62	1,370.88	1,263.27	107.61	12.740		
8,200.00	6,624.20	8,376.16	7,343.34	97.54	73.60	-155.98	1,810.12	3,011.07	1,379.80	1,275.73	104.07	13.259		
8,300.00	6,700.18	8,461.57	7,407.33	98.95	73.80	-158.53	1,765.76	3,046.01	1,390.50	1,289.56	100.94	13.776		
8,400.00	6,776.16	8,524.79	7,450.59	100.37	73.86	-160.63	1,726.21	3,069.60	1,404.86	1,306.44	98.43	14.273		
8,500.00	6,852.13	8,572.39	7,480.51	101.78	73.86	-162.30	1,692.98	3,085.89	1,423.97	1,327.59	96.38	14.775		
8,600.00	6,928.11	8,609.07	7,501.85	103.20	73.83	-163.64	1,665.51	3,097.50	1,448.35	1,353.75	94.59	15.311		
8,700.00	7,004.09	8,637.97	7,517.56	104.61	73.80	-164.71	1,642.81	3,106.03	1,478.15	1,385.23	92.92	15.907		
8,800.00	7,080.06	8,661.22	7,529.45	106.02	73.77	-165.59	1,623.90	3,112.49	1,513.34	1,422.06	91.28	16.579		
8,900.00	7,156.04	8,680.28	7,538.70	107.44	73.73	-166.32	1,608.01	3,117.51	1,553.71	1,464.08	89.63	17.335		
9,000.00	7,232.02	8,700.00	7,547.77	108.85	73.70	-167.08	1,591.21	3,122.43	1,598.99	1,511.18	87.81	18.209		
9,104.68	7,311.55	8,700.00	7,547.77	110.33	73.70	-167.08	1,591.21	3,122.43	1,651.34	1,564.84	86.50	19.091		
9,150.00	7,346.29	8,716.26	7,554.87	110.97	73.66	-175.74	1,577.09	3,126.27	1,675.21	1,589.80	85.42	19.612		
9,200.00	7,385.15	8,724.30	7,558.24	111.65	73.64	174.72	1,570.03	3,128.10	1,702.10	1,617.45	84.65	20.108		
9,250.00	7,424.29	8,733.49	7,562.00	112.31	73.61	164.98	1,561.89	3,130.13	1,729.23	1,645.28	83.95	20.599		
9,300.00	7,463.40	8,750.00	7,568.45	112.93	73.58	155.10	1,547.10	3,133.62	1,756.36	1,673.23	83.12	21.130		
9,350.00	7,502.19	8,750.00	7,568.45	113.51	73.58	146.05	1,547.10	3,133.62	1,783.17	1,700.26	82.91	21.508		
9,400.00	7,540.36	8,766.65	7,574.58	114.04	73.53	137.07	1,531.98	3,136.93	1,809.45	1,727.17	82.28	21.992		
9,450.00	7,577.62	8,779.20	7,578.95	114.53	73.49	128.89	1,520.45	3,139.28	1,835.01	1,753.13	81.88	22.410		
9,500.00	7,613.70	8,800.00	7,585.69	114.95	73.43	121.30	1,501.11	3,142.91	1,859.66	1,778.34	81.32	22.868		
9,550.00	7,648.30	8,800.00	7,585.69	115.32	73.43	114.90	1,501.11	3,142.91	1,883.10	1,801.53	81.57	23.087		
9,600.00	7,681.18	8,820.17	7,591.64	115.63	73.36	108.91	1,482.11	3,146.11	1,905.20	1,823.96	81.24	23.451		
9,650.00	7,712.08	8,834.71	7,595.56	115.88	73.31	103.77	1,468.26	3,148.21	1,925.85	1,844.61	81.23	23.708		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,700.00	7,740.76	8,850.00	7,599.35	116.08	73.26	99.30	1,453.59	3,150.24	1,944.85	1,863.54	81.32	23.917		
9,750.00	7,767.01	8,864.80	7,602.69	116.23	73.20	95.48	1,439.28	3,152.03	1,962.09	1,880.54	81.55	24.060		
9,800.00	7,790.63	8,880.26	7,605.83	116.33	73.14	92.24	1,424.24	3,153.70	1,977.45	1,895.56	81.89	24.149		
9,850.00	7,811.44	8,900.00	7,609.33	116.38	73.07	89.51	1,404.90	3,155.55	1,990.83	1,908.67	82.17	24.229		
9,900.00	7,829.28	8,900.00	7,609.33	116.38	73.07	87.38	1,404.90	3,155.55	2,002.23	1,918.75	83.48	23.984		
9,950.00	7,844.01	8,927.78	7,613.25	116.35	72.96	85.58	1,377.48	3,157.61	2,011.29	1,927.64	83.65	24.043		
10,000.00	7,855.52	8,950.00	7,615.55	116.28	72.87	84.26	1,355.41	3,158.79	2,018.28	1,934.09	84.19	23.973		
10,050.00	7,863.72	8,950.00	7,615.55	116.18	72.87	83.40	1,355.41	3,158.79	2,023.06	1,937.08	85.98	23.530		
10,100.00	7,868.56	8,976.32	7,617.30	116.06	72.75	82.90	1,329.17	3,159.66	2,025.43	1,938.89	86.54	23.404		
10,145.94	7,870.00	9,000.00	7,617.97	115.92	72.65	82.79	1,305.50	3,159.95	2,025.74	1,938.58	87.15	23.244		
10,185.92	7,870.00	9,013.85	7,618.00	115.80	72.59	82.80	1,306.14	3,159.97	2,025.31	1,936.50	88.81	22.806		
10,200.00	7,870.00	9,013.43	7,618.00	115.76	72.59	82.80	1,292.07	3,159.92	2,025.31	1,936.59	88.72	22.828		
10,300.00	7,870.00	9,113.43	7,618.00	115.46	72.16	82.80	1,192.07	3,159.58	2,025.31	1,937.79	87.52	23.141		
10,400.00	7,870.00	9,213.43	7,618.00	115.18	71.75	82.80	1,092.07	3,159.24	2,025.32	1,938.87	86.44	23.429		
10,500.00	7,870.00	9,313.43	7,618.00	114.91	71.36	82.80	992.07	3,158.90	2,025.32	1,939.82	85.50	23.688		
10,600.00	7,870.00	9,413.43	7,618.00	114.65	70.99	82.80	892.07	3,158.56	2,025.32	1,940.63	84.69	23.914		
10,700.00	7,870.00	9,513.43	7,618.00	114.41	70.64	82.80	792.07	3,158.22	2,025.33	1,941.31	84.02	24.105		
10,800.00	7,870.00	9,613.43	7,618.00	114.17	70.31	82.80	692.07	3,157.88	2,025.33	1,941.83	83.50	24.256		
10,900.00	7,870.00	9,713.43	7,618.00	113.95	70.00	82.80	592.07	3,157.55	2,025.34	1,942.22	83.12	24.367		
11,000.00	7,870.00	9,813.43	7,618.00	113.75	69.71	82.80	492.07	3,157.21	2,025.34	1,942.45	82.89	24.435		
11,100.00	7,870.00	9,913.43	7,618.00	113.55	69.44	82.80	392.07	3,156.87	2,025.34	1,942.54	82.80	24.459		
11,200.00	7,870.00	10,013.43	7,618.00	113.37	69.19	82.80	292.07	3,156.53	2,025.35	1,942.47	82.87	24.440		
11,300.00	7,870.00	10,113.43	7,618.00	113.20	68.96	82.80	192.07	3,156.19	2,025.35	1,942.26	83.09	24.376		
11,400.00	7,870.00	10,213.43	7,618.00	113.04	68.75	82.80	92.07	3,155.85	2,025.35	1,941.90	83.45	24.270		
11,500.00	7,870.00	10,313.43	7,618.00	112.89	68.56	82.80	-7.93	3,155.51	2,025.36	1,941.40	83.96	24.122		
11,600.00	7,870.00	10,413.43	7,618.00	112.76	68.40	82.80	-107.92	3,155.17	2,025.36	1,940.75	84.61	23.936		
11,700.00	7,870.00	10,513.43	7,618.00	112.64	68.26	82.80	-207.92	3,154.83	2,025.36	1,939.96	85.41	23.714		
11,800.00	7,870.00	10,613.43	7,618.00	112.53	68.14	82.80	-307.92	3,154.49	2,025.37	1,939.03	86.34	23.459		
11,900.00	7,870.00	10,713.43	7,618.00	112.44	68.05	82.80	-407.92	3,154.15	2,025.37	1,937.98	87.40	23.175		
12,000.00	7,870.00	10,813.43	7,618.00	112.36	67.98	82.80	-507.92	3,153.81	2,025.38	1,936.79	88.58	22.864		
12,100.00	7,870.00	10,913.43	7,618.00	112.29	67.95	82.80	-607.92	3,153.47	2,025.38	1,935.49	89.89	22.532		
12,200.00	7,870.00	11,013.43	7,618.00	112.24	67.95	82.80	-707.92	3,153.13	2,025.38	1,934.07	91.32	22.180		
12,300.00	7,870.00	11,113.43	7,618.00	112.20	67.98	82.80	-807.92	3,152.79	2,025.39	1,932.54	92.85	21.813		
12,400.00	7,870.00	11,213.43	7,618.00	112.17	68.05	82.80	-907.92	3,152.45	2,025.39	1,930.90	94.49	21.435		
12,500.00	7,870.00	11,313.43	7,618.00	112.16	68.16	82.80	-1,007.92	3,152.12	2,025.39	1,929.16	96.23	21.047		
12,600.00	7,870.00	11,413.43	7,618.00	112.17	68.32	82.80	-1,107.92	3,151.78	2,025.40	1,927.33	98.07	20.653		
12,700.00	7,870.00	11,513.43	7,618.00	112.19	68.53	82.80	-1,207.92	3,151.44	2,025.40	1,925.41	99.99	20.256		
12,800.00	7,870.00	11,613.43	7,618.00	112.23	68.79	82.80	-1,307.92	3,151.10	2,025.41	1,923.40	102.00	19.857		
12,900.00	7,870.00	11,713.43	7,618.00	112.28	69.11	82.80	-1,407.92	3,150.76	2,025.41	1,921.32	104.09	19.458		
13,000.00	7,870.00	11,813.43	7,618.00	112.36	69.49	82.80	-1,507.92	3,150.42	2,025.41	1,919.16	106.25	19.062		
13,100.00	7,870.00	11,913.43	7,618.00	112.45	69.94	82.80	-1,607.92	3,150.08	2,025.42	1,916.93	108.49	18.670		
13,200.00	7,870.00	12,013.43	7,618.00	112.56	70.46	82.80	-1,707.92	3,149.74	2,025.42	1,914.63	110.79	18.282		
13,300.00	7,870.00	12,113.43	7,618.00	112.68	71.06	82.80	-1,807.91	3,149.40	2,025.42	1,912.27	113.15	17.900		
13,400.00	7,870.00	12,213.43	7,618.00	112.83	71.72	82.80	-1,907.91	3,149.06	2,025.43	1,909.86	115.57	17.526		
13,500.00	7,870.00	12,313.43	7,618.00	113.00	72.46	82.80	-2,007.91	3,148.72	2,025.43	1,907.39	118.05	17.158		
13,600.00	7,870.00	12,413.43	7,618.00	113.19	73.26	82.80	-2,107.91	3,148.38	2,025.44	1,904.86	120.57	16.799		
13,700.00	7,870.00	12,513.43	7,618.00	113.40	74.13	82.80	-2,207.91	3,148.04	2,025.44	1,902.29	123.15	16.448		
13,800.00	7,870.00	12,613.43	7,618.00	113.63	75.06	82.80	-2,307.91	3,147.70	2,025.44	1,899.68	125.77	16.105		
13,900.00	7,870.00	12,713.43	7,618.00	113.89	76.05	82.80	-2,407.91	3,147.36	2,025.45	1,897.02	128.43	15.771		
14,000.00	7,870.00	12,813.43	7,618.00	114.18	77.09	82.80	-2,507.91	3,147.02	2,025.45	1,894.32	131.13	15.446		
14,100.00	7,870.00	12,913.43	7,618.00	114.48	78.18	82.80	-2,607.91	3,146.68	2,025.45	1,891.59	133.87	15.130		
14,200.00	7,870.00	13,013.43	7,618.00	114.82	79.32	82.80	-2,707.91	3,146.35	2,025.46	1,888.81	136.64	14.823		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,300.00	7,870.00	13,113.43	7,618.00	115.18	80.49	82.80	-2,807.91	3,146.01	2,025.46	1,886.01	139.45	14.524		
14,400.00	7,870.00	13,213.43	7,618.00	115.57	81.71	82.80	-2,907.91	3,145.67	2,025.47	1,883.17	142.29	14.235		
14,500.00	7,870.00	13,313.43	7,618.00	115.99	82.95	82.80	-3,007.91	3,145.33	2,025.47	1,880.31	145.16	13.953		
14,600.00	7,870.00	13,413.43	7,618.00	116.44	84.22	82.80	-3,107.91	3,144.99	2,025.47	1,877.42	148.05	13.681		
14,700.00	7,870.00	13,513.43	7,618.00	116.92	85.53	82.80	-3,207.91	3,144.65	2,025.48	1,874.50	150.98	13.416		
14,800.00	7,870.00	13,613.43	7,618.00	117.44	86.85	82.80	-3,307.91	3,144.31	2,025.48	1,871.56	153.92	13.159		
14,900.00	7,870.00	13,713.43	7,618.00	117.98	88.20	82.80	-3,407.91	3,143.97	2,025.48	1,868.59	156.89	12.910		
15,000.00	7,870.00	13,813.43	7,618.00	118.56	89.57	82.80	-3,507.90	3,143.63	2,025.49	1,865.60	159.89	12.668		
15,100.00	7,870.00	13,913.43	7,618.00	119.17	90.96	82.80	-3,607.90	3,143.29	2,025.49	1,862.59	162.90	12.434		
15,200.00	7,870.00	14,013.43	7,618.00	119.81	92.36	82.80	-3,707.90	3,142.95	2,025.49	1,859.56	165.93	12.207		
15,300.00	7,870.00	14,113.43	7,618.00	120.48	93.78	82.80	-3,807.90	3,142.61	2,025.50	1,856.52	168.98	11.987		
15,400.00	7,870.00	14,213.43	7,618.00	121.19	95.22	82.80	-3,907.90	3,142.27	2,025.50	1,853.45	172.05	11.773		
15,500.00	7,870.00	14,313.43	7,618.00	121.93	96.67	82.80	-4,007.90	3,141.93	2,025.51	1,850.37	175.13	11.565		
15,600.00	7,870.00	14,413.43	7,618.00	122.71	98.13	82.80	-4,107.90	3,141.59	2,025.51	1,847.27	178.23	11.364		
15,700.00	7,870.00	14,513.43	7,618.00	123.52	99.60	82.80	-4,207.90	3,141.25	2,025.51	1,844.16	181.35	11.169		
15,800.00	7,870.00	14,613.43	7,618.00	124.36	101.09	82.80	-4,307.90	3,140.92	2,025.52	1,841.04	184.48	10.980		
15,900.00	7,870.00	14,713.43	7,618.00	125.23	102.58	82.80	-4,407.90	3,140.58	2,025.52	1,837.90	187.62	10.796		
16,000.00	7,870.00	14,813.43	7,618.00	126.14	104.09	82.80	-4,507.90	3,140.24	2,025.52	1,834.74	190.78	10.617		
16,100.00	7,870.00	14,913.43	7,618.00	127.07	105.60	82.80	-4,607.90	3,139.90	2,025.53	1,831.58	193.95	10.444		
16,200.00	7,870.00	15,013.43	7,618.00	128.04	107.13	82.80	-4,707.90	3,139.56	2,025.53	1,828.40	197.13	10.275		
16,300.00	7,870.00	15,113.43	7,618.00	129.04	108.66	82.80	-4,807.90	3,139.22	2,025.54	1,825.22	200.32	10.112		
16,400.00	7,870.00	15,213.43	7,618.00	130.06	110.20	82.80	-4,907.90	3,138.88	2,025.54	1,822.02	203.52	9.952		
16,500.00	7,870.00	15,313.43	7,618.00	131.11	111.74	82.80	-5,007.90	3,138.54	2,025.54	1,818.81	206.73	9.798		
16,600.00	7,870.00	15,413.43	7,618.00	132.19	113.30	82.80	-5,107.90	3,138.20	2,025.55	1,815.59	209.95	9.648		
16,700.00	7,870.00	15,513.43	7,618.00	133.29	114.86	82.80	-5,207.90	3,137.86	2,025.55	1,812.37	213.18	9.501		
16,800.00	7,870.00	15,613.43	7,618.00	134.42	116.42	82.80	-5,307.89	3,137.52	2,025.55	1,809.13	216.42	9.359		
16,900.00	7,870.00	15,713.43	7,618.00	135.57	117.99	82.80	-5,407.89	3,137.18	2,025.56	1,805.89	219.67	9.221		
17,000.00	7,870.00	15,813.44	7,618.00	136.75	119.57	82.80	-5,507.89	3,136.84	2,025.56	1,802.63	222.93	9.086		
17,100.00	7,870.00	15,913.44	7,618.00	137.94	121.15	82.80	-5,607.89	3,136.50	2,025.57	1,799.38	226.19	8.955		
17,200.00	7,870.00	16,013.44	7,618.00	139.16	122.74	82.80	-5,707.89	3,136.16	2,025.57	1,796.11	229.46	8.828		
17,300.00	7,870.00	16,113.44	7,618.00	140.39	124.34	82.80	-5,807.89	3,135.82	2,025.57	1,792.83	232.74	8.703		
17,400.00	7,870.00	16,213.44	7,618.00	141.65	125.93	82.80	-5,907.89	3,135.49	2,025.58	1,789.55	236.02	8.582		
17,500.00	7,870.00	16,313.44	7,618.00	142.92	127.54	82.80	-6,007.89	3,135.15	2,025.58	1,786.27	239.31	8.464		
17,600.00	7,870.00	16,413.44	7,618.00	144.21	129.14	82.80	-6,107.89	3,134.81	2,025.58	1,782.97	242.61	8.349		
17,700.00	7,870.00	16,513.44	7,618.00	145.52	130.75	82.80	-6,207.89	3,134.47	2,025.59	1,779.67	245.91	8.237		
17,800.00	7,870.00	16,613.44	7,618.00	146.84	132.37	82.80	-6,307.89	3,134.13	2,025.59	1,776.37	249.22	8.128		
17,900.00	7,870.00	16,713.44	7,618.00	148.18	133.99	82.80	-6,407.89	3,133.79	2,025.59	1,773.06	252.54	8.021		
18,000.00	7,870.00	16,813.44	7,618.00	149.54	135.61	82.80	-6,507.89	3,133.45	2,025.60	1,769.74	255.86	7.917		
18,100.00	7,870.00	16,913.44	7,618.00	150.90	137.23	82.80	-6,607.89	3,133.11	2,025.60	1,766.42	259.18	7.815		
18,200.00	7,870.00	17,013.44	7,618.00	152.28	138.86	82.80	-6,707.89	3,132.77	2,025.61	1,763.10	262.51	7.716		
18,300.00	7,870.00	17,113.44	7,618.00	153.67	140.49	82.80	-6,807.89	3,132.43	2,025.61	1,759.77	265.84	7.620		
18,400.00	7,870.00	17,213.44	7,618.00	155.07	142.13	82.80	-6,907.89	3,132.09	2,025.61	1,756.43	269.18	7.525		
18,500.00	7,870.00	17,313.44	7,618.00	156.49	143.77	82.80	-7,007.88	3,131.75	2,025.62	1,753.09	272.53	7.433		
18,600.00	7,870.00	17,413.44	7,618.00	157.91	145.41	82.80	-7,107.88	3,131.41	2,025.62	1,749.75	275.87	7.343		
18,700.00	7,870.00	17,513.44	7,618.00	159.35	147.05	82.80	-7,207.88	3,131.07	2,025.62	1,746.40	279.22	7.254		
18,800.00	7,870.00	17,613.44	7,618.00	160.79	148.70	82.80	-7,307.88	3,130.73	2,025.63	1,743.05	282.58	7.168		
18,900.00	7,870.00	17,713.44	7,618.00	162.25	150.35	82.80	-7,407.88	3,130.39	2,025.63	1,739.69	285.94	7.084		
19,000.00	7,870.00	17,813.44	7,618.00	163.71	152.00	82.80	-7,507.88	3,130.05	2,025.64	1,736.34	289.30	7.002		
19,100.00	7,870.00	17,913.44	7,618.00	165.18	153.66	82.80	-7,607.88	3,129.72	2,025.64	1,732.97	292.67	6.921		
19,200.00	7,870.00	18,013.44	7,618.00	166.66	155.31	82.80	-7,707.88	3,129.38	2,025.64	1,729.61	296.04	6.843		
19,300.00	7,870.00	18,113.44	7,618.00	168.15	156.97	82.80	-7,807.88	3,129.04	2,025.65	1,726.24	299.41	6.766		
19,400.00	7,870.00	18,213.44	7,618.00	169.65	158.63	82.80	-7,907.88	3,128.70	2,025.65	1,722.87	302.78	6.690		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,500.00	7,870.00	18,313.44	7,618.00	171.15	160.30	82.80	-8,007.88	3,128.36	2,025.65	1,719.49	306.16	6.616	
19,600.00	7,870.00	18,413.44	7,618.00	172.66	161.96	82.80	-8,107.88	3,128.02	2,025.66	1,716.11	309.54	6.544	
19,700.00	7,870.00	18,513.44	7,618.00	174.18	163.63	82.80	-8,207.88	3,127.68	2,025.66	1,712.73	312.93	6.473	
19,800.00	7,870.00	18,613.44	7,618.00	175.70	165.30	82.80	-8,307.88	3,127.34	2,025.67	1,709.35	316.32	6.404	
19,889.26	7,870.00	18,702.69	7,618.00	177.06	166.79	82.80	-8,397.13	3,127.04	2,025.67	1,706.33	319.34	6.343 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	-89.58	0.36	-50.12	50.12					
100.00	100.00	101.00	101.00	0.13	0.14	-89.58	0.36	-50.12	50.12	49.85	0.27	183.975		
200.00	200.00	201.00	201.00	0.49	0.50	-89.58	0.36	-50.12	50.12	49.13	0.99	50.660		
300.00	300.00	301.00	301.00	0.85	0.85	-89.58	0.36	-50.12	50.12	48.42	1.71	29.374 CC, ES		
400.00	399.98	400.98	400.98	1.21	1.21	-158.45	0.36	-50.12	51.74	49.32	2.42	21.388		
500.00	499.84	500.84	500.84	1.56	1.57	-160.36	0.36	-50.12	56.64	53.51	3.13	18.073		
600.00	599.45	600.45	600.45	1.93	1.93	-162.90	0.36	-50.12	64.92	61.07	3.85	16.850		
700.00	698.70	700.30	699.70	2.32	2.29	-165.52	0.36	-50.12	76.65	72.08	4.58	16.753		
800.00	797.47	798.47	798.47	2.72	2.64	-167.89	0.36	-50.12	91.89	86.59	5.30	17.353		
900.00	895.62	900.26	900.24	3.16	3.00	-169.67	1.25	-48.61	109.03	103.00	6.02	18.107		
1,000.00	993.06	1,002.73	1,002.56	3.63	3.36	-170.72	3.99	-43.94	126.28	119.53	6.75	18.713		
1,100.00	1,089.64	1,105.85	1,105.27	4.14	3.73	-171.29	8.62	-36.05	143.59	136.11	7.48	19.192		
1,200.00	1,185.27	1,209.61	1,208.22	4.70	4.12	-171.53	15.16	-24.91	160.91	152.69	8.22	19.568		
1,300.00	1,279.82	1,314.02	1,311.27	5.31	4.52	-171.53	23.65	-10.46	178.20	169.23	8.97	19.859		
1,400.00	1,373.17	1,419.08	1,414.27	5.97	4.96	-171.36	34.10	7.34	195.45	185.72	9.73	20.079		
1,500.00	1,465.21	1,524.79	1,517.08	6.69	5.42	-171.06	46.53	28.53	212.63	202.12	10.51	20.233		
1,600.00	1,555.84	1,631.15	1,619.54	7.47	5.93	-170.64	60.97	53.13	229.73	218.43	11.30	20.327		
1,700.00	1,644.94	1,738.16	1,721.49	8.31	6.49	-170.14	77.44	81.18	246.74	234.62	12.12	20.365		
1,800.00	1,732.39	1,845.82	1,822.75	9.23	7.10	-169.56	95.93	112.69	263.63	250.67	12.96	20.349		
1,900.00	1,818.11	1,954.12	1,923.16	10.21	7.78	-168.92	116.47	147.67	280.40	266.57	13.83	20.280		
2,000.00	1,901.97	2,063.07	2,022.54	11.26	8.53	-168.23	139.05	186.14	297.03	282.29	14.73	20.159		
2,100.00	1,983.88	2,172.64	2,120.72	12.38	9.35	-167.49	163.68	228.09	313.52	297.83	15.69	19.985		
2,200.00	2,063.74	2,282.84	2,217.51	13.57	10.25	-166.70	190.34	273.52	329.85	313.15	16.69	19.760		
2,300.00	2,141.45	2,393.66	2,312.73	14.84	11.24	-165.89	219.04	322.40	346.01	328.25	17.76	19.483		
2,327.78	2,162.65	2,424.56	2,338.88	15.21	11.53	-165.65	227.37	336.59	350.47	332.40	18.07	19.394		
2,400.00	2,217.51	2,505.22	2,406.30	16.17	12.32	-165.05	249.78	374.78	361.13	342.23	18.90	19.107		
2,500.00	2,293.49	2,604.11	2,488.19	17.51	13.32	-164.28	277.84	422.58	374.66	354.50	20.16	18.580		
2,600.00	2,369.47	2,703.07	2,570.14	18.86	14.35	-163.57	305.92	470.42	388.26	366.79	21.47	18.086		
2,700.00	2,445.45	2,802.03	2,652.09	20.22	15.39	-162.90	334.00	518.25	401.92	379.11	22.81	17.621		
2,800.00	2,521.42	2,900.98	2,734.04	21.59	16.45	-162.28	362.08	566.09	415.62	391.44	24.18	17.187		
2,900.00	2,597.40	2,999.94	2,815.99	22.97	17.51	-161.69	390.17	613.92	429.37	403.78	25.58	16.782		
3,000.00	2,673.38	3,101.10	2,897.94	24.34	18.61	-161.15	418.25	661.76	443.16	416.13	27.03	16.396		
3,100.00	2,749.36	3,202.14	2,979.90	25.73	19.72	-160.63	446.33	709.60	456.99	428.49	28.50	16.037		
3,200.00	2,825.33	3,296.82	3,061.85	27.11	20.76	-160.15	474.41	757.43	470.85	440.90	29.94	15.724		
3,300.00	2,901.31	3,404.22	3,143.80	28.50	21.94	-159.69	502.49	805.27	484.74	453.24	31.50	15.390		
3,400.00	2,977.29	3,505.26	3,225.75	29.90	23.06	-159.26	530.57	853.10	498.66	465.64	33.03	15.099		
3,500.00	3,053.27	3,606.31	3,307.70	31.29	24.19	-158.85	558.65	900.94	512.61	478.04	34.57	14.827		
3,600.00	3,129.24	3,707.35	3,389.65	32.69	25.31	-158.47	586.73	948.77	526.58	490.45	36.13	14.573		
3,700.00	3,205.22	3,791.61	3,471.60	34.08	26.26	-158.10	614.81	996.61	540.58	502.98	37.59	14.379		
3,800.00	3,281.20	3,909.43	3,553.55	35.48	27.58	-157.75	642.89	1,044.45	554.59	515.29	39.30	14.112		
3,900.00	3,357.18	3,989.53	3,635.51	36.88	28.48	-157.42	670.97	1,092.28	568.62	527.87	40.75	13.953		
4,000.00	3,433.15	4,088.49	3,717.46	38.29	29.59	-157.11	699.05	1,140.12	582.67	540.32	42.35	13.758		
4,100.00	3,509.13	4,187.44	3,799.41	39.69	30.71	-156.81	727.13	1,187.95	596.74	552.79	43.96	13.576		
4,200.00	3,585.11	4,286.40	3,881.36	41.09	31.82	-156.52	755.21	1,235.79	610.82	565.25	45.57	13.403		
4,300.00	3,661.08	4,385.36	3,963.31	42.50	32.94	-156.25	783.29	1,283.63	624.92	577.72	47.20	13.241		
4,400.00	3,737.06	4,484.32	4,045.26	43.90	34.06	-155.99	811.37	1,331.46	639.03	590.20	48.83	13.087		
4,500.00	3,813.04	4,583.28	4,127.21	45.31	35.18	-155.74	839.45	1,379.30	653.15	602.69	50.47	12.942		
4,600.00	3,889.02	4,682.24	4,209.16	46.71	36.30	-155.50	867.53	1,427.13	667.29	615.17	52.12	12.804		
4,700.00	3,964.99	4,781.20	4,291.12	48.12	37.42	-155.27	895.61	1,474.97	681.43	627.67	53.77	12.673		
4,800.00	4,040.97	4,880.15	4,373.07	49.53	38.55	-155.05	923.69	1,522.81	695.59	640.16	55.43	12.549		
4,900.00	4,116.95	4,979.11	4,455.02	50.94	39.67	-154.84	951.77	1,570.64	709.75	652.66	57.09	12.432		
5,000.00	4,192.93	5,078.07	4,536.97	52.35	40.80	-154.64	979.85	1,618.48	723.93	665.17	58.76	12.320		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,268.90	5,177.03	4,618.92	53.76	41.92	-154.44	1,007.93	1,666.31	738.11	677.67	60.44	12.213		
5,200.00	4,344.88	5,275.99	4,700.87	55.16	43.05	-154.26	1,036.01	1,714.15	752.30	690.19	62.12	12.111		
5,300.00	4,420.86	5,374.95	4,782.82	56.57	44.18	-154.08	1,064.09	1,761.99	766.50	702.70	63.80	12.014		
5,400.00	4,496.84	5,473.91	4,864.78	57.98	45.30	-153.90	1,092.17	1,809.82	780.71	715.22	65.49	11.921		
5,500.00	4,572.81	5,572.86	4,946.73	59.39	46.43	-153.73	1,120.25	1,857.66	794.92	727.74	67.18	11.833		
5,600.00	4,648.79	5,671.82	5,028.68	60.81	47.56	-153.57	1,148.33	1,905.49	809.14	740.26	68.88	11.748		
5,700.00	4,724.77	5,770.78	5,110.63	62.22	48.69	-153.41	1,176.41	1,953.33	823.36	752.79	70.58	11.666		
5,800.00	4,800.74	5,869.74	5,192.58	63.63	49.82	-153.26	1,204.49	2,001.16	837.59	765.32	72.28	11.589		
5,900.00	4,876.72	5,968.70	5,274.53	65.04	50.95	-153.12	1,232.57	2,049.00	851.83	777.85	73.98	11.514		
6,000.00	4,952.70	6,067.66	5,356.48	66.45	52.08	-152.98	1,260.65	2,096.84	866.07	790.38	75.69	11.442		
6,100.00	5,028.68	6,166.61	5,438.43	67.86	53.21	-152.84	1,288.73	2,144.67	880.32	802.92	77.40	11.373		
6,200.00	5,104.65	6,265.57	5,520.39	69.27	54.34	-152.71	1,316.81	2,192.51	894.57	815.46	79.11	11.307		
6,300.00	5,180.63	6,364.53	5,602.34	70.69	55.47	-152.58	1,344.89	2,240.34	908.83	828.00	80.83	11.244		
6,400.00	5,256.61	6,463.49	5,684.29	72.10	56.60	-152.45	1,372.97	2,288.18	923.09	840.54	82.55	11.182		
6,500.00	5,332.59	6,562.45	5,766.24	73.51	57.73	-152.33	1,401.05	2,336.02	937.35	853.08	84.27	11.123		
6,600.00	5,408.56	6,661.41	5,848.19	74.92	58.86	-152.22	1,429.13	2,383.85	951.62	865.63	85.99	11.066		
6,700.00	5,484.54	6,760.37	5,930.14	76.34	59.99	-152.10	1,457.21	2,431.69	965.89	878.17	87.72	11.012		
6,800.00	5,560.52	6,859.32	6,012.09	77.75	61.13	-151.99	1,485.29	2,479.52	980.17	890.72	89.44	10.959		
6,900.00	5,636.50	6,958.28	6,094.04	79.16	62.26	-151.89	1,513.37	2,527.36	994.45	903.27	91.17	10.907		
7,000.00	5,712.47	7,057.24	6,176.00	80.57	63.39	-151.78	1,541.45	2,575.20	1,008.73	915.83	92.90	10.858		
7,100.00	5,788.45	7,156.20	6,257.95	81.99	64.52	-151.68	1,569.53	2,623.03	1,023.01	928.38	94.63	10.810		
7,200.00	5,864.43	7,255.16	6,339.90	83.40	65.65	-151.58	1,597.61	2,670.87	1,037.30	940.94	96.37	10.764		
7,300.00	5,940.40	7,354.12	6,421.85	84.81	66.79	-151.49	1,625.69	2,718.70	1,051.59	953.49	98.10	10.720		
7,400.00	6,016.38	7,453.07	6,503.80	86.23	67.92	-151.40	1,653.77	2,766.54	1,065.89	966.05	99.84	10.676		
7,500.00	6,092.36	7,552.03	6,585.75	87.64	69.05	-151.30	1,681.85	2,814.37	1,080.18	978.61	101.57	10.634		
7,600.00	6,168.34	7,650.99	6,667.70	89.05	70.19	-151.22	1,709.93	2,862.21	1,094.48	991.17	103.31	10.594		
7,700.00	6,244.31	7,749.95	6,749.65	90.47	71.32	-151.13	1,738.01	2,910.05	1,108.79	1,003.73	105.05	10.554		
7,800.00	6,320.29	7,848.91	6,831.61	91.88	72.45	-151.05	1,766.09	2,957.88	1,123.09	1,016.29	106.80	10.516		
7,900.00	6,396.27	7,947.87	6,913.56	93.30	73.59	-150.97	1,794.17	3,005.72	1,137.40	1,028.86	108.54	10.479		
8,000.00	6,472.25	8,046.83	6,995.51	94.71	74.72	-150.89	1,822.25	3,053.55	1,151.71	1,041.42	110.28	10.443		
8,100.00	6,548.22	8,145.78	7,077.46	96.12	75.86	-150.81	1,850.33	3,101.39	1,166.02	1,053.99	112.03	10.408		
8,200.00	6,624.20	8,287.46	7,197.22	97.54	77.39	-151.33	1,877.84	3,171.25	1,178.88	1,065.77	113.10	10.423		
8,300.00	6,700.18	8,427.07	7,317.43	98.95	78.61	-153.40	1,871.25	3,241.26	1,188.06	1,076.99	111.06	10.697		
8,400.00	6,776.16	8,542.25	7,413.24	100.37	79.33	-156.20	1,840.62	3,296.97	1,195.84	1,088.36	107.48	11.126		
8,500.00	6,852.13	8,632.06	7,483.16	101.78	79.70	-158.98	1,801.71	3,337.57	1,204.98	1,101.12	103.86	11.602		
8,600.00	6,928.11	8,700.90	7,532.71	103.20	79.88	-161.41	1,763.61	3,366.30	1,217.65	1,116.89	100.76	12.084		
8,700.00	7,004.09	8,753.93	7,567.98	104.61	79.96	-163.44	1,729.73	3,386.74	1,235.24	1,137.08	98.16	12.584		
8,800.00	7,080.06	8,795.37	7,593.58	106.02	79.98	-165.10	1,700.72	3,401.56	1,258.48	1,162.60	95.89	13.125		
8,900.00	7,156.04	8,828.33	7,612.61	107.44	79.98	-166.46	1,676.16	3,412.56	1,287.69	1,193.92	93.77	13.732		
9,000.00	7,232.02	8,850.00	7,624.44	108.85	79.97	-167.37	1,659.35	3,419.39	1,322.86	1,230.95	91.91	14.393		
9,104.68	7,311.55	8,877.88	7,638.85	110.33	79.95	-168.56	1,636.97	3,427.71	1,365.79	1,276.21	89.58	15.247		
9,150.00	7,346.29	8,887.40	7,643.55	110.97	79.94	-176.45	1,629.15	3,430.42	1,386.05	1,297.37	88.68	15.630		
9,200.00	7,385.15	8,900.00	7,649.59	111.65	79.93	174.40	1,618.66	3,433.91	1,409.07	1,321.34	87.73	16.062		
9,250.00	7,424.29	8,911.67	7,655.02	112.31	79.91	165.10	1,608.81	3,437.03	1,432.51	1,345.60	86.91	16.482		
9,300.00	7,463.40	8,925.20	7,661.09	112.93	79.88	155.79	1,597.23	3,440.53	1,456.12	1,369.97	86.15	16.902		
9,350.00	7,502.19	8,950.00	7,671.59	113.51	79.84	146.43	1,575.60	3,446.57	1,479.70	1,394.56	85.15	17.378		
9,400.00	7,540.36	8,950.00	7,671.59	114.04	79.84	138.33	1,575.60	3,446.57	1,502.81	1,417.81	85.00	17.679		
9,450.00	7,577.62	8,969.96	7,679.45	114.53	79.80	130.28	1,557.82	3,451.09	1,525.41	1,441.04	84.36	18.082		
9,500.00	7,613.70	8,985.98	7,685.37	114.95	79.76	123.07	1,543.33	3,454.49	1,547.25	1,463.29	83.95	18.430		
9,550.00	7,648.30	9,000.00	7,690.26	115.32	79.73	116.64	1,530.49	3,457.30	1,568.13	1,484.39	83.74	18.727		
9,600.00	7,681.18	9,019.26	7,696.53	115.63	79.68	110.86	1,512.64	3,460.89	1,587.87	1,504.40	83.47	19.024		
9,650.00	7,712.08	9,036.42	7,701.69	115.88	79.63	105.83	1,496.54	3,463.84	1,606.31	1,522.91	83.40	19.260		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,700.00	7,740.76	9,050.00	7,705.47	116.08	79.59	101.51	1,483.68	3,466.00	1,623.33	1,539.70	83.63	19.410		
9,750.00	7,767.01	9,071.55	7,710.92	116.23	79.53	97.71	1,463.07	3,469.11	1,638.77	1,555.08	83.69	19.583		
9,800.00	7,790.63	9,100.00	7,717.09	116.33	79.43	94.43	1,435.52	3,472.61	1,652.63	1,569.07	83.55	19.779		
9,850.00	7,811.44	9,100.00	7,717.09	116.38	79.43	91.92	1,435.52	3,472.61	1,664.58	1,579.65	84.93	19.600		
9,900.00	7,829.28	9,125.72	7,721.65	116.38	79.34	89.70	1,410.33	3,475.18	1,674.68	1,589.46	85.22	19.651		
9,950.00	7,844.01	9,150.00	7,725.04	116.35	79.26	87.95	1,386.37	3,477.08	1,682.93	1,597.21	85.72	19.633		
10,000.00	7,855.52	9,150.00	7,725.04	116.28	79.26	86.72	1,386.37	3,477.08	1,689.27	1,601.52	87.75	19.251		
10,050.00	7,863.72	9,180.95	7,728.10	116.18	79.13	85.81	1,355.63	3,478.75	1,693.38	1,605.22	88.15	19.209		
10,100.00	7,868.56	9,200.00	7,729.27	116.06	79.06	85.33	1,336.62	3,479.37	1,695.56	1,606.17	89.39	18.968		
10,145.94	7,870.00	9,216.49	7,729.84	115.92	78.99	85.22	1,320.15	3,479.64	1,695.76	1,605.05	90.71	18.695		
10,180.37	7,870.00	9,236.22	7,730.00	115.82	78.91	85.23	1,310.59	3,479.71	1,695.47	1,603.60	91.87	18.456		
10,200.00	7,870.00	9,245.68	7,730.00	115.76	78.87	85.23	1,290.96	3,479.64	1,695.47	1,603.78	91.69	18.492		
10,300.00	7,870.00	9,345.68	7,730.00	115.46	78.47	85.23	1,190.96	3,479.30	1,695.47	1,604.93	90.54	18.726		
10,400.00	7,870.00	9,445.68	7,730.00	115.18	78.09	85.23	1,090.96	3,478.96	1,695.47	1,605.97	89.51	18.942		
10,500.00	7,870.00	9,545.68	7,730.00	114.91	77.72	85.23	990.96	3,478.63	1,695.48	1,606.87	88.61	19.134		
10,600.00	7,870.00	9,645.68	7,730.00	114.65	77.37	85.23	890.96	3,478.29	1,695.48	1,607.64	87.84	19.302		
10,700.00	7,870.00	9,745.68	7,730.00	114.41	77.05	85.23	790.96	3,477.95	1,695.48	1,608.27	87.21	19.442		
10,800.00	7,870.00	9,845.68	7,730.00	114.17	76.74	85.23	690.96	3,477.61	1,695.48	1,608.77	86.72	19.552		
10,900.00	7,870.00	9,945.68	7,730.00	113.95	76.45	85.23	590.96	3,477.28	1,695.49	1,609.12	86.36	19.632		
11,000.00	7,870.00	10,045.68	7,730.00	113.75	76.17	85.23	490.96	3,476.94	1,695.49	1,609.33	86.16	19.679		
11,100.00	7,870.00	10,145.68	7,730.00	113.55	75.92	85.23	390.96	3,476.60	1,695.49	1,609.40	86.09	19.694		
11,200.00	7,870.00	10,245.68	7,730.00	113.37	75.69	85.23	290.96	3,476.26	1,695.49	1,609.32	86.18	19.675		
11,300.00	7,870.00	10,345.68	7,730.00	113.20	75.47	85.23	190.96	3,475.92	1,695.49	1,609.09	86.40	19.624		
11,400.00	7,870.00	10,445.68	7,730.00	113.04	75.27	85.23	90.96	3,475.59	1,695.50	1,608.73	86.77	19.540		
11,500.00	7,870.00	10,545.68	7,730.00	112.89	75.10	85.23	-9.04	3,475.25	1,695.50	1,608.22	87.28	19.426		
11,600.00	7,870.00	10,645.68	7,730.00	112.76	74.94	85.23	-109.04	3,474.91	1,695.50	1,607.57	87.93	19.283		
11,700.00	7,870.00	10,745.68	7,730.00	112.64	74.80	85.23	-209.03	3,474.57	1,695.50	1,606.79	88.71	19.113		
11,800.00	7,870.00	10,845.68	7,730.00	112.53	74.69	85.23	-309.03	3,474.23	1,695.51	1,605.88	89.63	18.917		
11,900.00	7,870.00	10,945.68	7,730.00	112.44	74.60	85.23	-409.03	3,473.90	1,695.51	1,604.84	90.67	18.700		
12,000.00	7,870.00	11,045.68	7,730.00	112.36	74.53	85.23	-509.03	3,473.56	1,695.51	1,603.67	91.84	18.462		
12,100.00	7,870.00	11,145.68	7,730.00	112.29	74.49	85.23	-609.03	3,473.22	1,695.51	1,602.39	93.12	18.207		
12,200.00	7,870.00	11,245.68	7,730.00	112.24	74.47	85.23	-709.03	3,472.88	1,695.51	1,600.99	94.52	17.937		
12,300.00	7,870.00	11,345.68	7,730.00	112.20	74.48	85.23	-809.03	3,472.55	1,695.52	1,599.48	96.03	17.655		
12,400.00	7,870.00	11,445.68	7,730.00	112.17	74.53	85.23	-909.03	3,472.21	1,695.52	1,597.87	97.65	17.364		
12,500.00	7,870.00	11,545.68	7,730.00	112.16	74.60	85.23	-1,009.03	3,471.87	1,695.52	1,596.16	99.36	17.065		
12,600.00	7,870.00	11,645.68	7,730.00	112.17	74.71	85.23	-1,109.03	3,471.53	1,695.52	1,594.36	101.16	16.760		
12,700.00	7,870.00	11,745.68	7,730.00	112.19	74.86	85.23	-1,209.03	3,471.19	1,695.53	1,592.47	103.06	16.452		
12,800.00	7,870.00	11,845.68	7,730.00	112.23	75.05	85.23	-1,309.03	3,470.86	1,695.53	1,590.49	105.04	16.142		
12,900.00	7,870.00	11,945.68	7,730.00	112.28	75.28	85.23	-1,409.03	3,470.52	1,695.53	1,588.44	107.09	15.832		
13,000.00	7,870.00	12,045.68	7,730.00	112.36	75.56	85.23	-1,509.03	3,470.18	1,695.53	1,586.31	109.23	15.523		
13,100.00	7,870.00	12,145.68	7,730.00	112.45	75.89	85.23	-1,609.03	3,469.84	1,695.53	1,584.11	111.43	15.216		
13,200.00	7,870.00	12,245.68	7,730.00	112.56	76.27	85.23	-1,709.03	3,469.50	1,695.54	1,581.84	113.70	14.913		
13,300.00	7,870.00	12,345.68	7,730.00	112.68	76.71	85.23	-1,809.03	3,469.17	1,695.54	1,579.51	116.03	14.613		
13,400.00	7,870.00	12,445.68	7,730.00	112.83	77.21	85.23	-1,909.03	3,468.83	1,695.54	1,577.12	118.42	14.318		
13,500.00	7,870.00	12,545.68	7,730.00	113.00	77.76	85.23	-2,009.02	3,468.49	1,695.54	1,574.68	120.87	14.028		
13,600.00	7,870.00	12,645.68	7,730.00	113.19	78.38	85.23	-2,109.02	3,468.15	1,695.55	1,572.18	123.36	13.744		
13,700.00	7,870.00	12,745.68	7,730.00	113.40	79.06	85.23	-2,209.02	3,467.82	1,695.55	1,569.64	125.91	13.466		
13,800.00	7,870.00	12,845.68	7,730.00	113.63	79.80	85.23	-2,309.02	3,467.48	1,695.55	1,567.05	128.50	13.194		
13,900.00	7,870.00	12,945.68	7,730.00	113.89	80.59	85.23	-2,409.02	3,467.14	1,695.55	1,564.41	131.14	12.929		
14,000.00	7,870.00	13,045.68	7,730.00	114.18	81.45	85.23	-2,509.02	3,466.80	1,695.55	1,561.74	133.82	12.671		
14,100.00	7,870.00	13,145.68	7,730.00	114.48	82.36	85.23	-2,609.02	3,466.46	1,695.56	1,559.02	136.53	12.419		
14,200.00	7,870.00	13,245.68	7,730.00	114.82	83.32	85.23	-2,709.02	3,466.13	1,695.56	1,556.27	139.29	12.173		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1G-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,300.00	7,870.00	13,345.68	7,730.00	115.18	84.33	85.23	-2,809.02	3,465.79	1,695.56	1,553.49	142.07	11.934		
14,400.00	7,870.00	13,445.68	7,730.00	115.57	85.38	85.23	-2,909.02	3,465.45	1,695.56	1,550.67	144.89	11.702		
14,500.00	7,870.00	13,545.68	7,730.00	115.99	86.48	85.23	-3,009.02	3,465.11	1,695.57	1,547.83	147.74	11.477		
14,600.00	7,870.00	13,645.68	7,730.00	116.44	87.62	85.23	-3,109.02	3,464.77	1,695.57	1,544.95	150.62	11.258		
14,700.00	7,870.00	13,745.68	7,730.00	116.92	88.79	85.23	-3,209.02	3,464.44	1,695.57	1,542.05	153.52	11.045		
14,800.00	7,870.00	13,845.68	7,730.00	117.44	90.00	85.23	-3,309.02	3,464.10	1,695.57	1,539.12	156.45	10.838		
14,900.00	7,870.00	13,945.68	7,730.00	117.98	91.23	85.23	-3,409.02	3,463.76	1,695.57	1,536.17	159.40	10.637		
15,000.00	7,870.00	14,045.68	7,730.00	118.56	92.50	85.23	-3,509.02	3,463.42	1,695.58	1,533.20	162.38	10.442		
15,100.00	7,870.00	14,145.68	7,730.00	119.17	93.79	85.23	-3,609.02	3,463.09	1,695.58	1,530.20	165.38	10.253		
15,200.00	7,870.00	14,245.68	7,730.00	119.81	95.10	85.23	-3,709.01	3,462.75	1,695.58	1,527.19	168.39	10.069		
15,300.00	7,870.00	14,345.68	7,730.00	120.48	96.44	85.23	-3,809.01	3,462.41	1,695.58	1,524.15	171.43	9.891		
15,400.00	7,870.00	14,445.68	7,730.00	121.19	97.79	85.23	-3,909.01	3,462.07	1,695.59	1,521.10	174.49	9.717		
15,500.00	7,870.00	14,545.68	7,730.00	121.93	99.17	85.23	-4,009.01	3,461.73	1,695.59	1,518.03	177.56	9.549		
15,600.00	7,870.00	14,645.68	7,730.00	122.71	100.56	85.23	-4,109.01	3,461.40	1,695.59	1,514.94	180.65	9.386		
15,700.00	7,870.00	14,745.68	7,730.00	123.52	101.97	85.23	-4,209.01	3,461.06	1,695.59	1,511.84	183.76	9.227		
15,800.00	7,870.00	14,845.68	7,730.00	124.36	103.39	85.23	-4,309.01	3,460.72	1,695.59	1,508.72	186.88	9.073		
15,900.00	7,870.00	14,945.68	7,730.00	125.23	104.83	85.23	-4,409.01	3,460.38	1,695.60	1,505.59	190.01	8.924		
16,000.00	7,870.00	15,045.68	7,730.00	126.14	106.28	85.23	-4,509.01	3,460.04	1,695.60	1,502.44	193.16	8.778		
16,100.00	7,870.00	15,145.68	7,730.00	127.07	107.74	85.23	-4,609.01	3,459.71	1,695.60	1,499.28	196.32	8.637		
16,200.00	7,870.00	15,245.68	7,730.00	128.04	109.22	85.23	-4,709.01	3,459.37	1,695.60	1,496.11	199.49	8.500		
16,300.00	7,870.00	15,345.68	7,730.00	129.04	110.70	85.23	-4,809.01	3,459.03	1,695.61	1,492.93	202.67	8.366		
16,400.00	7,870.00	15,445.68	7,730.00	130.06	112.19	85.23	-4,909.01	3,458.69	1,695.61	1,489.74	205.87	8.236		
16,500.00	7,870.00	15,545.68	7,730.00	131.11	113.70	85.23	-5,009.01	3,458.36	1,695.61	1,486.53	209.08	8.110		
16,600.00	7,870.00	15,645.68	7,730.00	132.19	115.21	85.23	-5,109.01	3,458.02	1,695.61	1,483.32	212.29	7.987		
16,700.00	7,870.00	15,745.68	7,730.00	133.29	116.73	85.23	-5,209.01	3,457.68	1,695.61	1,480.10	215.52	7.868		
16,800.00	7,870.00	15,845.68	7,730.00	134.42	118.26	85.23	-5,309.01	3,457.34	1,695.62	1,476.86	218.75	7.751		
16,900.00	7,870.00	15,945.68	7,730.00	135.57	119.80	85.23	-5,409.01	3,457.00	1,695.62	1,473.62	221.99	7.638		
17,000.00	7,870.00	16,045.68	7,730.00	136.75	121.34	85.23	-5,509.00	3,456.67	1,695.62	1,470.37	225.25	7.528		
17,100.00	7,870.00	16,145.68	7,730.00	137.94	122.89	85.23	-5,609.00	3,456.33	1,695.62	1,467.12	228.51	7.420		
17,200.00	7,870.00	16,245.68	7,730.00	139.16	124.45	85.23	-5,709.00	3,455.99	1,695.62	1,463.85	231.77	7.316		
17,300.00	7,870.00	16,345.68	7,730.00	140.39	126.01	85.23	-5,809.00	3,455.65	1,695.63	1,460.58	235.05	7.214		
17,400.00	7,870.00	16,445.68	7,730.00	141.65	127.58	85.23	-5,909.00	3,455.31	1,695.63	1,457.30	238.33	7.115		
17,500.00	7,870.00	16,545.68	7,730.00	142.92	129.15	85.23	-6,009.00	3,454.98	1,695.63	1,454.01	241.62	7.018		
17,600.00	7,870.00	16,645.68	7,730.00	144.21	130.73	85.23	-6,109.00	3,454.64	1,695.63	1,450.72	244.92	6.923		
17,700.00	7,870.00	16,745.68	7,730.00	145.52	132.32	85.23	-6,209.00	3,454.30	1,695.64	1,447.42	248.22	6.831		
17,800.00	7,870.00	16,845.68	7,730.00	146.84	133.90	85.23	-6,309.00	3,453.96	1,695.64	1,444.11	251.53	6.741		
17,900.00	7,870.00	16,945.68	7,730.00	148.18	135.50	85.23	-6,409.00	3,453.63	1,695.64	1,440.80	254.84	6.654		
18,000.00	7,870.00	17,045.68	7,730.00	149.54	137.10	85.23	-6,509.00	3,453.29	1,695.64	1,437.48	258.16	6.568		
18,100.00	7,870.00	17,145.68	7,730.00	150.90	138.70	85.23	-6,609.00	3,452.95	1,695.64	1,434.16	261.49	6.485		
18,200.00	7,870.00	17,245.68	7,730.00	152.28	140.31	85.23	-6,709.00	3,452.61	1,695.65	1,430.83	264.82	6.403		
18,300.00	7,870.00	17,345.68	7,730.00	153.67	141.92	85.23	-6,809.00	3,452.27	1,695.65	1,427.50	268.15	6.324		
18,400.00	7,870.00	17,445.68	7,730.00	155.07	143.53	85.23	-6,909.00	3,451.94	1,695.65	1,424.16	271.49	6.246		
18,500.00	7,870.00	17,545.68	7,730.00	156.49	145.15	85.23	-7,009.00	3,451.60	1,695.65	1,420.82	274.83	6.170		
18,600.00	7,870.00	17,645.68	7,730.00	157.91	146.77	85.23	-7,109.00	3,451.26	1,695.66	1,417.47	278.18	6.095		
18,700.00	7,870.00	17,745.68	7,730.00	159.35	148.40	85.23	-7,209.00	3,450.92	1,695.66	1,414.12	281.54	6.023		
18,800.00	7,870.00	17,845.68	7,730.00	160.79	150.03	85.23	-7,308.99	3,450.58	1,695.66	1,410.77	284.89	5.952		
18,900.00	7,870.00	17,945.68	7,730.00	162.25	151.66	85.23	-7,408.99	3,450.25	1,695.66	1,407.41	288.25	5.883		
19,000.00	7,870.00	18,045.68	7,730.00	163.71	153.29	85.23	-7,508.99	3,449.91	1,695.66	1,404.05	291.62	5.815		
19,100.00	7,870.00	18,145.68	7,730.00	165.18	154.93	85.23	-7,608.99	3,449.57	1,695.67	1,400.68	294.99	5.748		
19,200.00	7,870.00	18,245.68	7,730.00	166.66	156.57	85.23	-7,708.99	3,449.23	1,695.67	1,397.31	298.36	5.683		
19,300.00	7,870.00	18,345.68	7,730.00	168.15	158.21	85.23	-7,808.99	3,448.89	1,695.67	1,393.93	301.74	5.620		
19,400.00	7,870.00	18,445.68	7,730.00	169.65	159.86	85.23	-7,908.99	3,448.56	1,695.67	1,390.56	305.12	5.557		

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

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1G-22H-H168 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,500.00	7,870.00	18,545.68	7,730.00	171.15	161.51	85.23	-8,008.99	3,448.22	1,695.68	1,387.18	308.50	5.497	
19,600.00	7,870.00	18,645.68	7,730.00	172.66	163.16	85.23	-8,108.99	3,447.88	1,695.68	1,383.79	311.88	5.437	
19,700.00	7,870.00	18,745.68	7,730.00	174.18	164.81	85.23	-8,208.99	3,447.54	1,695.68	1,380.41	315.27	5.378	
19,800.00	7,870.00	18,845.68	7,730.00	175.70	166.46	85.23	-8,308.99	3,447.21	1,695.68	1,377.02	318.66	5.321	
19,889.26	7,870.00	18,934.93	7,730.00	177.06	167.94	85.23	-8,398.24	3,446.90	1,695.68	1,373.99	321.69	5.271 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	-40.04	40.04					
100.00	100.00	101.00	101.00	0.13	0.14	-90.00	0.00	-40.04	40.04	39.77	0.27	146.970		
200.00	200.00	201.00	201.00	0.49	0.50	-90.00	0.00	-40.04	40.04	39.05	0.99	40.470		
300.00	300.00	301.00	301.00	0.85	0.85	-90.00	0.00	-40.04	40.04	38.33	1.71	23.466 CC, ES		
400.00	399.98	400.98	400.98	1.21	1.21	-159.03	0.00	-40.04	41.67	39.25	2.42	17.223		
500.00	499.84	500.84	500.84	1.56	1.57	-161.30	0.00	-40.04	46.59	43.46	3.13	14.865		
600.00	599.45	600.45	600.45	1.93	1.93	-164.17	0.00	-40.04	54.92	51.07	3.85	14.254		
700.00	698.70	699.70	699.70	2.32	2.28	-166.97	0.00	-40.04	66.73	62.16	4.57	14.591		
800.00	797.47	801.20	801.18	2.72	2.64	-169.07	0.84	-38.47	80.39	75.09	5.29	15.186		
900.00	895.62	903.21	903.04	3.16	3.01	-170.31	3.41	-33.69	94.15	88.13	6.01	15.654		
1,000.00	993.06	1,005.73	1,005.15	3.63	3.38	-171.01	7.71	-25.68	107.94	101.20	6.74	16.015		
1,100.00	1,089.64	1,108.76	1,107.37	4.14	3.76	-171.35	13.76	-14.39	121.73	114.26	7.47	16.292		
1,200.00	1,185.27	1,212.30	1,209.58	4.70	4.17	-171.44	21.60	0.22	135.49	127.28	8.21	16.497		
1,300.00	1,279.82	1,316.36	1,311.62	5.31	4.60	-171.35	31.23	18.16	149.20	140.24	8.96	16.645		
1,400.00	1,373.17	1,420.93	1,413.34	5.97	5.06	-171.12	42.66	39.47	162.84	153.12	9.72	16.746		
1,500.00	1,465.21	1,526.01	1,514.61	6.69	5.57	-170.78	55.91	64.17	176.40	165.90	10.50	16.798		
1,600.00	1,555.84	1,631.60	1,615.27	7.47	6.13	-170.35	70.98	92.26	189.86	178.57	11.30	16.807		
1,700.00	1,644.94	1,737.70	1,715.15	8.31	6.74	-169.85	87.88	123.77	203.22	191.11	12.11	16.776		
1,800.00	1,732.39	1,844.30	1,814.11	9.23	7.42	-169.29	106.62	158.68	216.46	203.50	12.96	16.705		
1,900.00	1,818.11	1,951.40	1,911.98	10.21	8.16	-168.67	127.17	197.00	229.57	215.73	13.83	16.595		
2,000.00	1,901.97	2,058.99	2,008.59	11.26	8.98	-168.01	149.55	238.71	242.54	227.79	14.75	16.447		
2,100.00	1,983.88	2,167.08	2,103.79	12.38	9.87	-167.32	173.75	283.81	255.36	239.66	15.70	16.260		
2,200.00	2,063.74	2,275.64	2,197.39	13.57	10.85	-166.58	199.74	332.25	268.03	251.32	16.71	16.036		
2,300.00	2,141.45	2,384.67	2,289.24	14.84	11.91	-165.82	227.51	384.02	280.53	262.75	17.78	15.776		
2,327.78	2,162.65	2,415.05	2,314.43	15.21	12.22	-165.60	235.54	398.99	283.97	265.88	18.09	15.696		
2,400.00	2,217.51	2,494.27	2,379.24	16.17	13.05	-165.01	257.07	439.12	291.98	273.06	18.92	15.430		
2,500.00	2,293.49	2,604.48	2,460.92	17.51	14.27	-164.18	285.36	491.84	301.28	281.01	20.26	14.868		
2,600.00	2,369.47	2,705.00	2,541.14	18.86	15.41	-163.41	313.17	543.68	310.58	288.96	21.62	14.365		
2,700.00	2,445.45	2,805.52	2,621.36	20.22	16.56	-162.69	340.98	595.52	319.94	296.92	23.02	13.900		
2,800.00	2,521.42	2,906.04	2,701.59	21.59	17.72	-162.00	368.80	647.36	329.34	304.89	24.45	13.469		
2,900.00	2,597.40	3,006.56	2,781.81	22.97	18.89	-161.35	396.61	699.20	338.79	312.87	25.92	13.070		
3,000.00	2,673.38	3,107.08	2,862.03	24.34	20.07	-160.74	424.42	751.04	348.28	320.85	27.42	12.700		
3,100.00	2,749.36	3,207.59	2,942.25	25.73	21.26	-160.16	452.24	802.89	357.80	328.85	28.95	12.359		
3,200.00	2,825.33	3,308.11	3,022.47	27.11	22.45	-159.61	480.05	854.73	367.36	336.85	30.51	12.042		
3,300.00	2,901.31	3,408.63	3,102.69	28.50	23.65	-159.09	507.86	906.57	376.95	344.87	32.09	11.747		
3,400.00	2,977.29	3,509.15	3,182.91	29.90	24.85	-158.60	535.68	958.41	386.57	352.88	33.69	11.474		
3,500.00	3,053.27	3,609.67	3,263.14	31.29	26.06	-158.13	563.49	1,010.25	396.22	360.91	35.31	11.220		
3,600.00	3,129.24	3,689.82	3,343.36	32.69	27.02	-157.68	591.30	1,062.09	405.90	369.09	36.81	11.027		
3,700.00	3,205.22	3,789.30	3,423.58	34.08	28.22	-157.25	619.12	1,113.93	415.59	377.13	38.46	10.806		
3,800.00	3,281.20	3,888.78	3,503.80	35.48	29.42	-156.84	646.93	1,165.78	425.31	385.19	40.13	10.599		
3,900.00	3,357.18	3,988.26	3,584.02	36.88	30.62	-156.45	674.74	1,217.62	435.05	393.24	41.81	10.406		
4,000.00	3,433.15	4,087.74	3,664.24	38.29	31.83	-156.08	702.56	1,269.46	444.81	401.31	43.50	10.225		
4,100.00	3,509.13	4,187.22	3,744.47	39.69	33.03	-155.72	730.37	1,321.30	454.59	409.38	45.21	10.054		
4,200.00	3,585.11	4,286.71	3,824.69	41.09	34.24	-155.38	758.18	1,373.14	464.38	417.45	46.93	9.895		
4,300.00	3,661.08	4,386.19	3,904.91	42.50	35.45	-155.05	786.00	1,424.98	474.19	425.53	48.66	9.744		
4,400.00	3,737.06	4,485.67	3,985.13	43.90	36.66	-154.74	813.81	1,476.82	484.02	433.61	50.41	9.602		
4,500.00	3,813.04	4,585.15	4,065.35	45.31	37.87	-154.43	841.63	1,528.67	493.85	441.70	52.16	9.469		
4,600.00	3,889.02	4,684.63	4,145.57	46.71	39.08	-154.14	869.44	1,580.51	503.70	449.79	53.92	9.342		
4,700.00	3,964.99	4,784.12	4,225.79	48.12	40.29	-153.86	897.25	1,632.35	513.57	457.88	55.69	9.223		
4,800.00	4,040.97	4,883.60	4,306.02	49.53	41.51	-153.60	925.07	1,684.19	523.44	465.98	57.46	9.109		
4,900.00	4,116.95	4,983.08	4,386.24	50.94	42.72	-153.34	952.88	1,736.03	533.33	474.08	59.25	9.002		
5,000.00	4,192.93	5,082.56	4,466.46	52.35	43.94	-153.09	980.69	1,787.87	543.23	482.19	61.04	8.900		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,268.90	5,182.04	4,546.68	53.76	45.15	-152.85	1,008.51	1,839.72	553.13	490.30	62.84	8.803		
5,200.00	4,344.88	5,281.52	4,626.90	55.16	46.37	-152.62	1,036.32	1,891.56	563.05	498.41	64.64	8.711		
5,300.00	4,420.86	5,381.01	4,707.12	56.57	47.58	-152.39	1,064.13	1,943.40	572.97	506.52	66.45	8.623		
5,400.00	4,496.84	5,480.49	4,787.35	57.98	48.80	-152.18	1,091.95	1,995.24	582.90	514.64	68.26	8.539		
5,500.00	4,572.81	5,579.97	4,867.57	59.39	50.02	-151.97	1,119.76	2,047.08	592.84	522.76	70.08	8.459		
5,600.00	4,648.79	5,679.45	4,947.79	60.81	51.24	-151.76	1,147.57	2,098.92	602.79	530.88	71.91	8.383		
5,700.00	4,724.77	5,778.93	5,028.01	62.22	52.46	-151.57	1,175.39	2,150.76	612.75	539.01	73.74	8.310		
5,800.00	4,800.74	5,878.42	5,108.23	63.63	53.68	-151.38	1,203.20	2,202.61	622.71	547.14	75.57	8.240		
5,900.00	4,876.72	5,977.90	5,188.45	65.04	54.89	-151.20	1,231.01	2,254.45	632.68	555.27	77.41	8.173		
6,000.00	4,952.70	6,077.38	5,268.68	66.45	56.11	-151.02	1,258.83	2,306.29	642.65	563.40	79.25	8.109		
6,100.00	5,028.68	6,176.86	5,348.90	67.86	57.33	-150.85	1,286.64	2,358.13	652.63	571.54	81.10	8.047		
6,200.00	5,104.65	6,276.34	5,429.12	69.27	58.55	-150.68	1,314.45	2,409.97	662.62	579.67	82.95	7.988		
6,300.00	5,180.63	6,375.82	5,509.34	70.69	59.77	-150.52	1,342.27	2,461.81	672.61	587.81	84.80	7.932		
6,400.00	5,256.61	6,475.31	5,589.56	72.10	60.99	-150.36	1,370.08	2,513.65	682.61	595.95	86.66	7.877		
6,500.00	5,332.59	6,574.79	5,669.78	73.51	62.22	-150.21	1,397.89	2,565.50	692.61	604.10	88.52	7.825		
6,600.00	5,408.56	6,674.27	5,750.00	74.92	63.44	-150.06	1,425.71	2,617.34	702.62	612.24	90.38	7.774		
6,700.00	5,484.54	6,773.75	5,830.23	76.34	64.66	-149.91	1,453.52	2,669.18	712.63	620.39	92.24	7.726		
6,800.00	5,560.52	6,873.23	5,910.45	77.75	65.88	-149.77	1,481.33	2,721.02	722.65	628.54	94.11	7.679		
6,900.00	5,636.50	6,972.71	5,990.67	79.16	67.10	-149.64	1,509.15	2,772.86	732.67	636.69	95.98	7.634		
7,000.00	5,712.47	7,072.20	6,070.89	80.57	68.32	-149.50	1,536.96	2,824.70	742.69	644.84	97.85	7.590		
7,100.00	5,788.45	7,171.68	6,151.11	81.99	69.55	-149.37	1,564.77	2,876.55	752.72	652.99	99.73	7.548		
7,200.00	5,864.43	7,271.16	6,231.33	83.40	70.77	-149.25	1,592.59	2,928.39	762.75	661.15	101.60	7.507		
7,300.00	5,940.40	7,370.64	6,311.56	84.81	71.99	-149.13	1,620.40	2,980.23	772.78	669.30	103.48	7.468		
7,400.00	6,016.38	7,470.12	6,391.78	86.23	73.21	-149.01	1,648.21	3,032.07	782.82	677.46	105.36	7.430		
7,500.00	6,092.36	7,569.61	6,472.00	87.64	74.43	-148.89	1,676.03	3,083.91	792.86	685.62	107.25	7.393		
7,600.00	6,168.34	7,669.09	6,552.22	89.05	75.66	-148.78	1,703.84	3,135.75	802.91	693.78	109.13	7.357		
7,700.00	6,244.31	7,768.57	6,632.44	90.47	76.88	-148.67	1,731.66	3,187.59	812.96	701.94	111.02	7.323		
7,800.00	6,320.29	7,868.05	6,712.66	91.88	78.10	-148.56	1,759.47	3,239.44	823.01	710.10	112.91	7.289		
7,900.00	6,396.27	7,967.53	6,792.88	93.30	79.33	-148.45	1,787.28	3,291.28	833.06	718.27	114.79	7.257		
8,000.00	6,472.25	8,067.01	6,873.11	94.71	80.55	-148.35	1,815.10	3,343.12	843.12	726.43	116.69	7.226		
8,100.00	6,548.22	8,166.50	6,953.33	96.12	81.77	-148.25	1,842.91	3,394.96	853.18	734.60	118.58	7.195		
8,200.00	6,624.20	8,279.42	7,044.67	97.54	83.15	-148.22	1,873.21	3,453.99	863.04	742.57	120.47	7.164		
8,300.00	6,700.18	8,426.89	7,167.77	98.95	84.78	-149.93	1,885.97	3,533.44	868.78	749.60	119.18	7.290		
8,400.00	6,776.16	8,555.20	7,274.13	100.37	85.90	-153.29	1,866.36	3,601.98	870.78	756.38	114.41	7.611		
8,500.00	6,852.13	8,658.00	7,355.06	101.78	86.54	-157.14	1,830.63	3,654.06	872.70	763.94	108.77	8.023		
8,600.00	6,928.11	8,737.42	7,413.18	103.20	86.88	-160.74	1,791.58	3,691.42	878.04	774.27	103.77	8.462		
8,700.00	7,004.09	8,798.45	7,454.44	104.61	87.06	-163.82	1,755.29	3,717.91	889.29	789.63	99.66	8.923		
8,800.00	7,080.06	8,845.81	7,484.09	106.02	87.15	-166.35	1,723.66	3,736.94	907.93	811.73	96.19	9.438		
8,900.00	7,156.04	8,883.16	7,505.87	107.44	87.19	-168.42	1,696.73	3,750.89	934.56	841.49	93.07	10.042		
9,000.00	7,232.02	8,913.14	7,522.26	108.85	87.21	-170.12	1,673.93	3,761.39	969.19	879.11	90.08	10.760		
9,104.68	7,311.55	8,938.64	7,535.39	110.33	87.21	-171.58	1,653.76	3,769.79	1,013.57	926.58	86.99	11.652		
9,150.00	7,346.29	8,950.00	7,541.00	110.97	87.21	-179.84	1,644.55	3,773.38	1,034.92	949.24	85.68	12.079		
9,200.00	7,385.15	8,961.76	7,546.64	111.65	87.20	170.73	1,634.88	3,776.98	1,059.26	974.88	84.37	12.555		
9,250.00	7,424.29	8,975.36	7,552.96	112.31	87.19	161.04	1,623.53	3,781.02	1,084.09	1,000.96	83.13	13.040		
9,300.00	7,463.40	8,989.80	7,559.41	112.93	87.18	151.41	1,611.29	3,785.14	1,109.11	1,027.12	81.99	13.528		
9,350.00	7,502.19	9,000.00	7,563.81	113.51	87.17	142.29	1,602.53	3,787.95	1,134.04	1,053.00	81.04	13.994		
9,400.00	7,540.36	9,020.72	7,572.35	114.04	87.14	133.31	1,584.45	3,793.40	1,158.55	1,078.57	79.98	14.486		
9,450.00	7,577.62	9,037.02	7,578.68	114.53	87.12	125.20	1,569.98	3,797.43	1,182.45	1,103.31	79.14	14.942		
9,500.00	7,613.70	9,050.00	7,583.47	114.95	87.10	117.94	1,558.31	3,800.48	1,205.51	1,126.99	78.52	15.352		
9,550.00	7,648.30	9,070.95	7,590.73	115.32	87.06	111.27	1,539.21	3,805.10	1,227.50	1,149.65	77.84	15.769		
9,600.00	7,681.18	9,100.00	7,599.81	115.63	87.00	105.23	1,512.23	3,810.87	1,248.39	1,171.35	77.04	16.204		
9,650.00	7,712.08	9,100.00	7,599.81	115.88	87.00	100.50	1,512.23	3,810.87	1,267.68	1,190.23	77.44	16.369		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,700.00	7,740.76	9,124.35	7,606.53	116.08	86.94	96.00	1,489.22	3,815.13	1,285.48	1,208.32	77.16	16.660		
9,750.00	7,767.01	9,150.00	7,612.72	116.23	86.88	92.15	1,464.64	3,819.04	1,301.71	1,224.73	76.98	16.911		
9,800.00	7,790.63	9,150.00	7,612.72	116.33	86.88	89.18	1,464.64	3,819.04	1,316.19	1,237.83	78.36	16.797		
9,850.00	7,811.44	9,179.79	7,618.73	116.38	86.78	86.41	1,435.71	3,822.82	1,328.61	1,250.23	78.38	16.951		
9,900.00	7,829.28	9,200.00	7,622.09	116.38	86.72	84.24	1,415.89	3,824.92	1,339.22	1,260.05	79.17	16.916		
9,950.00	7,844.01	9,217.45	7,624.52	116.35	86.66	82.54	1,398.68	3,826.43	1,347.82	1,267.42	80.39	16.765		
10,000.00	7,855.52	9,236.42	7,626.66	116.28	86.60	81.26	1,379.88	3,827.74	1,354.36	1,272.60	81.76	16.565		
10,050.00	7,863.72	9,250.00	7,627.87	116.18	86.55	80.40	1,366.37	3,828.48	1,358.83	1,275.04	83.79	16.217		
10,100.00	7,868.56	9,274.50	7,629.36	116.06	86.46	79.90	1,341.94	3,829.36	1,361.12	1,275.95	85.17	15.982		
10,145.94	7,870.00	9,303.98	7,630.00	115.92	86.35	79.80	1,312.47	3,829.67	1,361.50	1,275.55	85.96	15.839		
10,169.55	7,870.00	9,311.71	7,630.00	115.85	86.32	79.80	1,320.20	3,829.70	1,361.14	1,272.82	88.32	15.411		
10,200.00	7,870.00	9,326.70	7,630.00	115.76	86.26	79.80	1,289.75	3,829.60	1,361.14	1,273.12	88.02	15.464		
10,300.00	7,870.00	9,426.70	7,630.00	115.46	85.89	79.80	1,189.75	3,829.26	1,361.14	1,274.38	86.77	15.688		
10,400.00	7,870.00	9,526.70	7,630.00	115.18	85.53	79.80	1,089.75	3,828.92	1,361.15	1,275.51	85.63	15.895		
10,500.00	7,870.00	9,626.70	7,630.00	114.91	85.19	79.80	989.75	3,828.59	1,361.15	1,276.51	84.63	16.083		
10,600.00	7,870.00	9,726.70	7,630.00	114.65	84.86	79.80	889.75	3,828.25	1,361.15	1,277.38	83.76	16.250		
10,700.00	7,870.00	9,826.70	7,630.00	114.41	84.55	79.80	789.76	3,827.92	1,361.15	1,278.11	83.03	16.393		
10,800.00	7,870.00	9,926.70	7,630.00	114.17	84.26	79.80	689.76	3,827.58	1,361.15	1,278.70	82.44	16.510		
10,900.00	7,870.00	10,026.70	7,630.00	113.95	83.99	79.80	589.76	3,827.24	1,361.15	1,279.15	82.00	16.599		
11,000.00	7,870.00	10,126.70	7,630.00	113.75	83.73	79.80	489.76	3,826.91	1,361.15	1,279.45	81.70	16.660		
11,100.00	7,870.00	10,226.70	7,630.00	113.55	83.49	79.80	389.76	3,826.57	1,361.15	1,279.60	81.55	16.690		
11,200.00	7,870.00	10,326.70	7,630.00	113.37	83.27	79.80	289.76	3,826.23	1,361.15	1,279.60	81.55	16.690		
11,300.00	7,870.00	10,426.70	7,630.00	113.20	83.06	79.80	189.76	3,825.90	1,361.15	1,279.45	81.70	16.659		
11,400.00	7,870.00	10,526.70	7,630.00	113.04	82.87	79.80	89.76	3,825.56	1,361.15	1,279.15	82.00	16.599		
11,500.00	7,870.00	10,626.70	7,630.00	112.89	82.70	79.80	-10.24	3,825.23	1,361.15	1,278.70	82.45	16.509		
11,600.00	7,870.00	10,726.70	7,630.00	112.76	82.55	79.80	-110.24	3,824.89	1,361.15	1,278.11	83.04	16.392		
11,700.00	7,870.00	10,826.70	7,630.00	112.64	82.41	79.80	-210.24	3,824.55	1,361.15	1,277.38	83.77	16.249		
11,800.00	7,870.00	10,926.70	7,630.00	112.53	82.30	79.80	-310.24	3,824.22	1,361.15	1,276.51	84.64	16.082		
11,900.00	7,870.00	11,026.70	7,630.00	112.44	82.20	79.80	-410.24	3,823.88	1,361.15	1,275.51	85.64	15.894		
12,000.00	7,870.00	11,126.70	7,630.00	112.36	82.12	79.80	-510.24	3,823.55	1,361.15	1,274.38	86.77	15.686		
12,100.00	7,870.00	11,226.70	7,630.00	112.29	82.07	79.80	-610.24	3,823.21	1,361.15	1,273.13	88.03	15.463		
12,200.00	7,870.00	11,326.70	7,630.00	112.24	82.03	79.80	-710.24	3,822.87	1,361.16	1,271.75	89.40	15.225		
12,300.00	7,870.00	11,426.70	7,630.00	112.20	82.02	79.80	-810.24	3,822.54	1,361.16	1,270.27	90.89	14.976		
12,400.00	7,870.00	11,526.70	7,630.00	112.17	82.04	79.80	-910.24	3,822.20	1,361.16	1,268.67	92.48	14.718		
12,500.00	7,870.00	11,626.70	7,630.00	112.16	82.08	79.80	-1,010.23	3,821.86	1,361.16	1,266.98	94.18	14.453		
12,600.00	7,870.00	11,726.70	7,630.00	112.17	82.14	79.80	-1,110.23	3,821.53	1,361.16	1,265.18	95.97	14.183		
12,700.00	7,870.00	11,826.70	7,630.00	112.19	82.24	79.80	-1,210.23	3,821.19	1,361.16	1,263.30	97.86	13.909		
12,800.00	7,870.00	11,926.70	7,630.00	112.23	82.37	79.80	-1,310.23	3,820.86	1,361.16	1,261.33	99.83	13.635		
12,900.00	7,870.00	12,026.70	7,630.00	112.28	82.52	79.80	-1,410.23	3,820.52	1,361.16	1,259.28	101.88	13.360		
13,000.00	7,870.00	12,126.70	7,630.00	112.36	82.72	79.80	-1,510.23	3,820.18	1,361.16	1,257.15	104.01	13.086		
13,100.00	7,870.00	12,226.70	7,630.00	112.45	82.95	79.80	-1,610.23	3,819.85	1,361.16	1,254.95	106.21	12.815		
13,200.00	7,870.00	12,326.70	7,630.00	112.56	83.22	79.80	-1,710.23	3,819.51	1,361.16	1,252.68	108.48	12.547		
13,300.00	7,870.00	12,426.70	7,630.00	112.68	83.53	79.80	-1,810.23	3,819.17	1,361.16	1,250.35	110.81	12.283		
13,400.00	7,870.00	12,526.70	7,630.00	112.83	83.89	79.80	-1,910.23	3,818.84	1,361.16	1,247.96	113.21	12.024		
13,500.00	7,870.00	12,626.70	7,630.00	113.00	84.29	79.80	-2,010.23	3,818.50	1,361.16	1,245.51	115.65	11.769		
13,600.00	7,870.00	12,726.70	7,630.00	113.19	84.74	79.80	-2,110.23	3,818.17	1,361.16	1,243.01	118.15	11.520		
13,700.00	7,870.00	12,826.70	7,630.00	113.40	85.24	79.80	-2,210.23	3,817.83	1,361.16	1,240.46	120.70	11.277		
13,800.00	7,870.00	12,926.70	7,630.00	113.63	85.79	79.80	-2,310.23	3,817.49	1,361.16	1,237.87	123.30	11.040		
13,900.00	7,870.00	13,026.70	7,630.00	113.89	86.39	79.80	-2,410.23	3,817.16	1,361.16	1,235.23	125.93	10.809		
14,000.00	7,870.00	13,126.70	7,630.00	114.18	87.04	79.80	-2,510.23	3,816.82	1,361.17	1,232.55	128.61	10.583		
14,100.00	7,870.00	13,226.70	7,630.00	114.48	87.75	79.80	-2,610.23	3,816.48	1,361.17	1,229.84	131.33	10.365		
14,200.00	7,870.00	13,326.70	7,630.00	114.82	88.51	79.80	-2,710.23	3,816.15	1,361.17	1,227.09	134.08	10.152		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1H-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,300.00	7,870.00	13,426.70	7,630.00	115.18	89.32	79.80	-2,810.22	3,815.81	1,361.17	1,224.30	136.87	9.945		
14,400.00	7,870.00	13,526.70	7,630.00	115.57	90.18	79.80	-2,910.22	3,815.48	1,361.17	1,221.48	139.68	9.745		
14,500.00	7,870.00	13,626.70	7,630.00	115.99	91.09	79.80	-3,010.22	3,815.14	1,361.17	1,218.64	142.53	9.550		
14,600.00	7,870.00	13,726.70	7,630.00	116.44	92.04	79.80	-3,110.22	3,814.80	1,361.17	1,215.76	145.41	9.361		
14,700.00	7,870.00	13,826.70	7,630.00	116.92	93.04	79.80	-3,210.22	3,814.47	1,361.17	1,212.86	148.31	9.178		
14,800.00	7,870.00	13,926.70	7,630.00	117.44	94.08	79.80	-3,310.22	3,814.13	1,361.17	1,209.94	151.23	9.000		
14,900.00	7,870.00	14,026.70	7,630.00	117.98	95.15	79.80	-3,410.22	3,813.79	1,361.17	1,206.99	154.18	8.828		
15,000.00	7,870.00	14,126.70	7,630.00	118.56	96.27	79.80	-3,510.22	3,813.46	1,361.17	1,204.02	157.15	8.661		
15,100.00	7,870.00	14,226.70	7,630.00	119.17	97.42	79.80	-3,610.22	3,813.12	1,361.17	1,201.02	160.15	8.500		
15,200.00	7,870.00	14,326.70	7,630.00	119.81	98.60	79.80	-3,710.22	3,812.79	1,361.17	1,198.01	163.16	8.343		
15,300.00	7,870.00	14,426.70	7,630.00	120.48	99.81	79.80	-3,810.22	3,812.45	1,361.17	1,194.98	166.19	8.190		
15,400.00	7,870.00	14,526.70	7,630.00	121.19	101.05	79.80	-3,910.22	3,812.11	1,361.17	1,191.93	169.24	8.043		
15,500.00	7,870.00	14,626.70	7,630.00	121.93	102.31	79.80	-4,010.22	3,811.78	1,361.17	1,188.87	172.30	7.900		
15,600.00	7,870.00	14,726.70	7,630.00	122.71	103.60	79.80	-4,110.22	3,811.44	1,361.17	1,185.79	175.38	7.761		
15,700.00	7,870.00	14,826.70	7,630.00	123.52	104.91	79.80	-4,210.22	3,811.11	1,361.17	1,182.69	178.48	7.626		
15,800.00	7,870.00	14,926.70	7,630.00	124.36	106.25	79.80	-4,310.22	3,810.77	1,361.18	1,179.58	181.59	7.496		
15,900.00	7,870.00	15,026.70	7,630.00	125.23	107.60	79.80	-4,410.22	3,810.43	1,361.18	1,176.46	184.72	7.369		
16,000.00	7,870.00	15,126.70	7,630.00	126.14	108.97	79.80	-4,510.22	3,810.10	1,361.18	1,173.32	187.85	7.246		
16,100.00	7,870.00	15,226.70	7,630.00	127.07	110.35	79.80	-4,610.21	3,809.76	1,361.18	1,170.18	191.00	7.127		
16,200.00	7,870.00	15,326.70	7,630.00	128.04	111.76	79.80	-4,710.21	3,809.42	1,361.18	1,167.02	194.16	7.011		
16,300.00	7,870.00	15,426.70	7,630.00	129.04	113.17	79.80	-4,810.21	3,809.09	1,361.18	1,163.84	197.33	6.898		
16,400.00	7,870.00	15,526.70	7,630.00	130.06	114.60	79.80	-4,910.21	3,808.75	1,361.18	1,160.66	200.52	6.788		
16,500.00	7,870.00	15,626.70	7,630.00	131.11	116.04	79.80	-5,010.21	3,808.42	1,361.18	1,157.47	203.71	6.682		
16,600.00	7,870.00	15,726.70	7,630.00	132.19	117.50	79.80	-5,110.21	3,808.08	1,361.18	1,154.27	206.91	6.579		
16,700.00	7,870.00	15,826.70	7,630.00	133.29	118.97	79.80	-5,210.21	3,807.74	1,361.18	1,151.06	210.12	6.478		
16,800.00	7,870.00	15,926.70	7,630.00	134.42	120.44	79.80	-5,310.21	3,807.41	1,361.18	1,147.84	213.34	6.380		
16,900.00	7,870.00	16,026.70	7,630.00	135.57	121.93	79.80	-5,410.21	3,807.07	1,361.18	1,144.61	216.57	6.285		
17,000.00	7,870.00	16,126.70	7,630.00	136.75	123.43	79.80	-5,510.21	3,806.73	1,361.18	1,141.38	219.81	6.193		
17,100.00	7,870.00	16,226.70	7,630.00	137.94	124.93	79.80	-5,610.21	3,806.40	1,361.18	1,138.13	223.05	6.103		
17,200.00	7,870.00	16,326.70	7,630.00	139.16	126.45	79.80	-5,710.21	3,806.06	1,361.18	1,134.88	226.30	6.015		
17,300.00	7,870.00	16,426.70	7,630.00	140.39	127.97	79.80	-5,810.21	3,805.73	1,361.18	1,131.63	229.56	5.930		
17,400.00	7,870.00	16,526.70	7,630.00	141.65	129.50	79.80	-5,910.21	3,805.39	1,361.18	1,128.36	232.82	5.846		
17,500.00	7,870.00	16,626.70	7,630.00	142.92	131.03	79.80	-6,010.21	3,805.05	1,361.18	1,125.09	236.09	5.765		
17,600.00	7,870.00	16,726.70	7,630.00	144.21	132.58	79.80	-6,110.21	3,804.72	1,361.19	1,121.81	239.37	5.687		
17,700.00	7,870.00	16,826.70	7,630.00	145.52	134.13	79.80	-6,210.21	3,804.38	1,361.19	1,118.53	242.65	5.610		
17,800.00	7,870.00	16,926.70	7,630.00	146.84	135.68	79.80	-6,310.21	3,804.04	1,361.19	1,115.24	245.94	5.535		
17,900.00	7,870.00	17,026.70	7,630.00	148.18	137.25	79.80	-6,410.20	3,803.71	1,361.19	1,111.95	249.24	5.461		
18,000.00	7,870.00	17,126.70	7,630.00	149.54	138.81	79.80	-6,510.20	3,803.37	1,361.19	1,108.65	252.54	5.390		
18,100.00	7,870.00	17,226.70	7,630.00	150.90	140.39	79.80	-6,610.20	3,803.04	1,361.19	1,105.35	255.84	5.320		
18,200.00	7,870.00	17,326.70	7,630.00	152.28	141.96	79.80	-6,710.20	3,802.70	1,361.19	1,102.04	259.15	5.252		
18,300.00	7,870.00	17,426.70	7,630.00	153.67	143.55	79.80	-6,810.20	3,802.36	1,361.19	1,098.72	262.47	5.186		
18,400.00	7,870.00	17,526.70	7,630.00	155.07	145.14	79.80	-6,910.20	3,802.03	1,361.19	1,095.41	265.78	5.121		
18,500.00	7,870.00	17,626.70	7,630.00	156.49	146.73	79.80	-7,010.20	3,801.69	1,361.19	1,092.08	269.11	5.058		
18,600.00	7,870.00	17,726.70	7,630.00	157.91	148.33	79.80	-7,110.20	3,801.35	1,361.19	1,088.76	272.43	4.996		
18,700.00	7,870.00	17,826.70	7,630.00	159.35	149.93	79.80	-7,210.20	3,801.02	1,361.19	1,085.43	275.77	4.936		
18,800.00	7,870.00	17,926.70	7,630.00	160.79	151.53	79.80	-7,310.20	3,800.68	1,361.19	1,082.09	279.10	4.877		
18,900.00	7,870.00	18,026.70	7,630.00	162.25	153.14	79.80	-7,410.20	3,800.35	1,361.19	1,078.75	282.44	4.819		
19,000.00	7,870.00	18,126.70	7,630.00	163.71	154.75	79.80	-7,510.20	3,800.01	1,361.19	1,075.41	285.78	4.763		
19,100.00	7,870.00	18,226.70	7,630.00	165.18	156.37	79.80	-7,610.20	3,799.67	1,361.19	1,072.07	289.13	4.708		
19,200.00	7,870.00	18,326.70	7,630.00	166.66	157.99	79.80	-7,710.20	3,799.34	1,361.19	1,068.72	292.48	4.654		
19,300.00	7,870.00	18,426.70	7,630.00	168.15	159.61	79.80	-7,810.20	3,799.00	1,361.19	1,065.37	295.83	4.601		
19,400.00	7,870.00	18,526.70	7,630.00	169.65	161.24	79.80	-7,910.20	3,798.67	1,361.20	1,062.01	299.18	4.550		

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

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1H-22H-H168 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,500.00	7,870.00	18,626.70	7,630.00	171.15	162.87	79.80	-8,010.20	3,798.33	1,361.20	1,058.65	302.54	4.499	
19,600.00	7,870.00	18,726.70	7,630.00	172.66	164.50	79.80	-8,110.19	3,797.99	1,361.20	1,055.29	305.90	4.450	
19,700.00	7,870.00	18,826.70	7,630.00	174.18	166.13	79.80	-8,210.19	3,797.66	1,361.20	1,051.93	309.27	4.401	
19,800.00	7,870.00	18,926.70	7,630.00	175.70	167.77	79.80	-8,310.19	3,797.32	1,361.20	1,048.56	312.64	4.354	
19,889.26	7,870.00	19,015.95	7,630.00	177.06	169.24	79.80	-8,399.45	3,797.02	1,361.20	1,045.55	315.64	4.312 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	1.00	1.00	0.00	0.00	-90.00	0.00	-30.24	30.24					
100.00	100.00	101.00	101.00	0.13	0.14	-90.00	0.00	-30.24	30.24	29.97	0.27	110.998		
200.00	200.00	201.00	201.00	0.49	0.50	-90.00	0.00	-30.24	30.24	29.25	0.99	30.565		
300.00	300.00	301.00	301.00	0.85	0.85	-90.00	0.00	-30.24	30.24	28.53	1.71	17.722 CC, ES		
400.00	399.98	400.98	400.98	1.21	1.21	-159.30	0.00	-30.24	31.87	29.45	2.42	13.173		
500.00	499.84	500.84	500.84	1.56	1.57	-162.15	0.00	-30.24	36.81	33.67	3.13	11.745		
600.00	599.45	600.46	600.46	1.93	1.93	-165.50	0.00	-30.24	45.19	41.33	3.85	11.728		
700.00	698.70	701.61	701.59	2.32	2.29	-168.06	0.79	-28.62	55.37	50.80	4.57	12.120		
800.00	797.47	803.13	802.96	2.72	2.65	-169.59	3.18	-23.78	65.64	60.35	5.28	12.423		
900.00	895.62	905.04	904.46	3.16	3.02	-170.49	7.16	-15.68	75.94	69.93	6.00	12.649		
1,000.00	993.06	1,007.32	1,005.95	3.63	3.40	-170.99	12.75	-4.30	86.23	79.50	6.73	12.815		
1,100.00	1,089.64	1,109.98	1,107.29	4.14	3.80	-171.21	19.97	10.39	96.49	89.03	7.46	12.934		
1,200.00	1,185.27	1,213.02	1,208.35	4.70	4.24	-171.23	28.83	28.40	106.70	98.50	8.20	13.010		
1,300.00	1,279.82	1,316.43	1,308.99	5.31	4.71	-171.10	39.32	49.74	116.85	107.90	8.95	13.057		
1,400.00	1,373.17	1,420.22	1,409.06	5.97	5.21	-170.86	51.45	74.42	126.93	117.22	9.71	13.069		
1,500.00	1,465.21	1,524.39	1,508.43	6.69	5.77	-170.53	65.23	102.44	136.93	126.44	10.49	13.051		
1,600.00	1,555.84	1,628.92	1,606.94	7.47	6.38	-170.13	80.65	133.80	146.83	135.54	11.29	13.006		
1,700.00	1,644.94	1,733.83	1,704.46	8.31	7.06	-169.67	97.71	168.50	156.63	144.52	12.11	12.935		
1,800.00	1,732.39	1,839.09	1,800.82	9.23	7.79	-169.15	116.39	206.51	166.32	153.36	12.96	12.837		
1,900.00	1,818.11	1,944.72	1,895.88	10.21	8.60	-168.59	136.70	247.82	175.88	162.05	13.83	12.715		
2,000.00	1,901.97	2,050.70	1,989.49	11.26	9.49	-168.00	158.62	292.40	185.33	170.58	14.75	12.567		
2,100.00	1,983.88	2,157.02	2,081.49	12.38	10.45	-167.37	182.13	340.22	194.63	178.93	15.70	12.394		
2,200.00	2,063.74	2,263.69	2,171.74	13.57	11.49	-166.70	207.21	391.24	203.80	187.09	16.71	12.198		
2,300.00	2,141.45	2,370.69	2,260.08	14.84	12.61	-166.01	233.84	445.41	212.81	195.05	17.77	11.977		
2,327.78	2,162.65	2,400.48	2,284.27	15.21	12.93	-165.82	241.51	461.01	215.29	197.22	18.07	11.913		
2,400.00	2,217.51	2,474.52	2,343.81	16.17	13.77	-165.32	260.93	500.51	221.16	202.22	18.94	11.677		
2,500.00	2,293.49	2,574.17	2,423.82	17.51	14.92	-164.68	287.14	553.82	229.13	208.92	20.22	11.334		
2,600.00	2,369.47	2,673.82	2,503.83	18.86	16.08	-164.08	313.34	607.12	237.13	215.60	21.53	11.015		
2,700.00	2,445.45	2,773.47	2,583.84	20.22	17.25	-163.52	339.55	660.43	245.15	222.28	22.87	10.719		
2,800.00	2,521.42	2,873.12	2,663.85	21.59	18.44	-163.00	365.76	713.74	253.20	228.96	24.24	10.445		
2,900.00	2,597.40	2,972.77	2,743.86	22.97	19.63	-162.51	391.96	767.04	261.26	235.62	25.64	10.190		
3,000.00	2,673.38	3,072.42	2,823.88	24.34	20.83	-162.05	418.17	820.35	269.34	242.28	27.06	9.954		
3,100.00	2,749.36	3,172.07	2,903.89	25.73	22.03	-161.61	444.38	873.65	277.44	248.94	28.50	9.734		
3,200.00	2,825.33	3,271.72	2,983.90	27.11	23.24	-161.20	470.58	926.96	285.56	255.59	29.96	9.530		
3,300.00	2,901.31	3,371.37	3,063.91	28.50	24.46	-160.82	496.79	980.26	293.68	262.24	31.44	9.341		
3,400.00	2,977.29	3,471.02	3,143.92	29.90	25.67	-160.45	523.00	1,033.57	301.82	268.89	32.94	9.164		
3,500.00	3,053.27	3,570.67	3,223.93	31.29	26.89	-160.10	549.20	1,086.88	309.97	275.53	34.45	8.999		
3,600.00	3,129.24	3,670.32	3,303.95	32.69	28.11	-159.77	575.41	1,140.18	318.13	282.17	35.97	8.845		
3,700.00	3,205.22	3,769.97	3,383.96	34.08	29.34	-159.46	601.61	1,193.49	326.31	288.80	37.50	8.701		
3,800.00	3,281.20	3,869.62	3,463.97	35.48	30.57	-159.16	627.82	1,246.79	334.49	295.44	39.05	8.565		
3,900.00	3,357.18	3,969.27	3,543.98	36.88	31.79	-158.88	654.03	1,300.10	342.68	302.07	40.61	8.438		
4,000.00	3,433.15	4,068.92	3,623.99	38.29	33.02	-158.61	680.23	1,353.40	350.87	308.70	42.18	8.319		
4,100.00	3,509.13	4,168.57	3,704.01	39.69	34.25	-158.35	706.44	1,406.71	359.08	315.33	43.75	8.207		
4,200.00	3,585.11	4,268.22	3,784.02	41.09	35.49	-158.11	732.65	1,460.02	367.29	321.95	45.34	8.101		
4,300.00	3,661.08	4,367.87	3,864.03	42.50	36.72	-157.87	758.85	1,513.32	375.51	328.58	46.93	8.001		
4,400.00	3,737.06	4,467.52	3,944.04	43.90	37.96	-157.64	785.06	1,566.63	383.73	335.20	48.53	7.907		
4,500.00	3,813.04	4,567.17	4,024.05	45.31	39.19	-157.43	811.27	1,619.93	391.96	341.83	50.14	7.818		
4,600.00	3,889.02	4,666.82	4,104.06	46.71	40.43	-157.22	837.47	1,673.24	400.20	348.45	51.75	7.733		
4,700.00	3,964.99	4,766.47	4,184.08	48.12	41.66	-157.02	863.68	1,726.54	408.44	355.07	53.37	7.653		
4,800.00	4,040.97	4,866.12	4,264.09	49.53	42.90	-156.83	889.89	1,779.85	416.68	361.69	54.99	7.577		
4,900.00	4,116.95	4,965.78	4,344.10	50.94	44.14	-156.65	916.09	1,833.16	424.93	368.31	56.62	7.504		
5,000.00	4,192.93	5,065.43	4,424.11	52.35	45.38	-156.47	942.30	1,886.46	433.19	374.93	58.26	7.436		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,268.90	5,165.08	4,504.12	53.76	46.62	-156.30	968.50	1,939.77	441.44	381.54	59.90	7.370		
5,200.00	4,344.88	5,264.73	4,584.13	55.16	47.86	-156.14	994.71	1,993.07	449.70	388.16	61.54	7.307		
5,300.00	4,420.86	5,364.38	4,664.15	56.57	49.10	-155.98	1,020.92	2,046.38	457.97	394.78	63.19	7.247		
5,400.00	4,496.84	5,464.03	4,744.16	57.98	50.34	-155.83	1,047.12	2,099.68	466.24	401.40	64.84	7.190		
5,500.00	4,572.81	5,563.68	4,824.17	59.39	51.58	-155.68	1,073.33	2,152.99	474.51	408.01	66.50	7.136		
5,600.00	4,648.79	5,663.33	4,904.18	60.81	52.82	-155.54	1,099.54	2,206.29	482.78	414.63	68.16	7.084		
5,700.00	4,724.77	5,762.98	4,984.19	62.22	54.07	-155.40	1,125.74	2,259.60	491.06	421.24	69.82	7.033		
5,800.00	4,800.74	5,862.63	5,064.20	63.63	55.31	-155.27	1,151.95	2,312.91	499.34	427.86	71.48	6.985		
5,900.00	4,876.72	5,962.28	5,144.22	65.04	56.55	-155.14	1,178.16	2,366.21	507.62	434.47	73.15	6.939		
6,000.00	4,952.70	6,061.93	5,224.23	66.45	57.79	-155.02	1,204.36	2,419.52	515.91	441.08	74.82	6.895		
6,100.00	5,028.68	6,161.58	5,304.24	67.86	59.04	-154.90	1,230.57	2,472.82	524.19	447.70	76.49	6.853		
6,200.00	5,104.65	6,261.23	5,384.25	69.27	60.28	-154.78	1,256.77	2,526.13	532.48	454.31	78.17	6.812		
6,300.00	5,180.63	6,360.88	5,464.26	70.69	61.52	-154.67	1,282.98	2,579.43	540.77	460.92	79.85	6.773		
6,400.00	5,256.61	6,460.53	5,544.27	72.10	62.77	-154.56	1,309.19	2,632.74	549.07	467.54	81.53	6.735		
6,500.00	5,332.59	6,560.18	5,624.29	73.51	64.01	-154.45	1,335.39	2,686.05	557.36	474.15	83.21	6.698		
6,600.00	5,408.56	6,659.83	5,704.30	74.92	65.26	-154.35	1,361.60	2,739.35	565.66	480.76	84.90	6.663		
6,700.00	5,484.54	6,759.48	5,784.31	76.34	66.50	-154.25	1,387.81	2,792.66	573.96	487.37	86.58	6.629		
6,800.00	5,560.52	6,859.13	5,864.32	77.75	67.74	-154.15	1,414.01	2,845.96	582.26	493.99	88.27	6.596		
6,900.00	5,636.50	6,958.78	5,944.33	79.16	68.99	-154.06	1,440.22	2,899.27	590.56	500.60	89.96	6.565		
7,000.00	5,712.47	7,058.43	6,024.35	80.57	70.23	-153.97	1,466.43	2,952.57	598.86	507.21	91.65	6.534		
7,100.00	5,788.45	7,158.08	6,104.36	81.99	71.48	-153.88	1,492.63	3,005.88	607.17	513.82	93.35	6.504		
7,200.00	5,864.43	7,257.73	6,184.37	83.40	72.72	-153.79	1,518.84	3,059.19	615.48	520.43	95.04	6.476		
7,300.00	5,940.40	7,357.38	6,264.38	84.81	73.97	-153.71	1,545.05	3,112.49	623.78	527.05	96.74	6.448		
7,400.00	6,016.38	7,457.03	6,344.39	86.23	75.22	-153.62	1,571.25	3,165.80	632.09	533.66	98.44	6.421		
7,500.00	6,092.36	7,556.68	6,424.40	87.64	76.46	-153.54	1,597.46	3,219.10	640.40	540.27	100.13	6.395		
7,600.00	6,168.34	7,656.33	6,504.42	89.05	77.71	-153.46	1,623.66	3,272.41	648.71	546.88	101.84	6.370		
7,700.00	6,244.31	7,755.98	6,584.43	90.47	78.95	-153.39	1,649.87	3,325.71	657.03	553.49	103.54	6.346		
7,800.00	6,320.29	7,855.63	6,664.44	91.88	80.20	-153.31	1,676.08	3,379.02	665.34	560.10	105.24	6.322		
7,900.00	6,396.27	7,955.28	6,744.45	93.30	81.44	-153.24	1,702.28	3,432.33	673.66	566.71	106.94	6.299		
8,000.00	6,472.25	8,054.93	6,824.46	94.71	82.69	-153.17	1,728.49	3,485.63	681.97	573.32	108.65	6.277		
8,100.00	6,548.22	8,154.58	6,904.47	96.12	83.94	-153.10	1,754.70	3,538.94	690.29	579.93	110.36	6.255		
8,200.00	6,624.20	8,254.23	6,984.49	97.54	85.18	-153.03	1,780.90	3,592.24	698.61	586.54	112.06	6.234		
8,300.00	6,700.18	8,353.88	7,064.50	98.95	86.43	-152.97	1,807.11	3,645.55	706.93	593.15	113.77	6.213		
8,400.00	6,776.16	8,453.53	7,144.51	100.37	87.68	-152.90	1,833.32	3,698.85	715.25	599.77	115.48	6.194		
8,500.00	6,852.13	8,553.18	7,224.52	101.78	88.92	-152.84	1,859.52	3,752.16	723.57	606.38	117.19	6.174		
8,600.00	6,928.11	8,664.28	7,314.51	103.20	90.30	-153.01	1,885.82	3,811.97	731.52	612.96	118.56	6.170		
8,700.00	7,004.09	8,783.60	7,413.29	104.61	91.64	-154.81	1,892.91	3,877.82	736.97	620.29	116.68	6.316		
8,800.00	7,080.06	8,889.87	7,500.84	106.02	92.64	-157.93	1,878.38	3,936.01	741.30	629.09	112.21	6.606		
8,900.00	7,156.04	8,979.23	7,571.72	107.44	93.30	-161.57	1,851.32	3,983.06	747.36	640.39	106.97	6.987		
9,000.00	7,232.02	9,052.09	7,626.36	108.85	93.72	-165.13	1,819.68	4,019.30	757.95	655.82	102.14	7.421		
9,104.68	7,311.55	9,113.29	7,669.39	110.33	93.98	-168.46	1,786.84	4,047.80	776.17	678.30	97.87	7.930		
9,150.00	7,346.29	9,136.87	7,685.15	110.97	94.06	-176.06	1,772.75	4,058.24	786.48	690.15	96.33	8.165		
9,200.00	7,385.15	9,162.80	7,701.91	111.65	94.14	-175.20	1,756.37	4,069.33	799.08	704.20	94.88	8.422		
9,250.00	7,424.29	9,188.65	7,718.00	112.31	94.20	-166.27	1,739.15	4,079.97	812.68	719.05	93.63	8.680		
9,300.00	7,463.40	9,214.45	7,733.38	112.93	94.25	-157.39	1,721.12	4,090.15	826.99	734.45	92.53	8.937		
9,350.00	7,502.19	9,240.19	7,748.05	113.51	94.29	-148.78	1,702.32	4,099.84	841.74	750.19	91.55	9.195		
9,400.00	7,540.36	9,265.90	7,761.98	114.04	94.31	-140.63	1,682.78	4,109.04	856.68	766.03	90.65	9.451		
9,450.00	7,577.62	9,291.56	7,775.15	114.53	94.33	-133.08	1,662.53	4,117.73	871.57	781.74	89.83	9.702		
9,500.00	7,613.70	9,317.20	7,787.54	114.95	94.33	-126.20	1,641.63	4,125.90	886.21	797.11	89.10	9.946		
9,550.00	7,648.30	9,350.00	7,802.23	115.32	94.33	-119.84	1,613.95	4,135.57	900.46	812.19	88.27	10.201		
9,600.00	7,681.18	9,368.42	7,809.89	115.63	94.31	-114.55	1,597.99	4,140.62	913.98	826.01	87.97	10.390		
9,650.00	7,712.08	9,400.00	7,822.03	115.88	94.28	-109.62	1,569.95	4,148.60	926.81	839.42	87.39	10.605		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,700.00	7,740.76	9,419.56	7,828.90	116.08	94.25	105.56	1,552.20	4,153.11	938.66	851.21	87.45	10.734		
9,750.00	7,767.01	9,450.00	7,838.57	116.23	94.20	101.88	1,524.04	4,159.44	949.53	862.30	87.24	10.884		
9,800.00	7,790.63	9,470.66	7,844.42	116.33	94.16	98.90	1,504.60	4,163.27	959.23	871.47	87.76	10.930		
9,850.00	7,811.44	9,500.00	7,851.72	116.38	94.10	96.30	1,476.59	4,168.03	967.74	879.70	88.04	10.992		
9,900.00	7,829.28	9,521.73	7,856.35	116.38	94.04	94.24	1,455.57	4,171.04	974.93	885.83	89.10	10.942		
9,950.00	7,844.01	9,550.00	7,861.37	116.35	93.96	92.57	1,427.95	4,174.28	980.77	890.83	89.95	10.904		
10,000.00	7,855.52	9,572.79	7,864.59	116.28	93.89	91.34	1,405.48	4,176.35	985.20	893.67	91.53	10.763		
10,050.00	7,863.72	9,600.00	7,867.46	116.18	93.81	90.49	1,378.49	4,178.17	988.19	895.20	92.99	10.627		
10,100.00	7,868.56	9,623.84	7,869.10	116.06	93.73	90.03	1,354.73	4,179.17	989.72	894.68	95.03	10.415		
10,145.94	7,870.00	9,650.00	7,869.94	115.92	93.64	89.94	1,328.59	4,179.65	989.82	893.17	96.65	10.242		
10,165.85	7,870.00	9,662.43	7,870.00	115.86	93.59	89.94	1,322.74	4,179.67	989.68	891.72	97.97	10.102		
10,200.00	7,870.00	9,690.00	7,870.00	115.76	93.49	89.94	1,288.59	4,179.55	989.68	892.06	97.62	10.138		
10,300.00	7,870.00	9,790.00	7,870.00	115.46	93.14	89.94	1,188.59	4,179.22	989.68	893.11	96.58	10.248		
10,400.00	7,870.00	9,890.00	7,870.00	115.18	92.81	89.94	1,088.59	4,178.88	989.69	894.03	95.65	10.346		
10,500.00	7,870.00	9,990.00	7,870.00	114.91	92.49	89.94	988.59	4,178.54	989.69	894.83	94.86	10.434		
10,600.00	7,870.00	10,090.00	7,870.00	114.65	92.18	89.94	888.59	4,178.20	989.69	895.51	94.18	10.508		
10,700.00	7,870.00	10,190.00	7,870.00	114.41	91.90	89.94	788.59	4,177.87	989.69	896.05	93.64	10.569		
10,800.00	7,870.00	10,290.00	7,870.00	114.17	91.63	89.94	688.59	4,177.53	989.69	896.47	93.22	10.616		
10,900.00	7,870.00	10,390.00	7,870.00	113.95	91.37	89.94	588.59	4,177.19	989.69	896.75	92.94	10.648		
11,000.00	7,870.00	10,490.00	7,870.00	113.75	91.13	89.94	488.59	4,176.85	989.70	896.90	92.80	10.665		
11,100.00	7,870.00	10,590.00	7,870.00	113.55	90.90	89.94	388.59	4,176.52	989.70	896.91	92.78	10.667		
11,200.00	7,870.00	10,690.00	7,870.00	113.37	90.69	89.94	288.59	4,176.18	989.70	896.79	92.91	10.653		
11,300.00	7,870.00	10,790.00	7,870.00	113.20	90.50	89.94	188.59	4,175.84	989.70	896.54	93.16	10.623		
11,400.00	7,870.00	10,890.00	7,870.00	113.04	90.32	89.94	88.59	4,175.50	989.70	896.15	93.55	10.579		
11,500.00	7,870.00	10,990.00	7,870.00	112.89	90.16	89.94	-11.40	4,175.17	989.70	895.63	94.07	10.521		
11,600.00	7,870.00	11,090.00	7,870.00	112.76	90.02	89.94	-111.40	4,174.83	989.71	894.98	94.72	10.448		
11,700.00	7,870.00	11,190.00	7,870.00	112.64	89.89	89.94	-211.40	4,174.49	989.71	894.21	95.50	10.363		
11,800.00	7,870.00	11,290.00	7,870.00	112.53	89.78	89.94	-311.40	4,174.15	989.71	893.31	96.40	10.267		
11,900.00	7,870.00	11,390.00	7,870.00	112.44	89.68	89.94	-411.40	4,173.82	989.71	892.29	97.42	10.159		
12,000.00	7,870.00	11,490.00	7,870.00	112.36	89.61	89.94	-511.40	4,173.48	989.71	891.16	98.56	10.042		
12,100.00	7,870.00	11,590.00	7,870.00	112.29	89.55	89.94	-611.40	4,173.14	989.72	889.91	99.81	9.916		
12,200.00	7,870.00	11,690.00	7,870.00	112.24	89.52	89.94	-711.40	4,172.80	989.72	888.55	101.16	9.783		
12,300.00	7,870.00	11,790.00	7,870.00	112.20	89.50	89.94	-811.40	4,172.47	989.72	887.09	102.63	9.644		
12,400.00	7,870.00	11,890.00	7,870.00	112.17	89.50	89.94	-911.40	4,172.13	989.72	885.53	104.19	9.499		
12,500.00	7,870.00	11,990.00	7,870.00	112.16	89.53	89.94	-1,011.40	4,171.79	989.72	883.88	105.84	9.351		
12,600.00	7,870.00	12,090.00	7,870.00	112.17	89.58	89.94	-1,111.40	4,171.45	989.72	882.14	107.59	9.199		
12,700.00	7,870.00	12,190.00	7,870.00	112.19	89.65	89.94	-1,211.40	4,171.12	989.73	880.31	109.42	9.045		
12,800.00	7,870.00	12,290.00	7,870.00	112.23	89.75	89.94	-1,311.40	4,170.78	989.73	878.39	111.33	8.890		
12,900.00	7,870.00	12,390.00	7,870.00	112.28	89.88	89.94	-1,411.40	4,170.44	989.73	876.40	113.33	8.733		
13,000.00	7,870.00	12,490.00	7,870.00	112.36	90.03	89.94	-1,511.40	4,170.10	989.73	874.34	115.39	8.577		
13,100.00	7,870.00	12,590.00	7,870.00	112.45	90.22	89.94	-1,611.40	4,169.77	989.73	872.20	117.53	8.421		
13,200.00	7,870.00	12,690.00	7,870.00	112.56	90.43	89.94	-1,711.40	4,169.43	989.74	870.00	119.73	8.266		
13,300.00	7,870.00	12,790.00	7,870.00	112.68	90.68	89.94	-1,811.39	4,169.09	989.74	867.74	122.00	8.113		
13,400.00	7,870.00	12,890.00	7,870.00	112.83	90.96	89.94	-1,911.39	4,168.75	989.74	865.42	124.32	7.961		
13,500.00	7,870.00	12,990.00	7,870.00	113.00	91.28	89.94	-2,011.39	4,168.42	989.74	863.04	126.70	7.812		
13,600.00	7,870.00	13,090.00	7,870.00	113.19	91.64	89.94	-2,111.39	4,168.08	989.74	860.61	129.13	7.664		
13,700.00	7,870.00	13,190.00	7,870.00	113.40	92.03	89.94	-2,211.39	4,167.74	989.74	858.13	131.62	7.520		
13,800.00	7,870.00	13,290.00	7,870.00	113.63	92.47	89.94	-2,311.39	4,167.40	989.75	855.60	134.15	7.378		
13,900.00	7,870.00	13,390.00	7,870.00	113.89	92.95	89.94	-2,411.39	4,167.07	989.75	853.03	136.72	7.239		
14,000.00	7,870.00	13,490.00	7,870.00	114.18	93.47	89.94	-2,511.39	4,166.73	989.75	850.41	139.34	7.103		
14,100.00	7,870.00	13,590.00	7,870.00	114.48	94.04	89.94	-2,611.39	4,166.39	989.75	847.76	141.99	6.970		
14,200.00	7,870.00	13,690.00	7,870.00	114.82	94.65	89.94	-2,711.39	4,166.05	989.75	845.06	144.69	6.841		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,300.00	7,870.00	13,790.00	7,870.00	115.18	95.31	89.94	-2,811.39	4,165.72	989.76	842.34	147.42	6.714		
14,400.00	7,870.00	13,890.00	7,870.00	115.57	96.02	89.94	-2,911.39	4,165.38	989.76	839.58	150.18	6.590		
14,500.00	7,870.00	13,990.00	7,870.00	115.99	96.77	89.94	-3,011.39	4,165.04	989.76	836.78	152.98	6.470		
14,600.00	7,870.00	14,090.00	7,870.00	116.44	97.56	89.94	-3,111.39	4,164.71	989.76	833.96	155.80	6.353		
14,700.00	7,870.00	14,190.00	7,870.00	116.92	98.40	89.94	-3,211.39	4,164.37	989.76	831.11	158.65	6.239		
14,800.00	7,870.00	14,290.00	7,870.00	117.44	99.28	89.94	-3,311.39	4,164.03	989.76	828.23	161.53	6.127		
14,900.00	7,870.00	14,390.00	7,870.00	117.98	100.20	89.94	-3,411.39	4,163.69	989.77	825.33	164.44	6.019		
15,000.00	7,870.00	14,490.00	7,870.00	118.56	101.16	89.94	-3,511.38	4,163.36	989.77	822.40	167.37	5.914		
15,100.00	7,870.00	14,590.00	7,870.00	119.17	102.16	89.94	-3,611.38	4,163.02	989.77	819.45	170.32	5.811		
15,200.00	7,870.00	14,690.00	7,870.00	119.81	103.20	89.94	-3,711.38	4,162.68	989.77	816.47	173.30	5.711		
15,300.00	7,870.00	14,790.00	7,870.00	120.48	104.28	89.94	-3,811.38	4,162.34	989.77	813.48	176.29	5.614		
15,400.00	7,870.00	14,890.00	7,870.00	121.19	105.38	89.94	-3,911.38	4,162.01	989.78	810.47	179.31	5.520		
15,500.00	7,870.00	14,990.00	7,870.00	121.93	106.52	89.94	-4,011.38	4,161.67	989.78	807.44	182.34	5.428		
15,600.00	7,870.00	15,090.00	7,870.00	122.71	107.68	89.94	-4,111.38	4,161.33	989.78	804.39	185.39	5.339		
15,700.00	7,870.00	15,190.00	7,870.00	123.52	108.88	89.94	-4,211.38	4,160.99	989.78	801.32	188.46	5.252		
15,800.00	7,870.00	15,290.00	7,870.00	124.36	110.10	89.94	-4,311.38	4,160.66	989.78	798.24	191.54	5.167		
15,900.00	7,870.00	15,390.00	7,870.00	125.23	111.34	89.94	-4,411.38	4,160.32	989.78	795.14	194.64	5.085		
16,000.00	7,870.00	15,490.00	7,870.00	126.14	112.61	89.94	-4,511.38	4,159.98	989.79	792.03	197.76	5.005		
16,100.00	7,870.00	15,590.00	7,870.00	127.07	113.90	89.94	-4,611.38	4,159.64	989.79	788.90	200.89	4.927		
16,200.00	7,870.00	15,690.00	7,870.00	128.04	115.21	89.94	-4,711.38	4,159.31	989.79	785.76	204.03	4.851		
16,300.00	7,870.00	15,790.00	7,870.00	129.04	116.54	89.94	-4,811.38	4,158.97	989.79	782.61	207.18	4.777		
16,400.00	7,870.00	15,890.00	7,870.00	130.06	117.89	89.94	-4,911.38	4,158.63	989.79	779.45	210.35	4.706		
16,500.00	7,870.00	15,990.00	7,870.00	131.11	119.25	89.94	-5,011.38	4,158.29	989.79	776.27	213.52	4.636		
16,600.00	7,870.00	16,090.00	7,870.00	132.19	120.63	89.94	-5,111.38	4,157.96	989.80	773.08	216.71	4.567		
16,700.00	7,870.00	16,190.00	7,870.00	133.29	122.03	89.94	-5,211.38	4,157.62	989.80	769.89	219.91	4.501		
16,800.00	7,870.00	16,290.00	7,870.00	134.42	123.43	89.94	-5,311.37	4,157.28	989.80	766.68	223.12	4.436		
16,900.00	7,870.00	16,390.00	7,870.00	135.57	124.86	89.94	-5,411.37	4,156.94	989.80	763.46	226.34	4.373		
17,000.00	7,870.00	16,490.00	7,870.00	136.75	126.29	89.94	-5,511.37	4,156.61	989.80	760.24	229.57	4.312		
17,100.00	7,870.00	16,590.00	7,870.00	137.94	127.73	89.94	-5,611.37	4,156.27	989.81	757.00	232.81	4.252		
17,200.00	7,870.00	16,690.00	7,870.00	139.16	129.19	89.94	-5,711.37	4,155.93	989.81	753.76	236.05	4.193		
17,300.00	7,870.00	16,790.00	7,870.00	140.39	130.66	89.94	-5,811.37	4,155.59	989.81	750.50	239.30	4.136		
17,400.00	7,870.00	16,890.00	7,870.00	141.65	132.14	89.94	-5,911.37	4,155.26	989.81	747.24	242.57	4.081		
17,500.00	7,870.00	16,990.00	7,870.00	142.92	133.62	89.94	-6,011.37	4,154.92	989.81	743.98	245.84	4.026		
17,600.00	7,870.00	17,090.00	7,870.00	144.21	135.12	89.94	-6,111.37	4,154.58	989.81	740.70	249.11	3.973		
17,700.00	7,870.00	17,190.00	7,870.00	145.52	136.62	89.94	-6,211.37	4,154.24	989.82	737.42	252.40	3.922		
17,800.00	7,870.00	17,290.00	7,870.00	146.84	138.13	89.94	-6,311.37	4,153.91	989.82	734.13	255.69	3.871		
17,900.00	7,870.00	17,390.00	7,870.00	148.18	139.65	89.94	-6,411.37	4,153.57	989.82	730.84	258.98	3.822		
18,000.00	7,870.00	17,490.00	7,870.00	149.54	141.18	89.94	-6,511.37	4,153.23	989.82	727.54	262.29	3.774		
18,100.00	7,870.00	17,590.00	7,870.00	150.90	142.71	89.94	-6,611.37	4,152.89	989.82	724.23	265.59	3.727		
18,200.00	7,870.00	17,690.00	7,870.00	152.28	144.25	89.94	-6,711.37	4,152.56	989.83	720.92	268.91	3.681		
18,300.00	7,870.00	17,790.00	7,870.00	153.67	145.80	89.94	-6,811.37	4,152.22	989.83	717.60	272.23	3.636		
18,400.00	7,870.00	17,890.00	7,870.00	155.07	147.35	89.94	-6,911.37	4,151.88	989.83	714.27	275.55	3.592		
18,500.00	7,870.00	17,990.00	7,870.00	156.49	148.91	89.94	-7,011.37	4,151.54	989.83	710.95	278.88	3.549		
18,600.00	7,870.00	18,090.00	7,870.00	157.91	150.47	89.94	-7,111.36	4,151.21	989.83	707.61	282.22	3.507		
18,700.00	7,870.00	18,190.00	7,870.00	159.35	152.04	89.94	-7,211.36	4,150.87	989.83	704.27	285.56	3.466		
18,800.00	7,870.00	18,290.00	7,870.00	160.79	153.61	89.94	-7,311.36	4,150.53	989.84	700.93	288.91	3.426		
18,900.00	7,870.00	18,390.00	7,870.00	162.25	155.19	89.94	-7,411.36	4,150.19	989.84	697.58	292.25	3.387		
19,000.00	7,870.00	18,490.00	7,870.00	163.71	156.77	89.94	-7,511.36	4,149.86	989.84	694.23	295.61	3.348		
19,100.00	7,870.00	18,590.00	7,870.00	165.18	158.36	89.94	-7,611.36	4,149.52	989.84	690.88	298.97	3.311		
19,200.00	7,870.00	18,690.00	7,870.00	166.66	159.95	89.94	-7,711.36	4,149.18	989.84	687.52	302.33	3.274		
19,300.00	7,870.00	18,790.00	7,870.00	168.15	161.55	89.94	-7,811.36	4,148.84	989.85	684.15	305.69	3.238		
19,400.00	7,870.00	18,890.00	7,870.00	169.65	163.15	89.94	-7,911.36	4,148.51	989.85	680.78	309.06	3.203		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,500.00	7,870.00	18,990.00	7,870.00	171.15	164.75	89.94	-8,011.36	4,148.17	989.85	677.41	312.44	3.168	
19,600.00	7,870.00	19,090.00	7,870.00	172.66	166.36	89.94	-8,111.36	4,147.83	989.85	674.04	315.81	3.134	
19,700.00	7,870.00	19,190.00	7,870.00	174.18	167.97	89.94	-8,211.36	4,147.50	989.85	670.66	319.19	3.101	
19,800.00	7,870.00	19,290.00	7,870.00	175.70	169.58	89.94	-8,311.36	4,147.16	989.85	667.28	322.58	3.069	
19,889.26	7,870.00	19,379.25	7,870.00	177.06	171.03	89.94	-8,400.61	4,146.86	989.86	664.26	325.60	3.040 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	-20.16	20.16					
100.00	100.00	100.00	100.00	0.13	0.13	-90.00	0.00	-20.16	20.16	19.89	0.27	74.986		
200.00	200.00	200.00	200.00	0.49	0.49	-90.00	0.00	-20.16	20.16	19.17	0.99	20.451		
300.00	300.00	300.00	300.00	0.85	0.85	-90.00	0.00	-20.16	20.16	18.46	1.70	11.840 CC, ES		
400.00	399.98	400.02	399.98	1.21	1.21	-159.84	0.00	-20.16	21.79	19.37	2.42	9.020		
500.00	499.84	499.84	499.84	1.56	1.57	-163.68	0.00	-20.16	26.76	23.63	3.13	8.549		
600.00	599.45	600.61	600.58	1.93	1.92	-166.88	0.74	-18.55	33.53	29.69	3.84	8.726		
700.00	698.70	701.62	701.46	2.32	2.28	-168.76	2.96	-13.71	40.37	35.82	4.55	8.867		
800.00	797.47	802.89	802.33	2.72	2.65	-169.88	6.67	-5.62	47.24	41.97	5.27	8.968		
900.00	895.62	904.41	903.06	3.16	3.03	-170.52	11.88	5.74	54.11	48.12	5.99	9.039		
1,000.00	993.06	1,006.17	1,003.54	3.63	3.44	-170.84	18.60	20.38	60.95	54.24	6.71	9.083		
1,100.00	1,089.64	1,108.18	1,103.62	4.14	3.87	-170.95	26.82	38.29	67.77	60.32	7.44	9.106		
1,200.00	1,185.27	1,210.44	1,203.18	4.70	4.34	-170.89	36.55	59.49	74.54	66.35	8.18	9.110		
1,300.00	1,279.82	1,312.94	1,302.07	5.31	4.85	-170.71	47.78	83.97	81.26	72.32	8.94	9.094		
1,400.00	1,373.17	1,415.68	1,400.17	5.97	5.41	-170.43	60.51	111.72	87.92	78.21	9.70	9.062		
1,500.00	1,465.21	1,518.67	1,497.34	6.69	6.02	-170.08	74.74	142.72	94.51	84.03	10.48	9.014		
1,600.00	1,555.84	1,621.89	1,593.43	7.47	6.69	-169.67	90.45	176.96	101.04	89.75	11.29	8.951		
1,700.00	1,644.94	1,725.34	1,688.32	8.31	7.42	-169.21	107.64	214.41	107.48	95.37	12.11	8.873		
1,800.00	1,732.39	1,829.03	1,781.87	9.23	8.22	-168.70	126.28	255.04	113.85	100.88	12.97	8.780		
1,900.00	1,818.11	1,932.95	1,873.94	10.21	9.09	-168.15	146.37	298.83	120.12	106.27	13.85	8.671		
2,000.00	1,901.97	2,037.08	1,964.39	11.26	10.03	-167.57	167.89	345.72	126.31	111.53	14.78	8.549		
2,100.00	1,983.88	2,141.44	2,053.09	12.38	11.05	-166.96	190.81	395.68	132.40	116.66	15.74	8.411		
2,200.00	2,063.74	2,246.01	2,139.91	13.57	12.15	-166.33	215.12	448.65	138.38	121.63	16.75	8.259		
2,300.00	2,141.45	2,350.79	2,224.70	14.84	13.33	-165.67	240.78	504.58	144.26	126.44	17.82	8.094		
2,327.78	2,162.65	2,379.94	2,247.89	15.21	13.67	-165.48	248.15	520.63	145.87	127.74	18.13	8.046		
2,400.00	2,217.51	2,454.60	2,306.50	16.17	14.57	-164.93	267.44	562.67	149.24	130.25	18.99	7.858		
2,500.00	2,293.49	2,554.50	2,384.54	17.51	15.80	-164.17	293.45	619.35	153.34	133.02	20.33	7.545		
2,600.00	2,369.47	2,654.39	2,462.57	18.86	17.05	-163.44	319.46	676.03	157.47	135.77	21.70	7.256		
2,700.00	2,445.45	2,754.29	2,540.61	20.22	18.31	-162.75	345.47	732.72	161.62	138.51	23.12	6.991		
2,800.00	2,521.42	2,854.18	2,618.64	21.59	19.58	-162.10	371.48	789.40	165.80	141.23	24.57	6.748		
2,900.00	2,597.40	2,954.08	2,696.68	22.97	20.86	-161.47	397.49	846.08	169.99	143.93	26.06	6.524		
3,000.00	2,673.38	3,053.97	2,774.71	24.34	22.15	-160.88	423.50	902.77	174.20	146.63	27.58	6.317		
3,100.00	2,749.36	3,153.87	2,852.75	25.73	23.44	-160.32	449.51	959.45	178.44	149.31	29.12	6.127		
3,200.00	2,825.33	3,253.76	2,930.78	27.11	24.73	-159.78	475.52	1,016.14	182.68	151.99	30.70	5.951		
3,300.00	2,901.31	3,353.66	3,008.82	28.50	26.03	-159.26	501.53	1,072.82	186.95	154.65	32.30	5.789		
3,400.00	2,977.29	3,453.55	3,086.85	29.90	27.33	-158.77	527.54	1,129.50	191.22	157.31	33.92	5.638		
3,500.00	3,053.27	3,553.45	3,164.89	31.29	28.64	-158.30	553.55	1,186.19	195.51	159.95	35.56	5.498		
3,600.00	3,129.24	3,653.35	3,242.92	32.69	29.94	-157.86	579.56	1,242.87	199.82	162.59	37.22	5.368		
3,700.00	3,205.22	3,753.24	3,320.96	34.08	31.25	-157.42	605.58	1,299.55	204.13	165.22	38.91	5.247		
3,800.00	3,281.20	3,853.14	3,398.99	35.48	32.56	-157.01	631.59	1,356.24	208.46	167.85	40.61	5.134		
3,900.00	3,357.18	3,953.03	3,477.03	36.88	33.87	-156.62	657.60	1,412.92	212.79	170.47	42.32	5.028		
4,000.00	3,433.15	4,052.93	3,555.07	38.29	35.19	-156.24	683.61	1,469.61	217.14	173.09	44.05	4.929		
4,100.00	3,509.13	4,152.82	3,633.10	39.69	36.50	-155.87	709.62	1,526.29	221.49	175.70	45.80	4.836		
4,200.00	3,585.11	4,252.72	3,711.14	41.09	37.82	-155.52	735.63	1,582.97	225.86	178.30	47.55	4.749		
4,300.00	3,661.08	4,352.61	3,789.17	42.50	39.14	-155.18	761.64	1,639.66	230.23	180.90	49.32	4.668		
4,400.00	3,737.06	4,452.51	3,867.21	43.90	40.45	-154.86	787.65	1,696.34	234.61	183.50	51.11	4.591		
4,500.00	3,813.04	4,552.40	3,945.24	45.31	41.77	-154.55	813.66	1,753.02	239.00	186.10	52.90	4.518		
4,600.00	3,889.02	4,652.30	4,023.28	46.71	43.09	-154.25	839.67	1,809.71	243.39	188.69	54.70	4.449		
4,700.00	3,964.99	4,752.19	4,101.31	48.12	44.41	-153.95	865.68	1,866.39	247.79	191.27	56.52	4.384		
4,800.00	4,040.97	4,852.09	4,179.35	49.53	45.73	-153.67	891.69	1,923.08	252.20	193.86	58.34	4.323		
4,900.00	4,116.95	4,951.99	4,257.38	50.94	47.06	-153.40	917.70	1,979.76	256.61	196.44	60.17	4.265		
5,000.00	4,192.93	5,051.88	4,335.42	52.35	48.38	-153.14	943.71	2,036.44	261.02	199.02	62.01	4.210		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,268.90	5,151.78	4,413.45	53.76	49.70	-152.89	969.72	2,093.13	265.45	201.60	63.85	4.157		
5,200.00	4,344.88	5,251.67	4,491.49	55.16	51.02	-152.64	995.73	2,149.81	269.88	204.17	65.70	4.107		
5,300.00	4,420.86	5,351.57	4,569.52	56.57	52.35	-152.41	1,021.74	2,206.49	274.31	206.74	67.56	4.060		
5,400.00	4,496.84	5,451.46	4,647.56	57.98	53.67	-152.18	1,047.75	2,263.18	278.75	209.31	69.43	4.015		
5,500.00	4,572.81	5,551.36	4,725.59	59.39	55.00	-151.95	1,073.76	2,319.86	283.19	211.88	71.30	3.972		
5,600.00	4,648.79	5,651.25	4,803.63	60.81	56.32	-151.74	1,099.77	2,376.55	287.63	214.45	73.18	3.930		
5,700.00	4,724.77	5,751.15	4,881.66	62.22	57.65	-151.53	1,125.78	2,433.23	292.08	217.02	75.07	3.891		
5,800.00	4,800.74	5,851.04	4,959.70	63.63	58.97	-151.33	1,151.79	2,489.91	296.54	219.58	76.95	3.853		
5,900.00	4,876.72	5,950.94	5,037.74	65.04	60.30	-151.13	1,177.80	2,546.60	300.99	222.14	78.85	3.817		
6,000.00	4,952.70	6,050.84	5,115.77	66.45	61.62	-150.94	1,203.81	2,603.28	305.45	224.71	80.75	3.783		
6,100.00	5,028.68	6,150.73	5,193.81	67.86	62.95	-150.75	1,229.82	2,659.96	309.92	227.27	82.65	3.750		
6,200.00	5,104.65	6,250.63	5,271.84	69.27	64.28	-150.57	1,255.83	2,716.65	314.38	229.83	84.56	3.718		
6,300.00	5,180.63	6,350.52	5,349.88	70.69	65.60	-150.40	1,281.84	2,773.33	318.85	232.38	86.47	3.687		
6,400.00	5,256.61	6,450.42	5,427.91	72.10	66.93	-150.23	1,307.86	2,830.02	323.33	234.94	88.38	3.658		
6,500.00	5,332.59	6,550.31	5,505.95	73.51	68.26	-150.06	1,333.87	2,886.70	327.80	237.50	90.30	3.630		
6,600.00	5,408.56	6,650.21	5,583.98	74.92	69.59	-149.90	1,359.88	2,943.38	332.28	240.05	92.23	3.603		
6,700.00	5,484.54	6,750.10	5,662.02	76.34	70.91	-149.75	1,385.89	3,000.07	336.76	242.61	94.15	3.577		
6,800.00	5,560.52	6,850.00	5,740.05	77.75	72.24	-149.59	1,411.90	3,056.75	341.24	245.16	96.08	3.552		
6,900.00	5,636.50	6,949.89	5,818.09	79.16	73.57	-149.44	1,437.91	3,113.43	345.73	247.71	98.01	3.527		
7,000.00	5,712.47	7,049.79	5,896.12	80.57	74.90	-149.30	1,463.92	3,170.12	350.22	250.27	99.95	3.504		
7,100.00	5,788.45	7,149.68	5,974.16	81.99	76.22	-149.16	1,489.93	3,226.80	354.71	252.82	101.89	3.481		
7,200.00	5,864.43	7,249.58	6,052.19	83.40	77.55	-149.02	1,515.94	3,283.49	359.20	255.37	103.83	3.460		
7,300.00	5,940.40	7,349.48	6,130.23	84.81	78.88	-148.89	1,541.95	3,340.17	363.69	257.92	105.77	3.438		
7,400.00	6,016.38	7,449.37	6,208.26	86.23	80.21	-148.75	1,567.96	3,396.85	368.19	260.47	107.72	3.418		
7,500.00	6,092.36	7,549.27	6,286.30	87.64	81.54	-148.63	1,593.97	3,453.54	372.68	263.02	109.67	3.398		
7,600.00	6,168.34	7,649.16	6,364.33	89.05	82.87	-148.50	1,619.98	3,510.22	377.18	265.57	111.62	3.379		
7,700.00	6,244.31	7,749.06	6,442.37	90.47	84.20	-148.38	1,645.99	3,566.90	381.69	268.12	113.57	3.361		
7,800.00	6,320.29	7,848.95	6,520.41	91.88	85.52	-148.26	1,672.00	3,623.59	386.19	270.66	115.52	3.343		
7,900.00	6,396.27	7,948.85	6,598.44	93.30	86.85	-148.14	1,698.01	3,680.27	390.69	273.21	117.48	3.326		
8,000.00	6,472.25	8,048.74	6,676.48	94.71	88.18	-148.03	1,724.02	3,736.96	395.20	275.76	119.44	3.309		
8,100.00	6,548.22	8,148.64	6,754.51	96.12	89.51	-147.92	1,750.03	3,793.64	399.71	278.31	121.40	3.292		
8,200.00	6,624.20	8,248.53	6,832.55	97.54	90.84	-147.81	1,776.04	3,850.32	404.22	280.85	123.36	3.277		
8,300.00	6,700.18	8,348.43	6,910.58	98.95	92.17	-147.71	1,802.05	3,907.01	408.73	283.40	125.33	3.261		
8,400.00	6,776.16	8,448.32	6,988.62	100.37	93.50	-147.60	1,828.06	3,963.69	413.24	285.94	127.30	3.246		
8,500.00	6,852.13	8,548.22	7,066.65	101.78	94.83	-147.50	1,854.07	4,020.37	417.75	288.49	129.26	3.232		
8,600.00	6,928.11	8,648.16	7,144.72	103.20	96.16	-147.40	1,880.10	4,077.09	422.27	291.03	131.23	3.218		
8,700.00	7,004.09	8,769.99	7,241.92	104.61	97.71	-148.97	1,899.07	4,147.64	424.14	294.37	129.78	3.268		
8,800.00	7,080.06	8,882.52	7,332.78	106.02	98.98	-153.40	1,893.69	4,213.52	422.41	300.10	122.31	3.454		
8,880.65	7,141.34	8,962.09	7,395.68	107.16	99.74	-158.21	1,876.69	4,259.08	421.27	307.10	114.16	3.690		
8,900.00	7,156.04	8,979.53	7,409.17	107.44	99.89	-159.44	1,871.53	4,268.85	421.37	309.20	112.16	3.757		
9,000.00	7,232.02	9,059.65	7,469.27	108.85	100.48	-165.84	1,841.45	4,312.34	426.20	323.51	102.69	4.150		
9,104.68	7,311.55	9,127.27	7,516.96	110.33	100.87	-171.99	1,808.21	4,346.81	442.19	346.79	95.40	4.635		
9,150.00	7,346.29	9,153.22	7,534.37	110.97	101.00	179.30	1,793.64	4,359.38	452.93	359.75	93.18	4.861		
9,200.00	7,385.15	9,181.53	7,552.73	111.65	101.12	169.38	1,776.67	4,372.64	466.70	375.41	91.29	5.112		
9,250.00	7,424.29	9,209.55	7,570.21	112.31	101.22	159.37	1,758.78	4,385.26	481.97	392.28	89.69	5.374		
9,300.00	7,463.40	9,237.33	7,586.83	112.93	101.31	149.52	1,740.03	4,397.25	498.30	410.12	88.18	5.651		
9,350.00	7,502.19	9,264.90	7,602.59	113.51	101.37	140.07	1,720.46	4,408.61	515.26	428.62	86.64	5.947		
9,400.00	7,540.36	9,292.31	7,617.47	114.04	101.43	131.21	1,700.10	4,419.34	532.48	447.47	85.01	6.264		
9,450.00	7,577.62	9,319.56	7,631.47	114.53	101.47	123.08	1,679.01	4,429.42	549.65	466.36	83.29	6.600		
9,500.00	7,613.70	9,350.00	7,646.13	114.95	101.50	115.60	1,654.51	4,439.97	566.50	484.82	81.68	6.936		
9,550.00	7,648.30	9,373.72	7,656.82	115.32	101.51	109.20	1,634.78	4,447.65	582.76	503.01	79.75	7.307		
9,600.00	7,681.18	9,400.00	7,667.87	115.63	101.51	103.47	1,612.30	4,455.59	598.27	520.20	78.07	7.663		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,650.00	7,712.08	9,427.51	7,678.54	115.88	101.50	98.43	1,588.13	4,463.25	612.84	536.23	76.62	7.999		
9,700.00	7,740.76	9,450.00	7,686.55	116.08	101.48	94.20	1,567.92	4,468.99	626.36	550.89	75.47	8.300		
9,750.00	7,767.01	9,481.02	7,696.54	116.23	101.44	90.40	1,539.44	4,476.14	638.61	563.98	74.64	8.556		
9,800.00	7,790.63	9,500.00	7,702.04	116.33	101.42	87.39	1,521.70	4,480.07	649.67	574.95	74.72	8.695		
9,850.00	7,811.44	9,534.34	7,710.75	116.38	101.36	84.67	1,489.08	4,486.28	659.16	584.64	74.52	8.845		
9,900.00	7,829.28	9,560.95	7,716.41	116.38	101.30	82.55	1,463.40	4,490.29	667.27	591.94	75.33	8.858		
9,950.00	7,844.01	9,587.53	7,721.10	116.35	101.23	80.88	1,437.45	4,493.60	673.85	597.11	76.74	8.781		
10,000.00	7,855.52	9,614.08	7,724.80	116.28	101.16	79.62	1,411.28	4,496.20	678.86	600.11	78.75	8.621		
10,050.00	7,863.72	9,640.63	7,727.51	116.18	101.09	78.77	1,384.94	4,498.08	682.27	600.94	81.33	8.389		
10,100.00	7,868.56	9,667.17	7,729.24	116.06	101.00	78.29	1,358.49	4,499.24	684.05	599.61	84.44	8.101		
10,145.94	7,870.00	9,699.97	7,730.00	115.92	100.90	78.19	1,325.70	4,499.68	684.34	598.21	86.13	7.945		
10,152.17	7,870.00	9,709.62	7,730.00	115.90	100.86	78.19	1,335.35	4,499.71	684.16	595.28	88.88	7.698		
10,200.00	7,870.00	9,738.15	7,730.00	115.76	100.77	78.19	1,287.52	4,499.55	684.16	595.79	88.36	7.743		
10,300.00	7,870.00	9,838.15	7,730.00	115.46	100.43	78.19	1,187.52	4,499.21	684.16	597.08	87.08	7.856		
10,400.00	7,870.00	9,938.15	7,730.00	115.18	100.12	78.19	1,087.52	4,498.87	684.16	598.24	85.93	7.962		
10,500.00	7,870.00	10,038.15	7,730.00	114.91	99.82	78.19	987.52	4,498.54	684.17	599.27	84.89	8.059		
10,600.00	7,870.00	10,138.15	7,730.00	114.65	99.53	78.19	887.52	4,498.20	684.17	600.18	83.99	8.146		
10,700.00	7,870.00	10,238.15	7,730.00	114.41	99.25	78.19	787.52	4,497.86	684.17	600.94	83.23	8.220		
10,800.00	7,870.00	10,338.15	7,730.00	114.17	99.00	78.19	687.52	4,497.52	684.18	601.57	82.60	8.283		
10,900.00	7,870.00	10,438.15	7,730.00	113.95	98.75	78.19	587.52	4,497.18	684.18	602.06	82.12	8.332		
11,000.00	7,870.00	10,538.15	7,730.00	113.75	98.52	78.19	487.52	4,496.84	684.18	602.40	81.78	8.366		
11,100.00	7,870.00	10,638.15	7,730.00	113.55	98.30	78.19	387.52	4,496.50	684.18	602.60	81.59	8.386		
11,200.00	7,870.00	10,738.15	7,730.00	113.37	98.10	78.19	287.52	4,496.16	684.19	602.64	81.55	8.390		
11,300.00	7,870.00	10,838.15	7,730.00	113.20	97.92	78.19	187.52	4,495.83	684.19	602.54	81.65	8.380		
11,400.00	7,870.00	10,938.15	7,730.00	113.04	97.74	78.19	87.52	4,495.49	684.19	602.29	81.90	8.354		
11,500.00	7,870.00	11,038.15	7,730.00	112.89	97.59	78.19	-12.48	4,495.15	684.20	601.90	82.30	8.314		
11,600.00	7,870.00	11,138.15	7,730.00	112.76	97.44	78.19	-112.47	4,494.81	684.20	601.36	82.84	8.259		
11,700.00	7,870.00	11,238.15	7,730.00	112.64	97.31	78.19	-212.47	4,494.47	684.20	600.68	83.52	8.192		
11,800.00	7,870.00	11,338.15	7,730.00	112.53	97.20	78.19	-312.47	4,494.13	684.21	599.86	84.34	8.112		
11,900.00	7,870.00	11,438.15	7,730.00	112.44	97.11	78.19	-412.47	4,493.79	684.21	598.91	85.30	8.022		
12,000.00	7,870.00	11,538.15	7,730.00	112.36	97.03	78.19	-512.47	4,493.45	684.21	597.83	86.38	7.921		
12,100.00	7,870.00	11,638.15	7,730.00	112.29	96.96	78.19	-612.47	4,493.12	684.22	596.63	87.59	7.812		
12,200.00	7,870.00	11,738.15	7,730.00	112.24	96.91	78.19	-712.47	4,492.78	684.22	595.31	88.91	7.695		
12,300.00	7,870.00	11,838.15	7,730.00	112.20	96.88	78.19	-812.47	4,492.44	684.22	593.87	90.35	7.573		
12,400.00	7,870.00	11,938.15	7,730.00	112.17	96.87	78.19	-912.47	4,492.10	684.22	592.32	91.90	7.445		
12,500.00	7,870.00	12,038.15	7,730.00	112.16	96.88	78.19	-1,012.47	4,491.76	684.23	590.67	93.56	7.313		
12,600.00	7,870.00	12,138.15	7,730.00	112.17	96.91	78.19	-1,112.47	4,491.42	684.23	588.92	95.31	7.179		
12,700.00	7,870.00	12,238.15	7,730.00	112.19	96.96	78.19	-1,212.47	4,491.08	684.23	587.08	97.15	7.043		
12,800.00	7,870.00	12,338.15	7,730.00	112.23	97.02	78.19	-1,312.47	4,490.74	684.24	585.15	99.09	6.906		
12,900.00	7,870.00	12,438.15	7,730.00	112.28	97.11	78.19	-1,412.47	4,490.40	684.24	583.14	101.10	6.768		
13,000.00	7,870.00	12,538.15	7,730.00	112.36	97.23	78.19	-1,512.47	4,490.07	684.24	581.05	103.19	6.631		
13,100.00	7,870.00	12,638.15	7,730.00	112.45	97.37	78.19	-1,612.47	4,489.73	684.25	578.89	105.36	6.495		
13,200.00	7,870.00	12,738.15	7,730.00	112.56	97.53	78.19	-1,712.47	4,489.39	684.25	576.66	107.59	6.360		
13,300.00	7,870.00	12,838.15	7,730.00	112.68	97.72	78.19	-1,812.47	4,489.05	684.25	574.37	109.89	6.227		
13,400.00	7,870.00	12,938.15	7,730.00	112.83	97.94	78.19	-1,912.46	4,488.71	684.26	572.01	112.25	6.096		
13,500.00	7,870.00	13,038.15	7,730.00	113.00	98.18	78.19	-2,012.46	4,488.37	684.26	569.60	114.66	5.968		
13,600.00	7,870.00	13,138.15	7,730.00	113.19	98.46	78.19	-2,112.46	4,488.03	684.26	567.13	117.13	5.842		
13,700.00	7,870.00	13,238.15	7,730.00	113.40	98.77	78.19	-2,212.46	4,487.69	684.27	564.62	119.65	5.719		
13,800.00	7,870.00	13,338.15	7,730.00	113.63	99.11	78.19	-2,312.46	4,487.36	684.27	562.06	122.21	5.599		
13,900.00	7,870.00	13,438.15	7,730.00	113.89	99.49	78.19	-2,412.46	4,487.02	684.27	559.45	124.82	5.482		
14,000.00	7,870.00	13,538.15	7,730.00	114.18	99.90	78.19	-2,512.46	4,486.68	684.27	556.80	127.47	5.368		
14,100.00	7,870.00	13,638.15	7,730.00	114.48	100.35	78.19	-2,612.46	4,486.34	684.28	554.12	130.16	5.257		

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

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1J-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,870.00	13,738.15	7,730.00	114.82	100.84	78.19	-2,712.46	4,486.00	684.28	551.39	132.89	5.149		
14,300.00	7,870.00	13,838.15	7,730.00	115.18	101.36	78.19	-2,812.46	4,485.66	684.28	548.64	135.65	5.045		
14,400.00	7,870.00	13,938.15	7,730.00	115.57	101.93	78.19	-2,912.46	4,485.32	684.29	545.85	138.44	4.943		
14,500.00	7,870.00	14,038.15	7,730.00	115.99	102.53	78.19	-3,012.46	4,484.98	684.29	543.03	141.26	4.844		
14,600.00	7,870.00	14,138.15	7,730.00	116.44	103.18	78.19	-3,112.46	4,484.64	684.29	540.18	144.11	4.748		
14,700.00	7,870.00	14,238.15	7,730.00	116.92	103.87	78.19	-3,212.46	4,484.31	684.30	537.31	146.99	4.655		
14,800.00	7,870.00	14,338.15	7,730.00	117.44	104.60	78.19	-3,312.46	4,483.97	684.30	534.41	149.89	4.565		
14,900.00	7,870.00	14,438.15	7,730.00	117.98	105.37	78.19	-3,412.46	4,483.63	684.30	531.48	152.82	4.478		
15,000.00	7,870.00	14,538.15	7,730.00	118.56	106.18	78.19	-3,512.46	4,483.29	684.31	528.54	155.77	4.393		
15,100.00	7,870.00	14,638.15	7,730.00	119.17	107.03	78.19	-3,612.45	4,482.95	684.31	525.57	158.74	4.311		
15,200.00	7,870.00	14,738.15	7,730.00	119.81	107.91	78.19	-3,712.45	4,482.61	684.31	522.58	161.73	4.231		
15,300.00	7,870.00	14,838.15	7,730.00	120.48	108.84	78.19	-3,812.45	4,482.27	684.31	519.58	164.74	4.154		
15,400.00	7,870.00	14,938.15	7,730.00	121.19	109.80	78.19	-3,912.45	4,481.93	684.32	516.55	167.77	4.079		
15,500.00	7,870.00	15,038.15	7,730.00	121.93	110.80	78.19	-4,012.45	4,481.60	684.32	513.51	170.81	4.006		
15,600.00	7,870.00	15,138.15	7,730.00	122.71	111.83	78.20	-4,112.45	4,481.26	684.32	510.45	173.87	3.936		
15,700.00	7,870.00	15,238.15	7,730.00	123.52	112.90	78.20	-4,212.45	4,480.92	684.33	507.38	176.95	3.867		
15,800.00	7,870.00	15,338.15	7,730.00	124.36	113.99	78.20	-4,312.45	4,480.58	684.33	504.29	180.04	3.801		
15,900.00	7,870.00	15,438.15	7,730.00	125.23	115.11	78.20	-4,412.45	4,480.24	684.33	501.19	183.14	3.737		
16,000.00	7,870.00	15,538.15	7,730.00	126.14	116.27	78.20	-4,512.45	4,479.90	684.34	498.08	186.26	3.674		
16,100.00	7,870.00	15,638.15	7,730.00	127.07	117.45	78.20	-4,612.45	4,479.56	684.34	494.95	189.39	3.613		
16,200.00	7,870.00	15,738.15	7,730.00	128.04	118.65	78.20	-4,712.45	4,479.22	684.34	491.81	192.53	3.554		
16,300.00	7,870.00	15,838.15	7,730.00	129.04	119.88	78.20	-4,812.45	4,478.88	684.35	488.66	195.68	3.497		
16,400.00	7,870.00	15,938.15	7,730.00	130.06	121.13	78.20	-4,912.45	4,478.55	684.35	485.50	198.85	3.442		
16,500.00	7,870.00	16,038.15	7,730.00	131.11	122.40	78.20	-5,012.45	4,478.21	684.35	482.33	202.02	3.388		
16,600.00	7,870.00	16,138.15	7,730.00	132.19	123.69	78.20	-5,112.45	4,477.87	684.36	479.15	205.20	3.335		
16,700.00	7,870.00	16,238.15	7,730.00	133.29	125.00	78.20	-5,212.45	4,477.53	684.36	475.96	208.40	3.284		
16,800.00	7,870.00	16,338.15	7,730.00	134.42	126.33	78.20	-5,312.45	4,477.19	684.36	472.76	211.60	3.234		
16,900.00	7,870.00	16,438.15	7,730.00	135.57	127.68	78.20	-5,412.44	4,476.85	684.36	469.56	214.81	3.186		
17,000.00	7,870.00	16,538.15	7,730.00	136.75	129.04	78.20	-5,512.44	4,476.51	684.37	466.34	218.02	3.139		
17,100.00	7,870.00	16,638.15	7,730.00	137.94	130.42	78.20	-5,612.44	4,476.17	684.37	463.12	221.25	3.093		
17,200.00	7,870.00	16,738.15	7,730.00	139.16	131.81	78.20	-5,712.44	4,475.84	684.37	459.89	224.48	3.049		
17,300.00	7,870.00	16,838.15	7,730.00	140.39	133.21	78.20	-5,812.44	4,475.50	684.38	456.65	227.72	3.005		
17,400.00	7,870.00	16,938.15	7,730.00	141.65	134.63	78.20	-5,912.44	4,475.16	684.38	453.41	230.97	2.963		
17,500.00	7,870.00	17,038.15	7,730.00	142.92	136.06	78.20	-6,012.44	4,474.82	684.38	450.16	234.22	2.922		
17,600.00	7,870.00	17,138.15	7,730.00	144.21	137.50	78.20	-6,112.44	4,474.48	684.39	446.90	237.48	2.882		
17,700.00	7,870.00	17,238.15	7,730.00	145.52	138.95	78.20	-6,212.44	4,474.14	684.39	443.64	240.75	2.843		
17,800.00	7,870.00	17,338.15	7,730.00	146.84	140.41	78.20	-6,312.44	4,473.80	684.39	440.37	244.02	2.805		
17,900.00	7,870.00	17,438.15	7,730.00	148.18	141.88	78.20	-6,412.44	4,473.46	684.40	437.10	247.30	2.767		
18,000.00	7,870.00	17,538.15	7,730.00	149.54	143.36	78.20	-6,512.44	4,473.13	684.40	433.82	250.58	2.731		
18,100.00	7,870.00	17,638.15	7,730.00	150.90	144.85	78.20	-6,612.44	4,472.79	684.40	430.53	253.87	2.696		
18,200.00	7,870.00	17,738.15	7,730.00	152.28	146.35	78.20	-6,712.44	4,472.45	684.40	427.24	257.16	2.661		
18,300.00	7,870.00	17,838.15	7,730.00	153.67	147.86	78.20	-6,812.44	4,472.11	684.41	423.95	260.46	2.628		
18,400.00	7,870.00	17,938.15	7,730.00	155.07	149.37	78.20	-6,912.44	4,471.77	684.41	420.65	263.76	2.595		
18,500.00	7,870.00	18,038.15	7,730.00	156.49	150.89	78.20	-7,012.44	4,471.43	684.41	417.35	267.07	2.563		
18,600.00	7,870.00	18,138.15	7,730.00	157.91	152.42	78.20	-7,112.43	4,471.09	684.42	414.04	270.38	2.531		
18,700.00	7,870.00	18,238.15	7,730.00	159.35	153.95	78.20	-7,212.43	4,470.75	684.42	410.73	273.69	2.501		
18,800.00	7,870.00	18,338.15	7,730.00	160.79	155.49	78.20	-7,312.43	4,470.41	684.42	407.41	277.01	2.471		
18,900.00	7,870.00	18,438.15	7,730.00	162.25	157.04	78.20	-7,412.43	4,470.08	684.43	404.09	280.33	2.441		
19,000.00	7,870.00	18,538.15	7,730.00	163.71	158.59	78.20	-7,512.43	4,469.74	684.43	400.77	283.66	2.413		
19,100.00	7,870.00	18,638.15	7,730.00	165.18	160.15	78.20	-7,612.43	4,469.40	684.43	397.44	286.99	2.385		
19,200.00	7,870.00	18,738.15	7,730.00	166.66	161.71	78.20	-7,712.43	4,469.06	684.44	394.12	290.32	2.358		
19,300.00	7,870.00	18,838.15	7,730.00	168.15	163.28	78.20	-7,812.43	4,468.72	684.44	390.78	293.66	2.331		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,400.00	7,870.00	18,938.15	7,730.00	169.65	164.85	78.20	-7,912.43	4,468.38	684.44	387.45	297.00	2.305	
19,500.00	7,870.00	19,038.15	7,730.00	171.15	166.43	78.20	-8,012.43	4,468.04	684.44	384.11	300.34	2.279	
19,600.00	7,870.00	19,138.15	7,730.00	172.66	168.01	78.20	-8,112.43	4,467.70	684.45	380.76	303.68	2.254	
19,700.00	7,870.00	19,238.15	7,730.00	174.18	169.60	78.20	-8,212.43	4,467.37	684.45	377.42	307.03	2.229	
19,800.00	7,870.00	19,338.15	7,730.00	175.70	171.19	78.20	-8,312.43	4,467.03	684.45	374.07	310.38	2.205	
19,889.26	7,870.00	19,427.41	7,730.00	177.06	172.61	78.20	-8,401.68	4,466.72	684.46	371.08	313.37	2.184 SF	

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1K-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-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	399.98	399.98	399.98	1.21	1.21	-161.31	0.00	-10.08	11.72	9.30	2.42	4.851		
500.00	499.84	500.37	500.35	1.56	1.57	-165.40	0.69	-8.47	15.07	11.95	3.12	4.825		
600.00	599.45	600.87	600.71	1.93	1.92	-167.72	2.78	-3.61	18.48	14.65	3.83	4.823		
700.00	698.70	701.51	700.95	2.32	2.29	-169.08	6.26	4.48	21.90	17.36	4.54	4.823		
800.00	797.47	802.26	800.94	2.72	2.67	-169.87	11.14	15.82	25.33	20.07	5.26	4.820		
900.00	895.62	903.13	900.55	3.16	3.08	-170.29	17.41	30.40	28.75	22.77	5.97	4.812		
1,000.00	993.06	1,004.13	999.66	3.63	3.51	-170.46	25.08	48.22	32.15	25.45	6.70	4.799		
1,100.00	1,089.64	1,105.25	1,098.14	4.14	3.98	-170.45	34.13	69.26	35.53	28.10	7.43	4.780		
1,200.00	1,185.27	1,206.48	1,195.87	4.70	4.49	-170.30	44.56	93.51	38.88	30.71	8.18	4.756		
1,300.00	1,279.82	1,307.83	1,292.71	5.31	5.05	-170.05	56.37	120.95	42.21	33.28	8.93	4.726		
1,400.00	1,373.17	1,409.30	1,388.55	5.97	5.66	-169.72	69.53	151.56	45.50	35.80	9.70	4.690		
1,500.00	1,465.21	1,510.88	1,483.25	6.69	6.32	-169.33	84.05	185.31	48.76	38.27	10.49	4.648		
1,600.00	1,555.84	1,612.58	1,576.69	7.47	7.05	-168.88	99.90	222.16	51.98	40.68	11.30	4.599		
1,700.00	1,644.94	1,714.38	1,668.75	8.31	7.84	-168.39	117.07	262.08	55.17	43.03	12.14	4.544		
1,800.00	1,732.39	1,816.30	1,759.31	9.23	8.70	-167.86	135.55	305.03	58.30	45.30	13.01	4.483		
1,900.00	1,818.11	1,918.32	1,848.23	10.21	9.62	-167.29	155.30	350.96	61.40	47.49	13.91	4.415		
2,000.00	1,901.97	2,020.45	1,935.41	11.26	10.62	-166.70	176.32	399.81	64.44	49.60	14.84	4.341		
2,100.00	1,983.88	2,122.68	2,020.72	12.38	11.70	-166.08	198.57	451.55	67.44	51.61	15.83	4.260		
2,200.00	2,063.74	2,225.00	2,104.04	13.57	12.85	-165.44	222.04	506.10	70.38	53.52	16.86	4.173		
2,300.00	2,141.45	2,327.43	2,185.27	14.84	14.08	-164.78	246.69	563.41	73.27	55.32	17.96	4.080		
2,327.78	2,162.65	2,355.90	2,207.45	15.21	14.43	-164.59	253.75	579.81	74.07	55.79	18.27	4.053		
2,400.00	2,217.51	2,429.73	2,264.13	16.17	15.37	-163.92	272.44	623.26	75.25	56.09	19.15	3.929		
2,500.00	2,293.49	2,529.72	2,340.25	17.51	16.69	-162.80	298.06	682.82	75.94	55.34	20.60	3.686		
2,600.00	2,369.47	2,629.71	2,416.37	18.86	18.01	-161.71	323.68	742.38	76.67	54.54	22.13	3.465		
2,700.00	2,445.45	2,729.69	2,492.48	20.22	19.35	-160.63	349.30	801.94	77.42	53.70	23.71	3.265		
2,800.00	2,521.42	2,829.68	2,568.60	21.59	20.70	-159.58	374.92	861.50	78.19	52.82	25.37	3.082		
2,900.00	2,597.40	2,929.67	2,644.72	22.97	22.05	-158.55	400.54	921.06	79.00	51.91	27.09	2.916		
3,000.00	2,673.38	3,029.65	2,720.83	24.34	23.41	-157.54	426.16	980.62	79.82	50.95	28.87	2.765		
3,100.00	2,749.36	3,129.64	2,796.95	25.73	24.78	-156.55	451.78	1,040.18	80.68	49.96	30.71	2.627		
3,200.00	2,825.33	3,229.63	2,873.06	27.11	26.15	-155.58	477.40	1,099.74	81.55	48.94	32.62	2.500		
3,300.00	2,901.31	3,329.61	2,949.18	28.50	27.52	-154.64	503.02	1,159.30	82.45	47.88	34.57	2.385		
3,400.00	2,977.29	3,429.60	3,025.30	29.90	28.90	-153.71	528.64	1,218.86	83.37	46.79	36.58	2.279		
3,500.00	3,053.27	3,529.59	3,101.41	31.29	30.28	-152.80	554.26	1,278.42	84.31	45.67	38.64	2.182		
3,600.00	3,129.24	3,629.57	3,177.53	32.69	31.66	-151.92	579.88	1,337.97	85.27	44.52	40.75	2.092		
3,700.00	3,205.22	3,729.56	3,253.64	34.08	33.04	-151.05	605.50	1,397.53	86.26	43.35	42.91	2.010		
3,800.00	3,281.20	3,829.55	3,329.76	35.48	34.42	-150.21	631.12	1,457.09	87.26	42.15	45.11	1.934		
3,900.00	3,357.18	3,929.53	3,405.88	36.88	35.81	-149.38	656.74	1,516.65	88.28	40.93	47.35	1.864		
4,000.00	3,433.15	4,029.52	3,481.99	38.29	37.20	-148.57	682.36	1,576.21	89.32	39.69	49.63	1.800		
4,100.00	3,509.13	4,129.51	3,558.11	39.69	38.59	-147.78	707.98	1,635.77	90.37	38.43	51.95	1.740		
4,200.00	3,585.11	4,229.49	3,634.22	41.09	39.98	-147.01	733.60	1,695.33	91.44	37.15	54.30	1.684		
4,300.00	3,661.08	4,329.48	3,710.34	42.50	41.37	-146.26	759.22	1,754.89	92.53	35.85	56.68	1.632		
4,400.00	3,737.06	4,429.47	3,786.46	43.90	42.76	-145.52	784.84	1,814.45	93.64	34.54	59.10	1.584		
4,500.00	3,813.04	4,529.45	3,862.57	45.31	44.15	-144.81	810.46	1,874.01	94.76	33.21	61.54	1.540		
4,600.00	3,889.02	4,629.44	3,938.69	46.71	45.54	-144.11	836.08	1,933.57	95.89	31.87	64.02	1.498 Level 3		
4,700.00	3,964.99	4,729.43	4,014.80	48.12	46.94	-143.42	861.70	1,993.13	97.04	30.52	66.52	1.459 Level 3		
4,800.00	4,040.97	4,829.41	4,090.92	49.53	48.33	-142.75	887.32	2,052.69	98.20	29.16	69.04	1.422 Level 3		
4,900.00	4,116.95	4,929.40	4,167.04	50.94	49.73	-142.10	912.94	2,112.25	99.37	27.79	71.59	1.388 Level 3		
5,000.00	4,192.93	5,029.39	4,243.15	52.35	51.12	-141.46	938.56	2,171.80	100.56	26.41	74.15	1.356 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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,268.90	5,129.37	4,319.27	53.76	52.52	-140.84	964.18	2,231.36	101.76	25.02	76.74	1.326	Level 3	
5,200.00	4,344.88	5,229.36	4,395.39	55.16	53.92	-140.23	989.80	2,290.92	102.97	23.62	79.35	1.298	Level 3	
5,300.00	4,420.86	5,329.35	4,471.50	56.57	55.31	-139.64	1,015.42	2,350.48	104.19	22.22	81.97	1.271	Level 3	
5,400.00	4,496.84	5,429.33	4,547.62	57.98	56.71	-139.06	1,041.04	2,410.04	105.42	20.81	84.61	1.246	Level 2	
5,500.00	4,572.81	5,529.32	4,623.73	59.39	58.11	-138.49	1,066.66	2,469.60	106.67	19.40	87.27	1.222	Level 2	
5,600.00	4,648.79	5,629.31	4,699.85	60.81	59.51	-137.94	1,092.28	2,529.16	107.92	17.98	89.94	1.200	Level 2	
5,700.00	4,724.77	5,729.30	4,775.97	62.22	60.90	-137.40	1,117.90	2,588.72	109.18	16.56	92.62	1.179	Level 2	
5,800.00	4,800.74	5,829.28	4,852.08	63.63	62.30	-136.87	1,143.52	2,648.28	110.46	15.14	95.32	1.159	Level 2	
5,900.00	4,876.72	5,929.27	4,928.20	65.04	63.70	-136.35	1,169.14	2,707.84	111.74	13.71	98.03	1.140	Level 2	
6,000.00	4,952.70	6,029.26	5,004.31	66.45	65.10	-135.85	1,194.76	2,767.40	113.03	12.28	100.75	1.122	Level 2	
6,100.00	5,028.68	6,129.24	5,080.43	67.86	66.50	-135.36	1,220.38	2,826.96	114.33	10.85	103.48	1.105	Level 2	
6,200.00	5,104.65	6,229.23	5,156.55	69.27	67.90	-134.88	1,246.00	2,886.52	115.64	9.42	106.22	1.089	Level 2	
6,300.00	5,180.63	6,329.22	5,232.66	70.69	69.30	-134.41	1,271.62	2,946.08	116.95	7.99	108.97	1.073	Level 2	
6,400.00	5,256.61	6,429.20	5,308.78	72.10	70.70	-133.94	1,297.24	3,005.64	118.28	6.55	111.72	1.059	Level 2	
6,500.00	5,332.59	6,529.19	5,384.89	73.51	72.10	-133.49	1,322.86	3,065.19	119.61	5.12	114.49	1.045	Level 2	
6,600.00	5,408.56	6,629.18	5,461.01	74.92	73.50	-133.05	1,348.48	3,124.75	120.95	3.68	117.26	1.031	Level 2	
6,700.00	5,484.54	6,729.16	5,537.13	76.34	74.90	-132.62	1,374.10	3,184.31	122.29	2.25	120.04	1.019	Level 2	
6,800.00	5,560.52	6,829.15	5,613.24	77.75	76.30	-132.20	1,399.72	3,243.87	123.64	0.82	122.83	1.007	Level 2	
6,900.00	5,636.50	6,929.14	5,689.36	79.16	77.70	-131.79	1,425.34	3,303.43	125.00	-0.62	125.62	0.995	Level 1	
7,000.00	5,712.47	7,029.12	5,765.48	80.57	79.10	-131.39	1,450.96	3,362.99	126.37	-2.05	128.42	0.984	Level 1	
7,100.00	5,788.45	7,129.11	5,841.59	81.99	80.50	-130.99	1,476.58	3,422.55	127.74	-3.48	131.22	0.973	Level 1	
7,200.00	5,864.43	7,229.10	5,917.71	83.40	81.90	-130.61	1,502.20	3,482.11	129.11	-4.91	134.02	0.963	Level 1	
7,300.00	5,940.40	7,329.08	5,993.82	84.81	83.30	-130.23	1,527.82	3,541.67	130.50	-6.34	136.84	0.954	Level 1	
7,400.00	6,016.38	7,429.07	6,069.94	86.23	84.70	-129.86	1,553.44	3,601.23	131.89	-7.77	139.65	0.944	Level 1	
7,500.00	6,092.36	7,529.06	6,146.06	87.64	86.11	-129.50	1,579.06	3,660.79	133.28	-9.19	142.47	0.935	Level 1	
7,600.00	6,168.34	7,629.04	6,222.17	89.05	87.51	-129.14	1,604.68	3,720.35	134.68	-10.62	145.29	0.927	Level 1	
7,700.00	6,244.31	7,729.03	6,298.29	90.47	88.91	-128.79	1,630.30	3,779.91	136.08	-12.04	148.12	0.919	Level 1	
7,800.00	6,320.29	7,829.02	6,374.40	91.88	90.31	-128.45	1,655.92	3,839.47	137.49	-13.46	150.95	0.911	Level 1	
7,900.00	6,396.27	7,929.00	6,450.52	93.30	91.71	-128.12	1,681.54	3,899.02	138.90	-14.88	153.78	0.903	Level 1	
8,000.00	6,472.25	8,028.99	6,526.64	94.71	93.11	-127.79	1,707.16	3,958.58	140.32	-16.29	156.62	0.896	Level 1	
8,100.00	6,548.22	8,128.98	6,602.75	96.12	94.52	-127.47	1,732.78	4,018.14	141.74	-17.71	159.45	0.889	Level 1	
8,200.00	6,624.20	8,228.96	6,678.87	97.54	95.92	-127.16	1,758.40	4,077.70	143.17	-19.12	162.29	0.882	Level 1	
8,300.00	6,700.18	8,328.95	6,754.98	98.95	97.32	-126.85	1,784.02	4,137.26	144.60	-20.53	165.13	0.876	Level 1	
8,400.00	6,776.16	8,428.94	6,831.10	100.37	98.72	-126.55	1,809.64	4,196.82	146.04	-21.94	167.98	0.869	Level 1	
8,500.00	6,852.13	8,528.92	6,907.22	101.78	100.12	-126.25	1,835.26	4,256.38	147.48	-23.34	170.82	0.863	Level 1	
8,600.00	6,928.11	8,628.91	6,983.33	103.20	101.53	-125.96	1,860.88	4,315.94	148.92	-24.75	173.67	0.858	Level 1	
8,700.00	7,004.09	8,728.90	7,059.45	104.61	102.93	-125.68	1,886.50	4,375.50	150.37	-26.15	176.52	0.852	Level 1	
8,800.00	7,080.06	8,845.92	7,150.25	106.02	104.52	-125.38	1,905.41	4,446.51	151.80	-27.56	179.37	0.848	Level 1, ES, SF	
8,900.00	7,156.04	8,955.30	7,236.27	107.44	105.87	-125.08	1,901.60	4,513.71	153.15	-28.97	182.22	0.844	Level 1	
9,000.00	7,232.02	9,050.53	7,309.56	108.85	106.86	-124.78	1,881.45	4,570.90	154.48	-30.38	185.07	0.840	Level 1	
9,016.89	7,244.85	9,065.05	7,320.46	109.09	106.99	-124.52	1,877.03	4,579.41	154.80	-30.70	185.39	0.840	Level 1	
9,104.68	7,311.55	9,133.36	7,370.43	110.33	107.56	-124.22	1,851.62	4,618.36	156.11	-32.11	188.24	0.836	Level 1	
9,150.00	7,346.29	9,165.20	7,392.84	110.97	107.79	-123.92	1,837.22	4,635.82	157.42	-33.52	191.09	0.832	Level 1	
9,200.00	7,385.15	9,199.47	7,416.20	111.65	108.02	-123.62	1,820.00	4,654.02	158.69	-34.93	193.94	0.828	Level 1	
9,250.00	7,424.29	9,232.96	7,438.22	112.31	108.20	-123.32	1,801.49	4,671.17	159.96	-36.34	196.79	0.824	Level 1	
9,300.00	7,463.40	9,265.80	7,458.95	112.93	108.36	-123.02	1,781.79	4,687.30	161.23	-37.75	199.64	0.820	Level 1	
9,350.00	7,502.19	9,300.00	7,479.56	113.51	108.51	-122.72	1,759.71	4,703.32	162.50	-39.16	202.49	0.816	Level 1	
9,400.00	7,540.36	9,329.89	7,496.69	114.04	108.61	-122.42	1,739.16	4,716.64	163.77	-40.57	205.34	0.812	Level 1	
9,450.00	7,577.62	9,361.28	7,513.76	114.53	108.70	-122.12	1,716.39	4,729.90	165.04	-41.98	208.19	0.808	Level 1	
9,500.00	7,613.70	9,392.32	7,529.64	114.95	108.77	-121.82	1,692.75	4,742.23	166.31	-43.39	211.04	0.804	Level 1	
9,550.00	7,648.30	9,423.06	7,544.35	115.32	108.82	-121.52	1,668.30	4,753.64	167.58	-44.80	213.89	0.800	Level 1	
9,600.00	7,681.18	9,450.00	7,556.39	115.63	108.86	-121.22	1,646.08	4,762.97	168.85	-46.21	216.74	0.796	Level 1	

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1K-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,650.00	7,712.08	9,483.77	7,570.29	115.88	108.87	73.08	1,617.24	4,773.73	345.30	279.90	65.41	5.279		
9,700.00	7,740.76	9,513.82	7,581.51	116.08	108.87	69.24	1,590.76	4,782.41	360.43	301.11	59.33	6.075		
9,750.00	7,767.01	9,550.00	7,593.55	116.23	108.86	65.91	1,557.94	4,791.71	374.16	318.47	55.69	6.719		
9,800.00	7,790.63	9,573.45	7,600.48	116.33	108.83	63.31	1,536.19	4,797.05	386.16	337.03	49.13	7.861		
9,850.00	7,811.44	9,600.00	7,607.46	116.38	108.80	61.11	1,511.14	4,802.42	396.67	351.13	45.54	8.710		
9,900.00	7,829.28	9,632.60	7,614.78	116.38	108.74	59.28	1,479.88	4,808.03	405.50	361.11	44.40	9.134		
9,950.00	7,844.01	9,662.05	7,620.17	116.35	108.68	57.87	1,451.23	4,812.15	412.69	367.65	45.04	9.163		
10,000.00	7,855.52	9,691.43	7,624.40	116.28	108.61	56.81	1,422.33	4,815.35	418.18	370.42	47.76	8.756		
10,050.00	7,863.72	9,720.77	7,627.44	116.18	108.53	56.08	1,393.24	4,817.63	421.96	369.68	52.28	8.072		
10,100.00	7,868.56	9,750.00	7,629.30	116.06	108.45	55.67	1,364.11	4,818.99	424.01	365.81	58.20	7.285		
10,145.94	7,870.00	9,777.02	7,629.98	115.92	108.37	55.56	1,337.11	4,819.43	424.38	359.90	64.48	6.581		
10,153.30	7,870.00	9,782.62	7,630.00	115.90	108.35	55.56	1,333.13	4,819.43	424.35	358.67	65.67	6.462		
10,200.00	7,870.00	9,827.69	7,630.00	115.76	108.20	55.56	1,286.43	4,819.27	424.35	359.30	65.04	6.524		
10,300.00	7,870.00	9,927.69	7,630.00	115.46	107.89	55.56	1,186.43	4,818.93	424.35	360.60	63.75	6.657		
10,400.00	7,870.00	10,027.69	7,630.00	115.18	107.59	55.56	1,086.43	4,818.60	424.35	361.77	62.58	6.781		
10,500.00	7,870.00	10,127.69	7,630.00	114.91	107.30	55.56	986.43	4,818.26	424.35	362.82	61.53	6.896		
10,600.00	7,870.00	10,227.69	7,630.00	114.65	107.03	55.56	886.43	4,817.92	424.35	363.73	60.62	7.000		
10,700.00	7,870.00	10,327.69	7,630.00	114.41	106.77	55.56	786.43	4,817.59	424.35	364.50	59.85	7.090		
10,800.00	7,870.00	10,427.69	7,630.00	114.17	106.52	55.56	686.43	4,817.25	424.36	365.12	59.23	7.164		
10,900.00	7,870.00	10,527.69	7,630.00	113.95	106.29	55.56	586.43	4,816.91	424.36	365.59	58.76	7.221		
11,000.00	7,870.00	10,627.69	7,630.00	113.75	106.07	55.56	486.43	4,816.57	424.36	365.91	58.45	7.260		
11,100.00	7,870.00	10,727.69	7,630.00	113.55	105.86	55.56	386.43	4,816.24	424.36	366.07	58.29	7.280		
11,200.00	7,870.00	10,827.69	7,630.00	113.37	105.67	55.56	286.43	4,815.90	424.36	366.07	58.30	7.279		
11,300.00	7,870.00	10,927.69	7,630.00	113.20	105.49	55.56	186.43	4,815.56	424.36	365.91	58.46	7.259		
11,400.00	7,870.00	11,027.69	7,630.00	113.04	105.32	55.56	86.44	4,815.22	424.36	365.59	58.78	7.220		
11,500.00	7,870.00	11,127.69	7,630.00	112.89	105.17	55.56	-13.56	4,814.89	424.37	365.12	59.25	7.162		
11,600.00	7,870.00	11,227.69	7,630.00	112.76	105.03	55.56	-113.56	4,814.55	424.37	364.49	59.87	7.088		
11,700.00	7,870.00	11,327.69	7,630.00	112.64	104.90	55.56	-213.56	4,814.21	424.37	363.72	60.65	6.997		
11,800.00	7,870.00	11,427.69	7,630.00	112.53	104.79	55.56	-313.56	4,813.88	424.37	362.81	61.56	6.894		
11,900.00	7,870.00	11,527.69	7,630.00	112.44	104.69	55.56	-413.56	4,813.54	424.37	361.76	62.61	6.778		
12,000.00	7,870.00	11,627.69	7,630.00	112.36	104.60	55.56	-513.56	4,813.20	424.37	360.59	63.78	6.653		
12,100.00	7,870.00	11,727.69	7,630.00	112.29	104.54	55.56	-613.56	4,812.86	424.37	359.29	65.08	6.521		
12,200.00	7,870.00	11,827.69	7,630.00	112.24	104.48	55.56	-713.56	4,812.53	424.37	357.88	66.49	6.382		
12,300.00	7,870.00	11,927.69	7,630.00	112.20	104.44	55.56	-813.56	4,812.19	424.38	356.36	68.01	6.240		
12,400.00	7,870.00	12,027.69	7,630.00	112.17	104.42	55.56	-913.56	4,811.85	424.38	354.75	69.63	6.095		
12,500.00	7,870.00	12,127.69	7,630.00	112.16	104.42	55.56	-1,013.56	4,811.51	424.38	353.03	71.35	5.948		
12,600.00	7,870.00	12,227.69	7,630.00	112.17	104.43	55.56	-1,113.56	4,811.18	424.38	351.23	73.15	5.802		
12,700.00	7,870.00	12,327.69	7,630.00	112.19	104.45	55.56	-1,213.56	4,810.84	424.38	349.36	75.03	5.656		
12,800.00	7,870.00	12,427.69	7,630.00	112.23	104.50	55.56	-1,313.56	4,810.50	424.38	347.40	76.98	5.513		
12,900.00	7,870.00	12,527.69	7,630.00	112.28	104.57	55.56	-1,413.56	4,810.16	424.38	345.38	79.00	5.372		
13,000.00	7,870.00	12,627.69	7,630.00	112.36	104.65	55.56	-1,513.56	4,809.83	424.39	343.29	81.09	5.233		
13,100.00	7,870.00	12,727.69	7,630.00	112.45	104.76	55.56	-1,613.56	4,809.49	424.39	341.15	83.24	5.098		
13,200.00	7,870.00	12,827.69	7,630.00	112.56	104.88	55.56	-1,713.55	4,809.15	424.39	338.95	85.44	4.967		
13,300.00	7,870.00	12,927.69	7,630.00	112.68	105.03	55.56	-1,813.55	4,808.82	424.39	336.70	87.69	4.840		
13,400.00	7,870.00	13,027.69	7,630.00	112.83	105.20	55.56	-1,913.55	4,808.48	424.39	334.40	89.99	4.716		
13,500.00	7,870.00	13,127.69	7,630.00	113.00	105.40	55.56	-2,013.55	4,808.14	424.39	332.06	92.33	4.596		
13,600.00	7,870.00	13,227.69	7,630.00	113.19	105.62	55.56	-2,113.55	4,807.80	424.39	329.68	94.72	4.481		
13,700.00	7,870.00	13,327.69	7,630.00	113.40	105.87	55.56	-2,213.55	4,807.47	424.40	327.26	97.13	4.369		
13,800.00	7,870.00	13,427.69	7,630.00	113.63	106.14	55.56	-2,313.55	4,807.13	424.40	324.81	99.59	4.262		
13,900.00	7,870.00	13,527.69	7,630.00	113.89	106.44	55.56	-2,413.55	4,806.79	424.40	322.32	102.07	4.158		
14,000.00	7,870.00	13,627.69	7,630.00	114.18	106.77	55.56	-2,513.55	4,806.45	424.40	319.81	104.59	4.058		
14,100.00	7,870.00	13,727.69	7,630.00	114.48	107.13	55.56	-2,613.55	4,806.12	424.40	317.27	107.13	3.961		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1K-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,870.00	13,827.69	7,630.00	114.82	107.53	55.56	-2,713.55	4,805.78	424.40	314.70	109.70	3.869		
14,300.00	7,870.00	13,927.69	7,630.00	115.18	107.95	55.56	-2,813.55	4,805.44	424.40	312.11	112.29	3.779		
14,400.00	7,870.00	14,027.69	7,630.00	115.57	108.41	55.56	-2,913.55	4,805.11	424.40	309.50	114.91	3.693		
14,500.00	7,870.00	14,127.69	7,630.00	115.99	108.91	55.56	-3,013.55	4,804.77	424.41	306.86	117.54	3.611		
14,600.00	7,870.00	14,227.69	7,630.00	116.44	109.43	55.56	-3,113.55	4,804.43	424.41	304.21	120.20	3.531		
14,700.00	7,870.00	14,327.69	7,630.00	116.92	110.00	55.56	-3,213.55	4,804.09	424.41	301.54	122.87	3.454		
14,800.00	7,870.00	14,427.69	7,630.00	117.44	110.60	55.56	-3,313.55	4,803.76	424.41	298.85	125.56	3.380		
14,900.00	7,870.00	14,527.69	7,630.00	117.98	111.24	55.56	-3,413.54	4,803.42	424.41	296.14	128.27	3.309		
15,000.00	7,870.00	14,627.69	7,630.00	118.56	111.91	55.56	-3,513.54	4,803.08	424.41	293.43	130.99	3.240		
15,100.00	7,870.00	14,727.69	7,630.00	119.17	112.63	55.56	-3,613.54	4,802.74	424.41	290.69	133.72	3.174		
15,200.00	7,870.00	14,827.69	7,630.00	119.81	113.37	55.56	-3,713.54	4,802.41	424.42	287.95	136.47	3.110		
15,300.00	7,870.00	14,927.69	7,630.00	120.48	114.16	55.56	-3,813.54	4,802.07	424.42	285.19	139.23	3.048		
15,400.00	7,870.00	15,027.69	7,630.00	121.19	114.98	55.56	-3,913.54	4,801.73	424.42	282.42	142.00	2.989		
15,500.00	7,870.00	15,127.69	7,630.00	121.93	115.84	55.56	-4,013.54	4,801.39	424.42	279.63	144.79	2.931		
15,600.00	7,870.00	15,227.69	7,630.00	122.71	116.73	55.56	-4,113.54	4,801.06	424.42	276.84	147.58	2.876		
15,700.00	7,870.00	15,327.69	7,630.00	123.52	117.66	55.56	-4,213.54	4,800.72	424.42	274.04	150.38	2.822		
15,800.00	7,870.00	15,427.69	7,630.00	124.36	118.62	55.56	-4,313.54	4,800.38	424.42	271.23	153.20	2.770		
15,900.00	7,870.00	15,527.69	7,630.00	125.23	119.62	55.57	-4,413.54	4,800.05	424.43	268.41	156.02	2.720		
16,000.00	7,870.00	15,627.69	7,630.00	126.14	120.64	55.57	-4,513.54	4,799.71	424.43	265.58	158.85	2.672		
16,100.00	7,870.00	15,727.69	7,630.00	127.07	121.70	55.57	-4,613.54	4,799.37	424.43	262.74	161.69	2.625		
16,200.00	7,870.00	15,827.69	7,630.00	128.04	122.78	55.57	-4,713.54	4,799.03	424.43	259.90	164.53	2.580		
16,300.00	7,870.00	15,927.69	7,630.00	129.04	123.89	55.57	-4,813.54	4,798.70	424.43	257.05	167.38	2.536		
16,400.00	7,870.00	16,027.69	7,630.00	130.06	125.03	55.57	-4,913.54	4,798.36	424.43	254.19	170.24	2.493		
16,500.00	7,870.00	16,127.69	7,630.00	131.11	126.19	55.57	-5,013.54	4,798.02	424.43	251.33	173.11	2.452		
16,600.00	7,870.00	16,227.69	7,630.00	132.19	127.38	55.57	-5,113.54	4,797.68	424.43	248.46	175.98	2.412		
16,700.00	7,870.00	16,327.69	7,630.00	133.29	128.59	55.57	-5,213.53	4,797.35	424.44	245.58	178.86	2.373		
16,800.00	7,870.00	16,427.69	7,630.00	134.42	129.83	55.57	-5,313.53	4,797.01	424.44	242.70	181.74	2.335		
16,900.00	7,870.00	16,527.69	7,630.00	135.57	131.08	55.57	-5,413.53	4,796.67	424.44	239.81	184.63	2.299		
17,000.00	7,870.00	16,627.69	7,630.00	136.75	132.35	55.57	-5,513.53	4,796.34	424.44	236.92	187.52	2.263		
17,100.00	7,870.00	16,727.69	7,630.00	137.94	133.64	55.57	-5,613.53	4,796.00	424.44	234.02	190.42	2.229		
17,200.00	7,870.00	16,827.69	7,630.00	139.16	134.96	55.57	-5,713.53	4,795.66	424.44	231.12	193.32	2.196		
17,300.00	7,870.00	16,927.69	7,630.00	140.39	136.28	55.57	-5,813.53	4,795.32	424.44	228.22	196.23	2.163		
17,400.00	7,870.00	17,027.69	7,630.00	141.65	137.63	55.57	-5,913.53	4,794.99	424.45	225.31	199.14	2.131		
17,500.00	7,870.00	17,127.69	7,630.00	142.92	138.98	55.57	-6,013.53	4,794.65	424.45	222.40	202.05	2.101		
17,600.00	7,870.00	17,227.69	7,630.00	144.21	140.36	55.57	-6,113.53	4,794.31	424.45	219.48	204.97	2.071		
17,700.00	7,870.00	17,327.69	7,630.00	145.52	141.74	55.57	-6,213.53	4,793.97	424.45	216.56	207.89	2.042		
17,800.00	7,870.00	17,427.69	7,630.00	146.84	143.14	55.57	-6,313.53	4,793.64	424.45	213.63	210.82	2.013		
17,900.00	7,870.00	17,527.69	7,630.00	148.18	144.55	55.57	-6,413.53	4,793.30	424.45	210.70	213.75	1.986		
18,000.00	7,870.00	17,627.69	7,630.00	149.54	145.98	55.57	-6,513.53	4,792.96	424.45	207.77	216.68	1.959		
18,100.00	7,870.00	17,727.69	7,630.00	150.90	147.41	55.57	-6,613.53	4,792.63	424.46	204.84	219.62	1.933		
18,200.00	7,870.00	17,827.69	7,630.00	152.28	148.86	55.57	-6,713.53	4,792.29	424.46	201.90	222.55	1.907		
18,300.00	7,870.00	17,927.69	7,630.00	153.67	150.31	55.57	-6,813.53	4,791.95	424.46	198.96	225.50	1.882		
18,400.00	7,870.00	18,027.69	7,630.00	155.07	151.78	55.57	-6,913.53	4,791.61	424.46	196.02	228.44	1.858		
18,500.00	7,870.00	18,127.69	7,630.00	156.49	153.25	55.57	-7,013.52	4,791.28	424.46	193.07	231.39	1.834		
18,600.00	7,870.00	18,227.69	7,630.00	157.91	154.73	55.57	-7,113.52	4,790.94	424.46	190.13	234.34	1.811		
18,700.00	7,870.00	18,327.69	7,630.00	159.35	156.22	55.57	-7,213.52	4,790.60	424.46	187.17	237.29	1.789		
18,800.00	7,870.00	18,427.69	7,630.00	160.79	157.72	55.57	-7,313.52	4,790.26	424.46	184.22	240.24	1.767		
18,900.00	7,870.00	18,527.69	7,630.00	162.25	159.23	55.57	-7,413.52	4,789.93	424.47	181.27	243.20	1.745		
19,000.00	7,870.00	18,627.69	7,630.00	163.71	160.74	55.57	-7,513.52	4,789.59	424.47	178.31	246.16	1.724		
19,100.00	7,870.00	18,727.69	7,630.00	165.18	162.26	55.57	-7,613.52	4,789.25	424.47	175.35	249.12	1.704		
19,200.00	7,870.00	18,827.69	7,630.00	166.66	163.79	55.57	-7,713.52	4,788.91	424.47	172.39	252.08	1.684		
19,300.00	7,870.00	18,927.69	7,630.00	168.15	165.32	55.57	-7,813.52	4,788.58	424.47	169.43	255.05	1.664		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1K-22H-H168 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,870.00	19,027.69	7,630.00	169.65	166.86	55.57	-7,913.52	4,788.24	424.47	166.46	258.01	1.645	
19,500.00	7,870.00	19,127.69	7,630.00	171.15	168.41	55.57	-8,013.52	4,787.90	424.47	163.49	260.98	1.626	
19,600.00	7,870.00	19,227.69	7,630.00	172.66	169.96	55.57	-8,113.52	4,787.57	424.48	160.52	263.95	1.608	
19,700.00	7,870.00	19,327.69	7,630.00	174.18	171.51	55.57	-8,213.52	4,787.23	424.48	157.55	266.92	1.590	
19,800.00	7,870.00	19,427.69	7,630.00	175.70	173.07	55.57	-8,313.52	4,786.89	424.48	154.58	269.90	1.573	
19,889.26	7,870.00	19,516.95	7,630.00	177.06	174.47	55.57	-8,402.77	4,786.59	424.48	151.93	272.55	1.557	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	9.80	9.80					
100.00	100.00	100.00	100.00	0.13	0.13	90.00	0.00	9.80	9.80	9.53	0.27	36.451		
200.00	200.00	200.00	200.00	0.49	0.49	90.00	0.00	9.80	9.80	8.81	0.99	9.941	CC, ES	
300.00	300.00	299.64	299.62	0.85	0.85	86.93	0.61	11.42	11.44	9.74	1.70	6.727		
400.00	399.98	399.14	398.98	1.21	1.21	14.84	2.45	16.27	14.80	12.39	2.41	6.144		
500.00	499.84	498.52	497.98	1.56	1.57	12.58	5.50	24.34	18.19	15.08	3.11	5.844		
600.00	599.45	597.79	596.51	1.93	1.96	11.22	9.75	35.59	21.59	17.77	3.82	5.653		
700.00	698.70	696.93	694.45	2.32	2.37	10.40	15.20	50.01	24.98	20.45	4.53	5.516		
800.00	797.47	795.97	791.68	2.72	2.81	9.92	21.84	67.58	28.36	23.11	5.24	5.409		
900.00	895.62	894.89	888.09	3.16	3.29	9.67	29.66	88.24	31.71	25.75	5.96	5.318		
1,000.00	993.06	993.69	983.58	3.63	3.80	9.59	38.63	111.99	35.04	28.35	6.69	5.237		
1,100.00	1,089.64	1,092.39	1,078.03	4.14	4.36	9.62	48.76	138.76	38.33	30.91	7.42	5.163		
1,200.00	1,185.27	1,190.97	1,171.33	4.70	4.97	9.75	60.01	168.53	41.59	33.41	8.17	5.088		
1,300.00	1,279.82	1,289.45	1,263.38	5.31	5.63	9.95	72.38	201.25	44.80	35.87	8.93	5.015		
1,400.00	1,373.17	1,387.83	1,354.09	5.97	6.34	10.21	85.84	236.86	47.98	38.27	9.71	4.942		
1,500.00	1,465.21	1,486.10	1,443.34	6.69	7.12	10.51	100.39	275.33	51.11	40.61	10.50	4.867		
1,600.00	1,555.84	1,584.28	1,531.03	7.47	7.95	10.86	115.99	316.59	54.19	42.87	11.31	4.789		
1,700.00	1,644.94	1,682.35	1,617.08	8.31	8.85	11.23	132.62	360.60	57.22	45.07	12.15	4.709		
1,800.00	1,732.39	1,780.33	1,701.39	9.23	9.81	11.64	150.27	407.29	60.19	47.18	13.01	4.627		
1,900.00	1,818.11	1,878.22	1,783.87	10.21	10.84	12.07	168.92	456.60	63.11	49.21	13.90	4.540		
2,000.00	1,901.97	1,976.02	1,864.42	11.26	11.93	12.52	188.52	508.46	65.98	51.15	14.82	4.451		
2,100.00	1,983.88	2,073.73	1,942.96	12.38	13.10	13.00	209.08	562.82	68.78	53.00	15.78	4.358		
2,200.00	2,063.74	2,171.35	2,019.41	13.57	14.33	13.49	230.54	619.61	71.52	54.73	16.78	4.261		
2,300.00	2,141.45	2,268.90	2,093.69	14.84	15.63	14.00	252.90	678.74	74.19	56.36	17.83	4.161		
2,327.78	2,162.65	2,295.98	2,113.93	15.21	15.99	14.14	259.27	695.58	74.93	56.80	18.13	4.133		
2,400.00	2,217.51	2,366.32	2,165.69	16.17	16.99	14.37	276.11	740.13	77.68	58.79	18.90	4.111		
2,500.00	2,293.49	2,465.40	2,237.19	17.51	18.44	14.32	300.36	804.29	83.51	63.45	20.06	4.163		
2,600.00	2,369.47	2,565.23	2,309.13	18.86	19.91	14.26	324.84	869.02	89.48	68.19	21.29	4.202		
2,700.00	2,445.45	2,665.05	2,381.07	20.22	21.39	14.21	349.31	933.75	95.45	72.91	22.54	4.236		
2,800.00	2,521.42	2,764.87	2,453.00	21.59	22.88	14.16	373.78	998.49	101.42	77.63	23.79	4.264		
2,900.00	2,597.40	2,864.69	2,524.94	22.97	24.38	14.12	398.26	1,063.22	107.38	82.34	25.05	4.288		
3,000.00	2,673.38	2,964.51	2,596.88	24.34	25.88	14.08	422.73	1,127.95	113.35	87.04	26.31	4.308		
3,100.00	2,749.36	3,064.33	2,668.82	25.73	27.39	14.05	447.20	1,192.68	119.32	91.74	27.58	4.326		
3,200.00	2,825.33	3,164.16	2,740.76	27.11	28.90	14.02	471.67	1,257.42	125.29	96.43	28.86	4.342		
3,300.00	2,901.31	3,263.98	2,812.70	28.50	30.41	13.99	496.15	1,322.15	131.25	101.12	30.14	4.355		
3,400.00	2,977.29	3,363.80	2,884.64	29.90	31.93	13.97	520.62	1,386.88	137.22	105.80	31.42	4.367		
3,500.00	3,053.27	3,463.62	2,956.58	31.29	33.44	13.95	545.09	1,451.61	143.19	110.48	32.71	4.378		
3,600.00	3,129.24	3,563.44	3,028.52	32.69	34.97	13.93	569.56	1,516.34	149.16	115.16	34.00	4.388		
3,700.00	3,205.22	3,663.27	3,100.46	34.08	36.49	13.91	594.04	1,581.08	155.13	119.84	35.29	4.396		
3,800.00	3,281.20	3,763.09	3,172.39	35.48	38.01	13.89	618.51	1,645.81	161.09	124.51	36.58	4.404		
3,900.00	3,357.18	3,862.91	3,244.33	36.88	39.54	13.87	642.98	1,710.54	167.06	129.18	37.88	4.411		
4,000.00	3,433.15	3,962.73	3,316.27	38.29	41.06	13.86	667.45	1,775.27	173.03	133.85	39.18	4.417		
4,100.00	3,509.13	4,062.55	3,388.21	39.69	42.59	13.84	691.93	1,840.00	179.00	138.52	40.47	4.422		
4,200.00	3,585.11	4,162.37	3,460.15	41.09	44.12	13.83	716.40	1,904.74	184.97	143.19	41.78	4.428		
4,300.00	3,661.08	4,262.20	3,532.09	42.50	45.65	13.82	740.87	1,969.47	190.93	147.86	43.08	4.432		
4,400.00	3,737.06	4,362.02	3,604.03	43.90	47.18	13.80	765.34	2,034.20	196.90	152.52	44.38	4.437		
4,500.00	3,813.04	4,461.84	3,675.97	45.31	48.71	13.79	789.82	2,098.93	202.87	157.18	45.69	4.440		
4,600.00	3,889.02	4,561.66	3,747.91	46.71	50.24	13.78	814.29	2,163.67	208.84	161.85	46.99	4.444		
4,700.00	3,964.99	4,661.48	3,819.85	48.12	51.77	13.77	838.76	2,228.40	214.81	166.51	48.30	4.447		
4,800.00	4,040.97	4,761.30	3,891.78	49.53	53.30	13.76	863.24	2,293.13	220.77	171.17	49.61	4.451		
4,900.00	4,116.95	4,861.13	3,963.72	50.94	54.84	13.75	887.71	2,357.86	226.74	175.83	50.91	4.453		
5,000.00	4,192.93	4,960.95	4,035.66	52.35	56.37	13.74	912.18	2,422.59	232.71	180.49	52.22	4.456		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,268.90	5,060.77	4,107.60	53.76	57.91	13.74	936.65	2,487.33	238.68	185.14	53.53	4.458		
5,200.00	4,344.88	5,160.59	4,179.54	55.16	59.44	13.73	961.13	2,552.06	244.65	189.80	54.84	4.461		
5,300.00	4,420.86	5,260.41	4,251.48	56.57	60.97	13.72	985.60	2,616.79	250.61	194.46	56.16	4.463		
5,400.00	4,496.84	5,360.23	4,323.42	57.98	62.51	13.71	1,010.07	2,681.52	256.58	199.12	57.47	4.465		
5,500.00	4,572.81	5,460.06	4,395.36	59.39	64.04	13.71	1,034.54	2,746.26	262.55	203.77	58.78	4.467		
5,600.00	4,648.79	5,559.88	4,467.30	60.81	65.58	13.70	1,059.02	2,810.99	268.52	208.43	60.09	4.469		
5,700.00	4,724.77	5,659.70	4,539.24	62.22	67.12	13.70	1,083.49	2,875.72	274.49	213.08	61.40	4.470		
5,800.00	4,800.74	5,759.52	4,611.18	63.63	68.65	13.69	1,107.96	2,940.45	280.46	217.74	62.72	4.472		
5,900.00	4,876.72	5,859.34	4,683.11	65.04	70.19	13.68	1,132.43	3,005.18	286.42	222.39	64.03	4.473		
6,000.00	4,952.70	5,959.17	4,755.05	66.45	71.73	13.68	1,156.91	3,069.92	292.39	227.05	65.35	4.475		
6,100.00	5,028.68	6,058.99	4,826.99	67.86	73.26	13.67	1,181.38	3,134.65	298.36	231.70	66.66	4.476		
6,200.00	5,104.65	6,158.81	4,898.93	69.27	74.80	13.67	1,205.85	3,199.38	304.33	236.35	67.98	4.477		
6,300.00	5,180.63	6,258.63	4,970.87	70.69	76.34	13.66	1,230.32	3,264.11	310.30	241.01	69.29	4.478		
6,400.00	5,256.61	6,358.45	5,042.81	72.10	77.87	13.66	1,254.80	3,328.84	316.26	245.66	70.61	4.479		
6,500.00	5,332.59	6,458.27	5,114.75	73.51	79.41	13.66	1,279.27	3,393.58	322.23	250.31	71.92	4.480		
6,600.00	5,408.56	6,558.10	5,186.69	74.92	80.95	13.65	1,303.74	3,458.31	328.20	254.96	73.24	4.481		
6,700.00	5,484.54	6,657.92	5,258.63	76.34	82.49	13.65	1,328.22	3,523.04	334.17	259.61	74.55	4.482		
6,800.00	5,560.52	6,757.74	5,330.57	77.75	84.03	13.64	1,352.69	3,587.77	340.14	264.27	75.87	4.483		
6,900.00	5,636.50	6,857.56	5,402.50	79.16	85.56	13.64	1,377.16	3,652.51	346.10	268.92	77.19	4.484		
7,000.00	5,712.47	6,957.38	5,474.44	80.57	87.10	13.64	1,401.63	3,717.24	352.07	273.57	78.50	4.485		
7,100.00	5,788.45	7,057.20	5,546.38	81.99	88.64	13.63	1,426.11	3,781.97	358.04	278.22	79.82	4.485		
7,200.00	5,864.43	7,157.03	5,618.32	83.40	90.18	13.63	1,450.58	3,846.70	364.01	282.87	81.14	4.486		
7,300.00	5,940.40	7,256.85	5,690.26	84.81	91.72	13.63	1,475.05	3,911.43	369.98	287.52	82.46	4.487		
7,400.00	6,016.38	7,356.67	5,762.20	86.23	93.26	13.62	1,499.52	3,976.17	375.95	292.17	83.77	4.488		
7,500.00	6,092.36	7,456.49	5,834.14	87.64	94.79	13.62	1,524.00	4,040.90	381.91	296.82	85.09	4.488		
7,600.00	6,168.34	7,556.31	5,906.08	89.05	96.33	13.62	1,548.47	4,105.63	387.88	301.47	86.41	4.489		
7,700.00	6,244.31	7,656.14	5,978.02	90.47	97.87	13.61	1,572.94	4,170.36	393.85	306.12	87.73	4.489		
7,800.00	6,320.29	7,755.96	6,049.96	91.88	99.41	13.61	1,597.41	4,235.09	399.82	310.77	89.05	4.490		
7,900.00	6,396.27	7,855.78	6,121.89	93.30	100.95	13.61	1,621.89	4,299.83	405.79	315.42	90.37	4.490		
8,000.00	6,472.25	7,955.60	6,193.83	94.71	102.49	13.60	1,646.36	4,364.56	411.75	320.07	91.68	4.491		
8,100.00	6,548.22	8,055.42	6,265.77	96.12	104.03	13.60	1,670.83	4,429.29	417.72	324.72	93.00	4.491		
8,200.00	6,624.20	8,155.24	6,337.71	97.54	105.57	13.60	1,695.30	4,494.02	423.69	329.37	94.32	4.492		
8,300.00	6,700.18	8,255.07	6,409.65	98.95	107.11	13.60	1,719.78	4,558.76	429.66	334.02	95.64	4.492		
8,400.00	6,776.16	8,354.89	6,481.59	100.37	108.65	13.59	1,744.25	4,623.49	435.63	338.67	96.96	4.493		
8,500.00	6,852.13	8,454.71	6,553.53	101.78	110.19	13.59	1,768.72	4,688.22	441.59	343.32	98.28	4.493		
8,600.00	6,928.11	8,554.53	6,625.47	103.20	111.73	13.59	1,793.19	4,752.95	447.56	347.96	99.60	4.494		
8,700.00	7,004.09	8,654.35	6,697.41	104.61	113.27	13.59	1,817.67	4,817.68	453.53	352.61	100.92	4.494		
8,800.00	7,080.06	8,754.17	6,769.35	106.02	114.81	13.59	1,842.14	4,882.42	459.50	357.26	102.24	4.494		
8,900.00	7,156.04	8,854.00	6,841.28	107.44	116.34	13.58	1,866.61	4,947.15	465.47	361.91	103.56	4.495		
9,000.00	7,232.02	8,953.82	6,913.22	108.85	117.88	13.58	1,891.09	5,011.88	471.44	366.56	104.88	4.495		
9,104.68	7,311.55	9,060.35	6,990.46	110.33	119.52	13.93	1,914.37	5,081.37	477.56	370.75	106.81	4.471		
9,150.00	7,346.29	9,106.76	7,024.77	110.97	120.21	9.51	1,919.30	5,112.22	480.13	371.86	108.26	4.435		
9,200.00	7,385.15	9,157.51	7,062.50	111.65	120.95	4.31	1,920.40	5,146.13	483.04	373.23	109.82	4.399		
9,250.00	7,424.29	9,207.82	7,099.82	112.31	121.64	-1.06	1,917.06	5,179.66	486.04	374.76	111.28	4.368		
9,300.00	7,463.40	9,257.67	7,136.47	112.93	122.28	-6.42	1,909.43	5,212.56	489.08	376.47	112.62	4.343		
9,350.00	7,502.19	9,307.10	7,172.18	113.51	122.86	-11.59	1,897.66	5,244.62	492.15	378.36	113.80	4.325		
9,400.00	7,540.36	9,356.12	7,206.73	114.04	123.40	-16.42	1,881.94	5,275.62	495.22	380.43	114.79	4.314		
9,450.00	7,577.62	9,404.75	7,239.90	114.53	123.87	-20.80	1,862.49	5,305.36	498.26	382.69	115.58	4.311		
9,500.00	7,613.70	9,453.00	7,271.49	114.95	124.28	-24.67	1,839.53	5,333.67	501.25	385.10	116.15	4.315		
9,550.00	7,648.30	9,500.91	7,301.33	115.32	124.63	-28.03	1,813.28	5,360.40	504.16	387.65	116.51	4.327		
9,600.00	7,681.18	9,548.48	7,329.25	115.63	124.92	-30.91	1,783.99	5,385.39	506.96	390.30	116.66	4.346		
9,650.00	7,712.08	9,595.76	7,355.12	115.88	125.16	-33.34	1,751.91	5,408.53	509.62	393.01	116.60	4.370		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,700.00	7,740.76	9,642.75	7,378.80	116.08	125.34	-35.36	1,717.29	5,429.69	512.12	395.74	116.38	4.400		
9,750.00	7,767.01	9,689.48	7,400.18	116.23	125.47	-37.03	1,680.40	5,448.78	514.43	398.43	116.00	4.435		
9,800.00	7,790.63	9,735.98	7,419.17	116.33	125.56	-38.40	1,641.49	5,465.72	516.54	401.03	115.51	4.472		
9,850.00	7,811.44	9,782.28	7,435.69	116.38	125.60	-39.49	1,600.84	5,480.43	518.42	403.48	114.94	4.510		
9,900.00	7,829.28	9,828.39	7,449.66	116.38	125.61	-40.35	1,558.70	5,492.85	520.05	405.74	114.32	4.549		
9,950.00	7,844.01	9,874.34	7,461.04	116.35	125.58	-41.00	1,515.35	5,502.93	521.42	407.74	113.68	4.587		
10,000.00	7,855.52	9,920.16	7,469.78	116.28	125.52	-41.46	1,471.05	5,510.63	522.51	409.44	113.06	4.621		
10,050.00	7,863.72	9,965.86	7,475.85	116.18	125.43	-41.76	1,426.08	5,515.93	523.31	410.81	112.50	4.652		
10,100.00	7,868.56	10,011.47	7,479.23	116.06	125.33	-41.90	1,380.69	5,518.82	523.81	411.81	112.00	4.677		
10,145.94	7,870.00	10,054.06	7,480.00	115.92	125.21	-41.90	1,338.13	5,519.37	523.99	412.28	111.72	4.690		
10,200.00	7,870.00	10,108.12	7,480.00	115.76	125.05	-41.90	1,284.07	5,519.18	523.99	412.02	111.98	4.679		
10,300.00	7,870.00	10,208.12	7,480.00	115.46	124.77	-41.90	1,184.07	5,518.85	523.99	411.49	112.51	4.657		
10,400.00	7,870.00	10,308.12	7,480.00	115.18	124.50	-41.90	1,084.07	5,518.51	523.99	410.90	113.09	4.633		
10,500.00	7,870.00	10,408.12	7,480.00	114.91	124.25	-41.90	984.07	5,518.17	523.99	410.25	113.74	4.607		
10,600.00	7,870.00	10,508.12	7,480.00	114.65	124.00	-41.90	884.07	5,517.84	523.99	409.55	114.44	4.579		
10,700.00	7,870.00	10,608.12	7,480.00	114.41	123.77	-41.90	784.07	5,517.50	523.99	408.79	115.20	4.549		
10,800.00	7,870.00	10,708.12	7,480.00	114.17	123.55	-41.90	684.07	5,517.16	523.99	407.98	116.01	4.517		
10,900.00	7,870.00	10,808.12	7,480.00	113.95	123.33	-41.90	584.07	5,516.82	523.99	407.11	116.87	4.483		
11,000.00	7,870.00	10,908.12	7,480.00	113.75	123.13	-41.90	484.07	5,516.49	523.99	406.19	117.79	4.448		
11,100.00	7,870.00	11,008.12	7,480.00	113.55	122.94	-41.90	384.07	5,516.15	523.99	405.22	118.76	4.412		
11,200.00	7,870.00	11,108.12	7,480.00	113.37	122.76	-41.90	284.07	5,515.81	523.99	404.20	119.78	4.374		
11,300.00	7,870.00	11,208.12	7,480.00	113.20	122.60	-41.90	184.08	5,515.48	523.99	403.13	120.85	4.336		
11,400.00	7,870.00	11,308.12	7,480.00	113.04	122.44	-41.90	84.08	5,515.14	523.98	402.01	121.97	4.296		
11,500.00	7,870.00	11,408.12	7,480.00	112.89	122.30	-41.90	-15.92	5,514.80	523.98	400.85	123.13	4.255		
11,600.00	7,870.00	11,508.12	7,480.00	112.76	122.16	-41.90	-115.92	5,514.47	523.98	399.64	124.34	4.214		
11,700.00	7,870.00	11,608.12	7,480.00	112.64	122.04	-41.90	-215.92	5,514.13	523.98	398.39	125.59	4.172		
11,800.00	7,870.00	11,708.12	7,480.00	112.53	121.93	-41.90	-315.92	5,513.79	523.98	397.09	126.89	4.129		
11,900.00	7,870.00	11,808.12	7,480.00	112.44	121.83	-41.90	-415.92	5,513.46	523.98	395.76	128.22	4.086		
12,000.00	7,870.00	11,908.12	7,480.00	112.36	121.74	-41.90	-515.92	5,513.12	523.98	394.38	129.60	4.043		
12,100.00	7,870.00	12,008.12	7,480.00	112.29	121.67	-41.90	-615.92	5,512.78	523.98	392.97	131.01	3.999		
12,200.00	7,870.00	12,108.12	7,480.00	112.24	121.61	-41.90	-715.92	5,512.45	523.98	391.51	132.46	3.956		
12,300.00	7,870.00	12,208.12	7,480.00	112.20	121.56	-41.90	-815.92	5,512.11	523.98	390.03	133.95	3.912		
12,400.00	7,870.00	12,308.12	7,480.00	112.17	121.52	-41.90	-915.92	5,511.77	523.98	388.50	135.47	3.868		
12,500.00	7,870.00	12,408.12	7,480.00	112.16	121.49	-41.90	-1,015.92	5,511.44	523.98	386.94	137.03	3.824		
12,600.00	7,870.00	12,508.12	7,480.00	112.17	121.48	-41.90	-1,115.92	5,511.10	523.97	385.36	138.62	3.780		
12,700.00	7,870.00	12,608.12	7,480.00	112.19	121.48	-41.90	-1,215.92	5,510.76	523.97	383.73	140.24	3.736		
12,800.00	7,870.00	12,708.12	7,480.00	112.23	121.50	-41.90	-1,315.92	5,510.42	523.97	382.08	141.89	3.693		
12,900.00	7,870.00	12,808.12	7,480.00	112.28	121.53	-41.90	-1,415.92	5,510.09	523.97	380.40	143.57	3.650		
13,000.00	7,870.00	12,908.12	7,480.00	112.36	121.57	-41.90	-1,515.91	5,509.75	523.97	378.69	145.28	3.607		
13,100.00	7,870.00	13,008.12	7,480.00	112.45	121.63	-41.90	-1,615.91	5,509.41	523.97	376.96	147.01	3.564		
13,200.00	7,870.00	13,108.12	7,480.00	112.56	121.71	-41.90	-1,715.91	5,509.08	523.97	375.19	148.78	3.522		
13,300.00	7,870.00	13,208.12	7,480.00	112.68	121.80	-41.90	-1,815.91	5,508.74	523.97	373.40	150.56	3.480		
13,400.00	7,870.00	13,308.12	7,480.00	112.83	121.91	-41.90	-1,915.91	5,508.40	523.97	371.59	152.38	3.439		
13,500.00	7,870.00	13,408.12	7,480.00	113.00	122.03	-41.90	-2,015.91	5,508.07	523.97	369.75	154.21	3.398		
13,600.00	7,870.00	13,508.12	7,480.00	113.19	122.17	-41.90	-2,115.91	5,507.73	523.97	367.89	156.07	3.357		
13,700.00	7,870.00	13,608.12	7,480.00	113.40	122.33	-41.90	-2,215.91	5,507.39	523.97	366.01	157.95	3.317		
13,800.00	7,870.00	13,708.12	7,480.00	113.63	122.51	-41.90	-2,315.91	5,507.06	523.96	364.11	159.86	3.278		
13,900.00	7,870.00	13,808.12	7,480.00	113.89	122.71	-41.90	-2,415.91	5,506.72	523.96	362.18	161.78	3.239		
14,000.00	7,870.00	13,908.12	7,480.00	114.18	122.92	-41.90	-2,515.91	5,506.38	523.96	360.24	163.72	3.200		
14,100.00	7,870.00	14,008.12	7,480.00	114.48	123.16	-41.90	-2,615.91	5,506.05	523.96	358.28	165.68	3.162		
14,200.00	7,870.00	14,108.12	7,480.00	114.82	123.42	-41.90	-2,715.91	5,505.71	523.96	356.30	167.66	3.125		
14,300.00	7,870.00	14,208.12	7,480.00	115.18	123.71	-41.90	-2,815.91	5,505.37	523.96	354.30	169.66	3.088		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,400.00	7,870.00	14,308.12	7,480.00	115.57	124.01	-41.90	-2,915.91	5,505.03	523.96	352.28	171.68	3.052		
14,500.00	7,870.00	14,408.12	7,480.00	115.99	124.34	-41.90	-3,015.91	5,504.70	523.96	350.25	173.71	3.016		
14,600.00	7,870.00	14,508.12	7,480.00	116.44	124.69	-41.90	-3,115.91	5,504.36	523.96	348.20	175.76	2.981		
14,700.00	7,870.00	14,608.12	7,480.00	116.92	125.07	-41.90	-3,215.91	5,504.02	523.96	346.14	177.82	2.947		
14,800.00	7,870.00	14,708.12	7,480.00	117.44	125.47	-41.90	-3,315.90	5,503.69	523.96	344.06	179.90	2.912		
14,900.00	7,870.00	14,808.12	7,480.00	117.98	125.91	-41.90	-3,415.90	5,503.35	523.96	341.96	181.99	2.879		
15,000.00	7,870.00	14,908.12	7,480.00	118.56	126.36	-41.90	-3,515.90	5,503.01	523.96	339.86	184.10	2.846		
15,100.00	7,870.00	15,008.12	7,480.00	119.17	126.85	-41.90	-3,615.90	5,502.68	523.95	337.73	186.22	2.814		
15,200.00	7,870.00	15,108.12	7,480.00	119.81	127.36	-41.90	-3,715.90	5,502.34	523.95	335.60	188.35	2.782		
15,300.00	7,870.00	15,208.12	7,480.00	120.48	127.91	-41.90	-3,815.90	5,502.00	523.95	333.45	190.50	2.750		
15,400.00	7,870.00	15,308.12	7,480.00	121.19	128.48	-41.90	-3,915.90	5,501.67	523.95	331.30	192.66	2.720		
15,500.00	7,870.00	15,408.12	7,480.00	121.93	129.08	-41.90	-4,015.90	5,501.33	523.95	329.13	194.83	2.689		
15,600.00	7,870.00	15,508.12	7,480.00	122.71	129.71	-41.90	-4,115.90	5,500.99	523.95	326.94	197.01	2.660		
15,700.00	7,870.00	15,608.12	7,480.00	123.52	130.38	-41.90	-4,215.90	5,500.66	523.95	324.75	199.20	2.630		
15,800.00	7,870.00	15,708.12	7,480.00	124.36	131.07	-41.90	-4,315.90	5,500.32	523.95	322.55	201.40	2.602		
15,900.00	7,870.00	15,808.12	7,480.00	125.23	131.80	-41.90	-4,415.90	5,499.98	523.95	320.33	203.61	2.573		
16,000.00	7,870.00	15,908.12	7,480.00	126.14	132.55	-41.90	-4,515.90	5,499.65	523.95	318.11	205.84	2.545		
16,100.00	7,870.00	16,008.12	7,480.00	127.07	133.34	-41.90	-4,615.90	5,499.31	523.95	315.88	208.07	2.518		
16,200.00	7,870.00	16,108.12	7,480.00	128.04	134.15	-41.90	-4,715.90	5,498.97	523.95	313.63	210.31	2.491		
16,300.00	7,870.00	16,208.12	7,480.00	129.04	135.00	-41.90	-4,815.90	5,498.63	523.94	311.38	212.56	2.465		
16,400.00	7,870.00	16,308.12	7,480.00	130.06	135.87	-41.90	-4,915.90	5,498.30	523.94	309.12	214.82	2.439		
16,500.00	7,870.00	16,408.12	7,480.00	131.11	136.78	-41.90	-5,015.90	5,497.96	523.94	306.85	217.09	2.413		
16,600.00	7,870.00	16,508.12	7,480.00	132.19	137.71	-41.90	-5,115.89	5,497.62	523.94	304.58	219.37	2.388		
16,700.00	7,870.00	16,608.12	7,480.00	133.29	138.67	-41.90	-5,215.89	5,497.29	523.94	302.29	221.65	2.364		
16,800.00	7,870.00	16,708.12	7,480.00	134.42	139.66	-41.90	-5,315.89	5,496.95	523.94	300.00	223.94	2.340		
16,900.00	7,870.00	16,808.12	7,480.00	135.57	140.67	-41.90	-5,415.89	5,496.61	523.94	297.70	226.24	2.316		
17,000.00	7,870.00	16,908.12	7,480.00	136.75	141.71	-41.90	-5,515.89	5,496.28	523.94	295.39	228.55	2.292		
17,100.00	7,870.00	17,008.12	7,480.00	137.94	142.78	-41.90	-5,615.89	5,495.94	523.94	293.08	230.86	2.269		
17,200.00	7,870.00	17,108.12	7,480.00	139.16	143.87	-41.90	-5,715.89	5,495.60	523.94	290.76	233.18	2.247		
17,300.00	7,870.00	17,208.12	7,480.00	140.39	144.98	-41.90	-5,815.89	5,495.27	523.94	288.43	235.51	2.225		
17,400.00	7,870.00	17,308.12	7,480.00	141.65	146.12	-41.90	-5,915.89	5,494.93	523.94	286.09	237.84	2.203		
17,500.00	7,870.00	17,408.12	7,480.00	142.92	147.28	-41.90	-6,015.89	5,494.59	523.93	283.75	240.18	2.181		
17,600.00	7,870.00	17,508.12	7,480.00	144.21	148.45	-41.90	-6,115.89	5,494.26	523.93	281.41	242.53	2.160		
17,700.00	7,870.00	17,608.12	7,480.00	145.52	149.65	-41.90	-6,215.89	5,493.92	523.93	279.05	244.88	2.140		
17,800.00	7,870.00	17,708.12	7,480.00	146.84	150.87	-41.89	-6,315.89	5,493.58	523.93	276.70	247.24	2.119		
17,900.00	7,870.00	17,808.12	7,480.00	148.18	152.11	-41.89	-6,415.89	5,493.24	523.93	274.33	249.60	2.099		
18,000.00	7,870.00	17,908.12	7,480.00	149.54	153.37	-41.89	-6,515.89	5,492.91	523.93	271.96	251.97	2.079		
18,100.00	7,870.00	18,008.12	7,480.00	150.90	154.64	-41.89	-6,615.89	5,492.57	523.93	269.59	254.34	2.060		
18,200.00	7,870.00	18,108.12	7,480.00	152.28	155.93	-41.89	-6,715.89	5,492.23	523.93	267.21	256.72	2.041		
18,300.00	7,870.00	18,208.12	7,480.00	153.67	157.23	-41.89	-6,815.88	5,491.90	523.93	264.83	259.10	2.022		
18,400.00	7,870.00	18,308.12	7,480.00	155.07	158.55	-41.89	-6,915.88	5,491.56	523.93	262.44	261.49	2.004		
18,500.00	7,870.00	18,408.12	7,480.00	156.49	159.88	-41.89	-7,015.88	5,491.22	523.93	260.04	263.88	1.985		
18,600.00	7,870.00	18,508.12	7,480.00	157.91	161.23	-41.89	-7,115.88	5,490.89	523.93	257.64	266.28	1.968		
18,700.00	7,870.00	18,608.12	7,480.00	159.35	162.59	-41.89	-7,215.88	5,490.55	523.93	255.24	268.68	1.950		
18,800.00	7,870.00	18,708.12	7,480.00	160.79	163.97	-41.89	-7,315.88	5,490.21	523.92	252.83	271.09	1.933		
18,900.00	7,870.00	18,808.12	7,480.00	162.25	165.35	-41.89	-7,415.88	5,489.88	523.92	250.42	273.50	1.916		
19,000.00	7,870.00	18,908.12	7,480.00	163.71	166.75	-41.89	-7,515.88	5,489.54	523.92	248.01	275.91	1.899		
19,100.00	7,870.00	19,008.12	7,480.00	165.18	168.16	-41.89	-7,615.88	5,489.20	523.92	245.59	278.33	1.882		
19,200.00	7,870.00	19,108.12	7,480.00	166.66	169.57	-41.89	-7,715.88	5,488.87	523.92	243.17	280.76	1.866		
19,300.00	7,870.00	19,208.12	7,480.00	168.15	171.00	-41.89	-7,815.88	5,488.53	523.92	240.74	283.18	1.850		
19,400.00	7,870.00	19,308.12	7,480.00	169.65	172.44	-41.89	-7,915.88	5,488.19	523.92	238.31	285.61	1.834		
19,500.00	7,870.00	19,408.12	7,480.00	171.15	173.89	-41.89	-8,015.88	5,487.85	523.92	235.87	288.05	1.819		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,600.00	7,870.00	19,508.12	7,480.00	172.66	175.34	-41.89	-8,115.88	5,487.52	523.92	233.43	290.48	1.804	
19,700.00	7,870.00	19,608.12	7,480.00	174.18	176.81	-41.89	-8,215.88	5,487.18	523.92	230.99	292.92	1.789	
19,800.00	7,870.00	19,708.12	7,480.00	175.70	178.28	-41.89	-8,315.88	5,486.84	523.92	228.55	295.37	1.774	
19,889.26	7,870.00	19,797.37	7,480.00	177.06	179.60	-41.89	-8,405.13	5,486.54	523.92	226.36	297.55	1.761 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	91.05	-0.36	19.88	19.88					
100.00	100.00	100.00	100.00	0.13	0.13	91.05	-0.36	19.88	19.88	19.61	0.27	73.957	CC, ES	
200.00	200.00	199.31	199.29	0.49	0.49	89.44	0.21	21.50	21.51	20.53	0.99	21.782		
300.00	300.00	298.39	298.23	0.85	0.85	85.80	1.93	26.35	26.48	24.77	1.71	15.505		
400.00	399.98	397.15	396.62	1.21	1.22	14.62	4.79	34.39	33.20	30.79	2.42	13.742		
500.00	499.84	495.68	494.43	1.56	1.61	12.81	8.76	45.59	39.96	36.85	3.12	12.816		
600.00	599.45	593.99	591.54	1.93	2.03	11.69	13.85	59.92	46.73	42.90	3.82	12.218		
700.00	698.70	692.06	687.86	2.32	2.47	11.02	20.03	77.33	53.46	48.93	4.53	11.790		
800.00	797.47	789.92	783.27	2.72	2.95	10.63	27.30	97.79	60.16	54.91	5.25	11.458		
900.00	895.62	887.56	877.67	3.16	3.47	10.43	35.63	121.25	66.80	60.83	5.97	11.184		
1,000.00	993.06	984.98	970.97	3.63	4.03	10.39	45.01	147.67	73.38	66.68	6.70	10.953		
1,100.00	1,089.64	1,082.20	1,063.07	4.14	4.64	10.45	55.42	177.00	79.88	72.44	7.44	10.736		
1,200.00	1,185.27	1,179.20	1,153.86	4.70	5.29	10.59	66.85	209.19	86.31	78.12	8.19	10.535		
1,300.00	1,279.82	1,276.01	1,243.26	5.31	6.01	10.80	79.27	244.17	92.66	83.70	8.96	10.343		
1,400.00	1,373.17	1,372.62	1,331.18	5.97	6.77	11.06	92.66	281.91	98.92	89.18	9.74	10.156		
1,500.00	1,465.21	1,469.04	1,417.52	6.69	7.60	11.36	107.01	322.33	105.08	94.54	10.54	9.970		
1,600.00	1,555.84	1,565.27	1,502.21	7.47	8.48	11.70	122.30	365.38	111.14	99.78	11.36	9.784		
1,700.00	1,644.94	1,661.32	1,585.17	8.31	9.42	12.07	138.50	411.00	117.10	104.90	12.20	9.596		
1,800.00	1,732.39	1,757.19	1,666.30	9.23	10.43	12.47	155.58	459.12	122.95	109.88	13.07	9.404		
1,900.00	1,818.11	1,852.89	1,745.54	10.21	11.50	12.89	173.53	509.68	128.69	114.71	13.97	9.209		
2,000.00	1,901.97	1,948.43	1,822.82	11.26	12.63	13.34	192.32	562.61	134.30	119.40	14.91	9.008		
2,100.00	1,983.88	2,043.80	1,898.05	12.38	13.83	13.80	211.93	617.85	139.80	123.92	15.88	8.803		
2,200.00	2,063.74	2,139.02	1,971.17	13.57	15.09	14.28	232.34	675.32	145.17	128.28	16.89	8.593		
2,300.00	2,141.45	2,234.09	2,042.11	14.84	16.41	14.77	253.51	734.95	150.42	132.46	17.96	8.378		
2,327.78	2,162.65	2,260.48	2,061.43	15.21	16.79	14.91	259.52	751.89	151.85	133.60	18.26	8.317		
2,400.00	2,217.51	2,330.92	2,112.35	16.17	17.82	15.24	275.81	797.75	156.17	137.03	19.13	8.162		
2,500.00	2,293.49	2,430.71	2,184.33	17.51	19.30	15.67	298.93	862.89	162.40	141.93	20.47	7.935		
2,600.00	2,369.47	2,530.51	2,256.31	18.86	20.79	16.06	322.06	928.04	168.63	146.81	21.82	7.727		
2,700.00	2,445.45	2,630.31	2,328.29	20.22	22.29	16.42	345.19	993.18	174.88	151.67	23.20	7.536		
2,800.00	2,521.42	2,730.11	2,400.27	21.59	23.79	16.76	368.32	1,058.33	181.13	156.52	24.61	7.361		
2,900.00	2,597.40	2,829.91	2,472.25	22.97	25.30	17.07	391.45	1,123.47	187.38	161.36	26.02	7.201		
3,000.00	2,673.38	2,929.71	2,544.23	24.34	26.81	17.37	414.58	1,188.62	193.64	166.19	27.46	7.053		
3,100.00	2,749.36	3,029.51	2,616.21	25.73	28.33	17.64	437.70	1,253.76	199.91	171.00	28.91	6.916		
3,200.00	2,825.33	3,129.31	2,688.19	27.11	29.84	17.90	460.83	1,318.91	206.18	175.81	30.37	6.790		
3,300.00	2,901.31	3,229.11	2,760.17	28.50	31.37	18.15	483.96	1,384.05	212.45	180.61	31.84	6.673		
3,400.00	2,977.29	3,328.91	2,832.15	29.90	32.89	18.38	507.09	1,449.19	218.73	185.41	33.32	6.564		
3,500.00	3,053.27	3,428.70	2,904.13	31.29	34.42	18.59	530.22	1,514.34	225.01	190.20	34.81	6.463		
3,600.00	3,129.24	3,528.50	2,976.11	32.69	35.94	18.80	553.35	1,579.48	231.30	194.98	36.31	6.369		
3,700.00	3,205.22	3,628.30	3,048.09	34.08	37.47	18.99	576.48	1,644.63	237.58	199.76	37.82	6.281		
3,800.00	3,281.20	3,728.10	3,120.07	35.48	39.00	19.18	599.60	1,709.77	243.87	204.53	39.34	6.199		
3,900.00	3,357.18	3,827.90	3,192.05	36.88	40.53	19.35	622.73	1,774.92	250.17	209.30	40.86	6.122		
4,000.00	3,433.15	3,927.70	3,264.03	38.29	42.07	19.52	645.86	1,840.06	256.46	214.07	42.39	6.050		
4,100.00	3,509.13	4,027.50	3,336.01	39.69	43.60	19.68	668.99	1,905.21	262.76	218.83	43.93	5.982		
4,200.00	3,585.11	4,127.30	3,407.99	41.09	45.13	19.83	692.12	1,970.35	269.05	223.59	45.47	5.917		
4,300.00	3,661.08	4,227.10	3,479.97	42.50	46.67	19.97	715.25	2,035.49	275.35	228.34	47.01	5.857		
4,400.00	3,737.06	4,326.90	3,551.95	43.90	48.21	20.11	738.37	2,100.64	281.66	233.09	48.56	5.800		
4,500.00	3,813.04	4,426.69	3,623.93	45.31	49.74	20.24	761.50	2,165.78	287.96	237.84	50.12	5.746		
4,600.00	3,889.02	4,526.49	3,695.92	46.71	51.28	20.37	784.63	2,230.93	294.26	242.59	51.67	5.695		
4,700.00	3,964.99	4,626.29	3,767.90	48.12	52.82	20.49	807.76	2,296.07	300.57	247.33	53.24	5.646		
4,800.00	4,040.97	4,726.09	3,839.88	49.53	54.35	20.61	830.89	2,361.22	306.88	252.08	54.80	5.600		
4,900.00	4,116.95	4,825.89	3,911.86	50.94	55.89	20.72	854.02	2,426.36	313.19	256.82	56.37	5.556		
5,000.00	4,192.93	4,925.69	3,983.84	52.35	57.43	20.83	877.14	2,491.50	319.50	261.55	57.94	5.514		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,268.90	5,025.49	4,055.82	53.76	58.97	20.93	900.27	2,556.65	325.81	266.29	59.52	5.474		
5,200.00	4,344.88	5,125.29	4,127.80	55.16	60.51	21.03	923.40	2,621.79	332.12	271.03	61.09	5.436		
5,300.00	4,420.86	5,225.09	4,199.78	56.57	62.05	21.12	946.53	2,686.94	338.43	275.76	62.67	5.400		
5,400.00	4,496.84	5,324.89	4,271.76	57.98	63.59	21.21	969.66	2,752.08	344.74	280.49	64.25	5.365		
5,500.00	4,572.81	5,424.68	4,343.74	59.39	65.13	21.30	992.79	2,817.23	351.06	285.22	65.84	5.332		
5,600.00	4,648.79	5,524.48	4,415.72	60.81	66.67	21.39	1,015.92	2,882.37	357.37	289.95	67.42	5.300		
5,700.00	4,724.77	5,624.28	4,487.70	62.22	68.21	21.47	1,039.04	2,947.52	363.69	294.68	69.01	5.270		
5,800.00	4,800.74	5,724.08	4,559.68	63.63	69.75	21.55	1,062.17	3,012.66	370.01	299.40	70.60	5.241		
5,900.00	4,876.72	5,823.88	4,631.66	65.04	71.29	21.63	1,085.30	3,077.80	376.32	304.13	72.19	5.213		
6,000.00	4,952.70	5,923.68	4,703.64	66.45	72.83	21.70	1,108.43	3,142.95	382.64	308.85	73.79	5.186		
6,100.00	5,028.68	6,023.48	4,775.62	67.86	74.37	21.77	1,131.56	3,208.09	388.96	313.58	75.38	5.160		
6,200.00	5,104.65	6,123.28	4,847.60	69.27	75.92	21.84	1,154.69	3,273.24	395.28	318.30	76.98	5.135		
6,300.00	5,180.63	6,223.08	4,919.58	70.69	77.46	21.91	1,177.81	3,338.38	401.60	323.02	78.58	5.111		
6,400.00	5,256.61	6,322.88	4,991.56	72.10	79.00	21.97	1,200.94	3,403.53	407.92	327.74	80.18	5.088		
6,500.00	5,332.59	6,422.68	5,063.54	73.51	80.54	22.04	1,224.07	3,468.67	414.24	332.46	81.78	5.065		
6,600.00	5,408.56	6,522.47	5,135.52	74.92	82.08	22.10	1,247.20	3,533.82	420.56	337.18	83.38	5.044		
6,700.00	5,484.54	6,622.27	5,207.50	76.34	83.63	22.16	1,270.33	3,598.96	426.88	341.90	84.98	5.023		
6,800.00	5,560.52	6,722.07	5,279.48	77.75	85.17	22.22	1,293.46	3,664.10	433.21	346.62	86.59	5.003		
6,900.00	5,636.50	6,821.87	5,351.46	79.16	86.71	22.27	1,316.59	3,729.25	439.53	351.34	88.19	4.984		
7,000.00	5,712.47	6,921.67	5,423.44	80.57	88.25	22.33	1,339.71	3,794.39	445.85	356.05	89.80	4.965		
7,100.00	5,788.45	7,021.47	5,495.42	81.99	89.80	22.38	1,362.84	3,859.54	452.18	360.77	91.41	4.947		
7,200.00	5,864.43	7,121.27	5,567.40	83.40	91.34	22.43	1,385.97	3,924.68	458.50	365.48	93.02	4.929		
7,300.00	5,940.40	7,221.07	5,639.38	84.81	92.88	22.48	1,409.10	3,989.83	464.82	370.20	94.63	4.912		
7,400.00	6,016.38	7,320.87	5,711.36	86.23	94.43	22.53	1,432.23	4,054.97	471.15	374.91	96.24	4.896		
7,500.00	6,092.36	7,420.67	5,783.34	87.64	95.97	22.58	1,455.36	4,120.11	477.47	379.63	97.85	4.880		
7,600.00	6,168.34	7,520.46	5,855.32	89.05	97.51	22.63	1,478.48	4,185.26	483.80	384.34	99.46	4.864		
7,700.00	6,244.31	7,620.26	5,927.30	90.47	99.06	22.67	1,501.61	4,250.40	490.12	389.05	101.07	4.849		
7,800.00	6,320.29	7,720.06	5,999.28	91.88	100.60	22.71	1,524.74	4,315.55	496.45	393.76	102.69	4.835		
7,900.00	6,396.27	7,819.86	6,071.26	93.30	102.14	22.76	1,547.87	4,380.69	502.78	398.48	104.30	4.820		
8,000.00	6,472.25	7,919.66	6,143.24	94.71	103.69	22.80	1,571.00	4,445.84	509.10	403.19	105.92	4.807		
8,100.00	6,548.22	8,019.46	6,215.22	96.12	105.23	22.84	1,594.13	4,510.98	515.43	407.90	107.53	4.793		
8,200.00	6,624.20	8,119.26	6,287.20	97.54	106.77	22.88	1,617.25	4,576.13	521.76	412.61	109.15	4.780		
8,300.00	6,700.18	8,219.06	6,359.18	98.95	108.32	22.92	1,640.38	4,641.27	528.08	417.32	110.76	4.768		
8,400.00	6,776.16	8,318.86	6,431.16	100.37	109.86	22.96	1,663.51	4,706.41	534.41	422.03	112.38	4.755		
8,500.00	6,852.13	8,418.66	6,503.14	101.78	111.40	22.99	1,686.64	4,771.56	540.74	426.74	114.00	4.743		
8,600.00	6,928.11	8,518.45	6,575.12	103.20	112.95	23.03	1,709.77	4,836.70	547.07	431.45	115.62	4.732		
8,700.00	7,004.09	8,618.25	6,647.10	104.61	114.49	23.06	1,732.90	4,901.85	553.39	436.16	117.24	4.720		
8,800.00	7,080.06	8,718.05	6,719.08	106.02	116.04	23.10	1,756.03	4,966.99	559.72	440.86	118.86	4.709		
8,900.00	7,156.04	8,817.85	6,791.06	107.44	117.58	23.13	1,779.15	5,032.14	566.05	445.57	120.48	4.698		
9,000.00	7,232.02	8,917.65	6,863.04	108.85	119.12	23.17	1,802.28	5,097.28	572.38	450.28	122.10	4.688		
9,104.68	7,311.55	9,022.12	6,938.39	110.33	120.74	23.20	1,826.49	5,165.47	579.00	455.21	123.80	4.677		
9,150.00	7,346.29	9,067.32	6,970.99	110.97	121.44	18.07	1,836.97	5,194.98	581.68	457.55	124.14	4.686		
9,200.00	7,385.15	9,116.89	7,006.74	111.65	122.21	11.65	1,848.46	5,227.33	584.22	460.62	123.60	4.727		
9,250.00	7,424.29	9,165.78	7,042.00	112.31	122.96	4.61	1,859.79	5,259.25	586.43	464.28	122.14	4.801		
9,300.00	7,463.40	9,213.62	7,076.51	112.93	123.70	-2.78	1,870.87	5,290.48	588.51	468.67	119.84	4.911		
9,350.00	7,502.19	9,260.05	7,109.99	113.51	124.42	-10.27	1,881.63	5,320.78	590.75	473.92	116.83	5.057		
9,400.00	7,540.36	9,304.71	7,142.20	114.04	125.11	-17.61	1,891.98	5,349.93	593.51	480.19	113.32	5.238		
9,450.00	7,577.62	9,347.26	7,172.89	114.53	125.77	-24.60	1,901.84	5,377.71	597.18	487.56	109.62	5.448		
9,500.00	7,613.70	9,387.38	7,201.83	114.95	126.39	-31.05	1,911.14	5,403.90	602.20	496.07	106.13	5.674		
9,550.00	7,648.30	9,430.70	7,233.27	115.32	127.06	-37.13	1,919.94	5,432.35	608.86	505.30	103.56	5.879		
9,600.00	7,681.18	9,477.27	7,267.53	115.63	127.76	-42.72	1,925.81	5,463.34	617.05	514.73	102.32	6.030		
9,650.00	7,712.08	9,527.18	7,304.50	115.88	128.50	-47.83	1,927.93	5,496.77	626.69	524.36	102.33	6.124		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,700.00	7,740.76	9,581.28	7,344.58	116.08	129.26	-52.52	1,925.31	5,532.98	637.63	534.36	103.27	6.174		
9,750.00	7,767.01	9,640.65	7,388.14	116.23	130.04	-56.89	1,916.59	5,572.33	649.68	545.04	104.64	6.209		
9,800.00	7,790.63	9,706.72	7,435.55	116.33	130.84	-60.99	1,899.81	5,615.13	662.53	556.77	105.76	6.265		
9,850.00	7,811.44	9,781.30	7,486.94	116.38	131.60	-64.88	1,872.20	5,661.50	675.79	569.85	105.94	6.379		
9,900.00	7,829.28	9,866.55	7,541.87	116.38	132.33	-68.59	1,829.94	5,711.01	688.90	584.30	104.60	6.586		
9,950.00	7,844.01	9,964.80	7,598.61	116.35	132.94	-72.05	1,768.30	5,762.09	701.16	599.49	101.67	6.896		
10,000.00	7,855.52	10,077.83	7,653.15	116.28	133.36	-75.10	1,682.51	5,811.10	711.67	613.30	98.37	7.235		
10,050.00	7,863.72	10,205.58	7,698.43	116.18	133.53	-77.44	1,570.45	5,851.65	719.41	621.47	97.94	7.345		
10,100.00	7,868.56	10,344.47	7,725.51	116.06	133.38	-78.70	1,436.71	5,875.68	723.42	619.02	104.39	6.930		
10,145.94	7,870.00	10,444.56	7,730.00	115.92	133.14	-78.85	1,336.91	5,879.40	723.66	612.12	111.55	6.488		
10,200.00	7,870.00	10,501.38	7,730.00	115.76	132.98	-78.85	1,282.85	5,879.22	723.66	612.55	111.11	6.513		
10,300.00	7,870.00	10,601.38	7,730.00	115.46	132.72	-78.85	1,182.85	5,878.88	723.66	613.25	110.41	6.554		
10,400.00	7,870.00	10,701.38	7,730.00	115.18	132.46	-78.85	1,082.85	5,878.54	723.66	613.84	109.82	6.589		
10,500.00	7,870.00	10,801.38	7,730.00	114.91	132.22	-78.85	982.85	5,878.20	723.66	614.32	109.34	6.618		
10,600.00	7,870.00	10,901.38	7,730.00	114.65	131.99	-78.85	882.85	5,877.86	723.65	614.69	108.96	6.641		
10,700.00	7,870.00	11,001.38	7,730.00	114.41	131.76	-78.85	782.85	5,877.53	723.65	614.95	108.70	6.657		
10,800.00	7,870.00	11,101.38	7,730.00	114.17	131.55	-78.84	682.85	5,877.19	723.65	615.10	108.55	6.667		
10,900.00	7,870.00	11,201.38	7,730.00	113.95	131.35	-78.84	582.85	5,876.85	723.65	615.14	108.50	6.669		
11,000.00	7,870.00	11,301.38	7,730.00	113.75	131.16	-78.84	482.85	5,876.51	723.64	615.07	108.57	6.665		
11,100.00	7,870.00	11,401.38	7,730.00	113.55	130.98	-78.84	382.85	5,876.17	723.64	614.88	108.76	6.654		
11,200.00	7,870.00	11,501.38	7,730.00	113.37	130.81	-78.84	282.85	5,875.84	723.64	614.59	109.05	6.636		
11,300.00	7,870.00	11,601.38	7,730.00	113.20	130.65	-78.84	182.85	5,875.50	723.64	614.18	109.45	6.611		
11,400.00	7,870.00	11,701.38	7,730.00	113.04	130.51	-78.84	82.85	5,875.16	723.63	613.67	109.96	6.581		
11,500.00	7,870.00	11,801.38	7,730.00	112.89	130.37	-78.84	-17.14	5,874.82	723.63	613.05	110.58	6.544		
11,600.00	7,870.00	11,898.62	7,730.00	112.76	130.25	-78.84	-117.14	5,874.48	723.63	612.33	111.30	6.502		
11,700.00	7,870.00	12,001.38	7,730.00	112.64	130.13	-78.84	-217.14	5,874.14	723.63	611.49	112.14	6.453		
11,800.00	7,870.00	12,101.38	7,730.00	112.53	130.02	-78.84	-317.14	5,873.81	723.63	610.56	113.06	6.400		
11,900.00	7,870.00	12,201.38	7,730.00	112.44	129.93	-78.84	-417.14	5,873.47	723.62	609.53	114.09	6.342		
12,000.00	7,870.00	12,301.38	7,730.00	112.36	129.84	-78.84	-517.14	5,873.13	723.62	608.40	115.22	6.281		
12,100.00	7,870.00	12,398.62	7,730.00	112.29	129.77	-78.84	-617.14	5,872.79	723.62	607.20	116.42	6.216		
12,200.00	7,870.00	12,501.38	7,730.00	112.24	129.71	-78.84	-717.14	5,872.45	723.62	605.87	117.74	6.146		
12,300.00	7,870.00	12,601.38	7,730.00	112.20	129.66	-78.84	-817.14	5,872.12	723.61	604.48	119.14	6.074		
12,400.00	7,870.00	12,701.38	7,730.00	112.17	129.63	-78.84	-917.14	5,871.78	723.61	602.99	120.62	5.999		
12,500.00	7,870.00	12,801.38	7,730.00	112.16	129.60	-78.84	-1,017.14	5,871.44	723.61	601.43	122.18	5.923		
12,600.00	7,870.00	12,901.38	7,730.00	112.17	129.59	-78.84	-1,117.14	5,871.10	723.61	599.79	123.82	5.844		
12,700.00	7,870.00	13,001.38	7,730.00	112.19	129.59	-78.84	-1,217.14	5,870.76	723.60	598.07	125.53	5.764		
12,800.00	7,870.00	13,101.38	7,730.00	112.23	129.60	-78.84	-1,317.14	5,870.43	723.60	596.28	127.32	5.683		
12,900.00	7,870.00	13,198.62	7,730.00	112.28	129.62	-78.84	-1,417.14	5,870.09	723.60	594.45	129.15	5.603		
13,000.00	7,870.00	13,301.38	7,730.00	112.36	129.66	-78.84	-1,517.14	5,869.75	723.60	592.50	131.10	5.520		
13,100.00	7,870.00	13,398.62	7,730.00	112.45	129.71	-78.84	-1,617.14	5,869.41	723.59	590.54	133.05	5.438		
13,200.00	7,870.00	13,501.38	7,730.00	112.56	129.78	-78.84	-1,717.13	5,869.07	723.59	588.47	135.13	5.355		
13,300.00	7,870.00	13,601.38	7,730.00	112.68	129.86	-78.84	-1,817.13	5,868.74	723.59	586.36	137.23	5.273		
13,400.00	7,870.00	13,701.38	7,730.00	112.83	129.96	-78.84	-1,917.13	5,868.40	723.59	584.20	139.39	5.191		
13,500.00	7,870.00	13,801.38	7,730.00	113.00	130.07	-78.84	-2,017.13	5,868.06	723.59	581.99	141.60	5.110		
13,600.00	7,870.00	13,901.38	7,730.00	113.19	130.19	-78.84	-2,117.13	5,867.72	723.58	579.72	143.86	5.030		
13,700.00	7,870.00	14,001.38	7,730.00	113.40	130.34	-78.84	-2,217.13	5,867.38	723.58	577.41	146.17	4.950		
13,800.00	7,870.00	14,101.38	7,730.00	113.63	130.49	-78.84	-2,317.13	5,867.05	723.58	575.05	148.53	4.872		
13,900.00	7,870.00	14,201.38	7,730.00	113.89	130.67	-78.84	-2,417.13	5,866.71	723.58	572.65	150.93	4.794		
14,000.00	7,870.00	14,301.38	7,730.00	114.18	130.86	-78.84	-2,517.13	5,866.37	723.57	570.21	153.37	4.718		
14,100.00	7,870.00	14,401.38	7,730.00	114.48	131.07	-78.84	-2,617.13	5,866.03	723.57	567.73	155.85	4.643		
14,200.00	7,870.00	14,501.38	7,730.00	114.82	131.30	-78.84	-2,717.13	5,865.69	723.57	565.21	158.36	4.569		
14,300.00	7,870.00	14,601.38	7,730.00	115.18	131.55	-78.84	-2,817.13	5,865.36	723.57	562.65	160.92	4.497		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,400.00	7,870.00	14,701.38	7,730.00	115.57	131.82	-78.84	-2,917.13	5,865.02	723.56	560.06	163.50	4.425		
14,500.00	7,870.00	14,798.62	7,730.00	115.99	132.10	-78.84	-3,017.13	5,864.68	723.56	557.47	166.09	4.356		
14,600.00	7,870.00	14,901.38	7,730.00	116.44	132.42	-78.84	-3,117.13	5,864.34	723.56	554.78	168.78	4.287		
14,700.00	7,870.00	15,001.38	7,730.00	116.92	132.76	-78.84	-3,217.13	5,864.00	723.56	552.10	171.46	4.220		
14,800.00	7,870.00	15,101.38	7,730.00	117.44	133.11	-78.84	-3,317.13	5,863.67	723.56	549.39	174.17	4.154		
14,900.00	7,870.00	15,201.38	7,730.00	117.98	133.49	-78.84	-3,417.13	5,863.33	723.55	546.65	176.90	4.090		
15,000.00	7,870.00	15,301.38	7,730.00	118.56	133.89	-78.84	-3,517.12	5,862.99	723.55	543.88	179.67	4.027		
15,100.00	7,870.00	15,401.38	7,730.00	119.17	134.31	-78.84	-3,617.12	5,862.65	723.55	541.10	182.45	3.966		
15,200.00	7,870.00	15,501.38	7,730.00	119.81	134.76	-78.84	-3,717.12	5,862.31	723.55	538.28	185.26	3.905		
15,300.00	7,870.00	15,601.38	7,730.00	120.48	135.24	-78.84	-3,817.12	5,861.98	723.54	535.45	188.10	3.847		
15,400.00	7,870.00	15,701.38	7,730.00	121.19	135.74	-78.84	-3,917.12	5,861.64	723.54	532.59	190.95	3.789		
15,500.00	7,870.00	15,801.38	7,730.00	121.93	136.27	-78.84	-4,017.12	5,861.30	723.54	529.71	193.83	3.733		
15,600.00	7,870.00	15,901.38	7,730.00	122.71	136.82	-78.84	-4,117.12	5,860.96	723.54	526.82	196.72	3.678		
15,700.00	7,870.00	16,001.38	7,730.00	123.52	137.40	-78.84	-4,217.12	5,860.62	723.53	523.90	199.63	3.624		
15,800.00	7,870.00	16,101.38	7,730.00	124.36	138.01	-78.84	-4,317.12	5,860.29	723.53	520.97	202.56	3.572		
15,900.00	7,870.00	16,201.38	7,730.00	125.23	138.64	-78.84	-4,417.12	5,859.95	723.53	518.02	205.51	3.521		
16,000.00	7,870.00	16,301.38	7,730.00	126.14	139.30	-78.84	-4,517.12	5,859.61	723.53	515.05	208.48	3.471		
16,100.00	7,870.00	16,401.38	7,730.00	127.07	140.00	-78.84	-4,617.12	5,859.27	723.52	512.07	211.46	3.422		
16,200.00	7,870.00	16,501.38	7,730.00	128.04	140.71	-78.84	-4,717.12	5,858.93	723.52	509.07	214.45	3.374		
16,300.00	7,870.00	16,601.38	7,730.00	129.04	141.46	-78.84	-4,817.12	5,858.60	723.52	506.06	217.46	3.327		
16,400.00	7,870.00	16,701.38	7,730.00	130.06	142.24	-78.84	-4,917.12	5,858.26	723.52	503.03	220.49	3.281		
16,500.00	7,870.00	16,801.38	7,730.00	131.11	143.04	-78.84	-5,017.12	5,857.92	723.52	499.99	223.52	3.237		
16,600.00	7,870.00	16,901.38	7,730.00	132.19	143.87	-78.84	-5,117.12	5,857.58	723.51	496.94	226.57	3.193		
16,700.00	7,870.00	17,001.38	7,730.00	133.29	144.72	-78.84	-5,217.11	5,857.24	723.51	493.87	229.64	3.151		
16,800.00	7,870.00	17,101.38	7,730.00	134.42	145.61	-78.84	-5,317.11	5,856.91	723.51	490.80	232.71	3.109		
16,900.00	7,870.00	17,201.38	7,730.00	135.57	146.52	-78.84	-5,417.11	5,856.57	723.51	487.71	235.80	3.068		
17,000.00	7,870.00	17,301.38	7,730.00	136.75	147.46	-78.84	-5,517.11	5,856.23	723.50	484.61	238.89	3.029		
17,100.00	7,870.00	17,401.38	7,730.00	137.94	148.42	-78.84	-5,617.11	5,855.89	723.50	481.50	242.00	2.990		
17,200.00	7,870.00	17,501.38	7,730.00	139.16	149.40	-78.84	-5,717.11	5,855.55	723.50	478.38	245.12	2.952		
17,300.00	7,870.00	17,601.38	7,730.00	140.39	150.42	-78.84	-5,817.11	5,855.22	723.50	475.26	248.24	2.914		
17,400.00	7,870.00	17,701.38	7,730.00	141.65	151.45	-78.84	-5,917.11	5,854.88	723.49	472.12	251.38	2.878		
17,500.00	7,870.00	17,801.38	7,730.00	142.92	152.51	-78.84	-6,017.11	5,854.54	723.49	468.97	254.52	2.843		
17,600.00	7,870.00	17,898.62	7,730.00	144.21	153.56	-78.84	-6,117.11	5,854.20	723.49	465.86	257.63	2.808		
17,700.00	7,870.00	18,001.38	7,730.00	145.52	154.69	-78.84	-6,217.11	5,853.86	723.49	462.65	260.84	2.774		
17,800.00	7,870.00	18,101.38	7,730.00	146.84	155.82	-78.84	-6,317.11	5,853.53	723.49	459.48	264.01	2.740		
17,900.00	7,870.00	18,201.38	7,730.00	148.18	156.96	-78.84	-6,417.11	5,853.19	723.48	456.30	267.18	2.708		
18,000.00	7,870.00	18,301.38	7,730.00	149.54	158.13	-78.84	-6,517.11	5,852.85	723.48	453.11	270.37	2.676		
18,100.00	7,870.00	18,401.38	7,730.00	150.90	159.31	-78.84	-6,617.11	5,852.51	723.48	449.92	273.56	2.645		
18,200.00	7,870.00	18,501.38	7,730.00	152.28	160.51	-78.84	-6,717.11	5,852.17	723.48	446.71	276.76	2.614		
18,300.00	7,870.00	18,601.38	7,730.00	153.67	161.74	-78.84	-6,817.11	5,851.84	723.47	443.51	279.97	2.584		
18,400.00	7,870.00	18,701.38	7,730.00	155.07	162.97	-78.84	-6,917.11	5,851.50	723.47	440.29	283.18	2.555		
18,500.00	7,870.00	18,801.38	7,730.00	156.49	164.23	-78.84	-7,017.10	5,851.16	723.47	437.07	286.40	2.526		
18,600.00	7,870.00	18,901.38	7,730.00	157.91	165.50	-78.84	-7,117.10	5,850.82	723.47	433.84	289.62	2.498		
18,700.00	7,870.00	19,001.38	7,730.00	159.35	166.78	-78.84	-7,217.10	5,850.48	723.46	430.61	292.85	2.470		
18,800.00	7,870.00	19,101.38	7,730.00	160.79	168.08	-78.84	-7,317.10	5,850.15	723.46	427.37	296.09	2.443		
18,900.00	7,870.00	19,201.38	7,730.00	162.25	169.39	-78.84	-7,417.10	5,849.81	723.46	424.13	299.33	2.417		
19,000.00	7,870.00	19,301.38	7,730.00	163.71	170.72	-78.84	-7,517.10	5,849.47	723.46	420.88	302.58	2.391		
19,100.00	7,870.00	19,401.38	7,730.00	165.18	172.06	-78.84	-7,617.10	5,849.13	723.46	417.62	305.83	2.366		
19,200.00	7,870.00	19,501.38	7,730.00	166.66	173.42	-78.84	-7,717.10	5,848.79	723.45	414.36	309.09	2.341		
19,300.00	7,870.00	19,601.38	7,730.00	168.15	174.78	-78.84	-7,817.10	5,848.45	723.45	411.10	312.35	2.316		
19,400.00	7,870.00	19,701.38	7,730.00	169.65	176.16	-78.84	-7,917.10	5,848.12	723.45	407.83	315.62	2.292		
19,500.00	7,870.00	19,801.38	7,730.00	171.15	177.54	-78.84	-8,017.10	5,847.78	723.45	404.56	318.89	2.269		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,600.00	7,870.00	19,901.38	7,730.00	172.66	178.94	-78.84	-8,117.10	5,847.44	723.44	401.28	322.17	2.246	
19,700.00	7,870.00	20,001.38	7,730.00	174.18	180.35	-78.84	-8,217.10	5,847.10	723.44	398.00	325.45	2.223	
19,800.00	7,870.00	20,101.38	7,730.00	175.70	181.77	-78.84	-8,317.10	5,846.76	723.44	394.71	328.73	2.201	
19,889.26	7,870.00	20,187.87	7,730.00	177.06	183.00	-78.84	-8,406.35	5,846.46	723.44	391.82	331.62	2.182 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	-89.62	0.73	-110.32	110.32					
100.00	100.00	102.00	102.00	0.13	0.14	-89.62	0.73	-110.32	110.32	110.05	0.28	399.689		
200.00	200.00	202.00	202.00	0.49	0.50	-89.62	0.73	-110.32	110.32	109.33	0.99	111.105		
300.00	300.00	302.00	302.00	0.85	0.86	-89.62	0.73	-110.32	110.32	108.61	1.71	64.520 CC, ES		
400.00	399.98	401.98	401.98	1.21	1.22	-158.09	0.73	-110.32	111.94	109.52	2.42	46.204		
500.00	499.84	501.84	501.84	1.56	1.57	-159.02	0.73	-110.32	116.81	113.68	3.14	37.231		
600.00	599.45	601.45	601.45	1.93	1.93	-160.39	0.73	-110.32	124.99	121.14	3.86	32.414		
700.00	698.70	700.70	700.70	2.32	2.29	-162.03	0.73	-110.32	136.54	131.96	4.58	29.830		
800.00	797.47	800.53	799.47	2.72	2.65	-163.77	0.73	-110.32	151.51	146.20	5.30	28.565		
900.00	895.62	902.38	897.62	3.16	3.01	-165.48	0.73	-110.32	169.93	163.89	6.04	28.128		
1,000.00	993.06	1,004.94	995.06	3.63	3.38	-167.06	0.73	-110.32	191.82	185.03	6.78	28.273		
1,100.00	1,089.64	1,108.36	1,091.64	4.14	3.75	-168.48	0.73	-110.32	217.15	209.61	7.53	28.823		
1,200.00	1,185.27	1,187.27	1,187.27	4.70	4.03	-169.73	0.73	-110.32	245.90	237.70	8.20	29.991		
1,300.00	1,279.82	1,281.82	1,281.82	5.31	4.37	-170.82	0.73	-110.32	278.04	269.12	8.92	31.157		
1,400.00	1,373.17	1,375.17	1,375.17	5.97	4.71	-171.76	0.73	-110.32	313.52	303.87	9.65	32.497		
1,500.00	1,465.21	1,474.50	1,474.49	6.69	5.06	-172.52	1.49	-109.73	351.58	341.18	10.40	33.792		
1,600.00	1,555.84	1,577.27	1,577.16	7.47	5.43	-172.88	5.06	-106.96	390.35	379.17	11.18	34.911		
1,700.00	1,644.94	1,681.12	1,680.67	8.31	5.80	-172.91	11.62	-101.87	429.66	417.69	11.97	35.893		
1,800.00	1,732.39	1,786.04	1,784.87	9.23	6.18	-172.67	21.25	-94.40	469.47	456.70	12.77	36.752		
1,900.00	1,818.11	1,892.01	1,889.59	10.21	6.57	-172.23	34.03	-84.49	509.76	496.17	13.60	37.496		
2,000.00	1,901.97	1,999.01	1,994.65	11.26	6.98	-171.61	50.03	-72.07	550.53	536.09	14.44	38.127		
2,100.00	1,983.88	2,107.02	2,099.87	12.38	7.42	-170.85	69.31	-57.11	591.76	576.44	15.31	38.645		
2,200.00	2,063.74	2,216.04	2,205.05	13.57	7.90	-169.98	91.94	-39.56	633.46	617.23	16.22	39.047		
2,300.00	2,141.45	2,326.03	2,309.99	14.84	8.41	-169.01	117.95	-19.37	675.63	658.45	17.18	39.329		
2,327.78	2,162.65	2,356.76	2,339.08	15.21	8.56	-168.72	125.79	-13.29	687.44	669.98	17.46	39.379		
2,400.00	2,217.51	2,437.42	2,414.89	16.17	8.97	-168.06	147.52	3.57	717.48	699.29	18.19	39.439		
2,500.00	2,293.49	2,551.22	2,520.49	17.51	9.60	-167.04	181.04	29.58	756.81	737.53	19.28	39.256		
2,600.00	2,369.47	2,667.23	2,626.30	18.86	10.29	-165.88	218.58	58.71	793.50	773.04	20.45	38.794		
2,700.00	2,445.45	2,758.51	2,708.89	20.22	10.88	-164.98	249.30	82.54	829.11	807.53	21.58	38.412		
2,800.00	2,521.42	2,851.15	2,792.71	21.59	11.49	-164.14	280.48	106.73	864.90	842.15	22.75	38.010		
2,900.00	2,597.40	2,943.79	2,876.52	22.97	12.12	-163.37	311.66	130.92	900.84	876.88	23.96	37.604		
3,000.00	2,673.38	3,036.44	2,960.34	24.34	12.76	-162.65	342.84	155.12	936.91	911.72	25.19	37.199		
3,100.00	2,749.36	3,129.08	3,044.16	25.73	13.41	-161.99	374.02	179.31	973.10	946.66	26.44	36.801		
3,200.00	2,825.33	3,221.72	3,127.98	27.11	14.08	-161.37	405.20	203.50	1,009.40	981.68	27.72	36.411		
3,300.00	2,901.31	3,314.37	3,211.79	28.50	14.75	-160.80	436.38	227.69	1,045.79	1,016.77	29.02	36.034		
3,400.00	2,977.29	3,407.01	3,295.61	29.90	15.43	-160.27	467.56	251.88	1,082.27	1,051.93	30.34	35.669		
3,500.00	3,053.27	3,500.35	3,379.43	31.29	16.12	-159.77	498.75	276.08	1,118.83	1,087.14	31.68	35.313		
3,600.00	3,129.24	3,607.70	3,463.24	32.69	16.93	-159.30	529.93	300.27	1,155.45	1,122.32	33.13	34.879		
3,700.00	3,205.22	3,684.94	3,547.06	34.08	17.51	-158.86	561.11	324.46	1,192.14	1,157.74	34.40	34.657		
3,800.00	3,281.20	3,777.58	3,630.88	35.48	18.21	-158.44	592.29	348.65	1,228.89	1,193.11	35.78	34.348		
3,900.00	3,357.18	3,870.23	3,714.69	36.88	18.92	-158.05	623.47	372.85	1,265.69	1,228.52	37.17	34.052		
4,000.00	3,433.15	3,962.87	3,798.51	38.29	19.63	-157.68	654.65	397.04	1,302.54	1,263.97	38.57	33.770		
4,100.00	3,509.13	4,055.51	3,882.33	39.69	20.35	-157.33	685.83	421.23	1,339.43	1,299.45	39.98	33.501		
4,200.00	3,585.11	4,148.16	3,966.14	41.09	21.07	-157.00	717.01	445.42	1,376.36	1,334.96	41.40	33.244		
4,300.00	3,661.08	4,240.80	4,049.96	42.50	21.79	-156.69	748.19	469.62	1,413.34	1,370.51	42.83	32.999		
4,400.00	3,737.06	4,333.44	4,133.78	43.90	22.51	-156.39	779.37	493.81	1,450.34	1,406.08	44.27	32.765		
4,500.00	3,813.04	4,426.09	4,217.59	45.31	23.23	-156.11	810.55	518.00	1,487.38	1,441.67	45.71	32.541		
4,600.00	3,889.02	4,518.73	4,301.41	46.71	23.96	-155.84	841.73	542.19	1,524.45	1,477.29	47.16	32.327		
4,700.00	3,964.99	4,611.37	4,385.23	48.12	24.69	-155.59	872.91	566.38	1,561.54	1,512.93	48.61	32.123		
4,800.00	4,040.97	4,704.02	4,469.04	49.53	25.42	-155.34	904.09	590.58	1,598.66	1,548.59	50.07	31.928		
4,900.00	4,116.95	4,803.34	4,552.86	50.94	26.20	-155.11	935.28	614.77	1,635.81	1,584.23	51.58	31.713		
5,000.00	4,192.93	4,889.30	4,636.68	52.35	26.88	-154.89	966.46	638.96	1,672.98	1,619.97	53.01	31.562		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,268.90	4,981.95	4,720.50	53.76	27.62	-154.67	997.64	663.15	1,710.17	1,655.69	54.48	31.391		
5,200.00	4,344.88	5,074.59	4,804.31	55.16	28.35	-154.47	1,028.82	687.35	1,747.37	1,691.42	55.96	31.227		
5,300.00	4,420.86	5,167.23	4,888.13	56.57	29.09	-154.27	1,060.00	711.54	1,784.60	1,727.16	57.44	31.069		
5,400.00	4,496.84	5,259.88	4,971.95	57.98	29.83	-154.09	1,091.18	735.73	1,821.84	1,762.92	58.92	30.918		
5,500.00	4,572.81	5,352.52	5,055.76	59.39	30.56	-153.91	1,122.36	759.92	1,859.10	1,798.69	60.41	30.773		
5,600.00	4,648.79	5,445.16	5,139.58	60.81	31.30	-153.73	1,153.54	784.12	1,896.38	1,834.48	61.90	30.634		
5,700.00	4,724.77	5,537.81	5,223.40	62.22	32.04	-153.57	1,184.72	808.31	1,933.67	1,870.27	63.40	30.500		
5,800.00	4,800.74	5,630.45	5,307.21	63.63	32.78	-153.41	1,215.90	832.50	1,970.97	1,906.08	64.90	30.371		
5,900.00	4,876.72	5,723.09	5,391.03	65.04	33.53	-153.25	1,247.08	856.69	2,008.29	1,941.89	66.40	30.247		
6,000.00	4,952.70	5,815.74	5,474.85	66.45	34.27	-153.10	1,278.26	880.89	2,045.62	1,977.72	67.90	30.128		
6,100.00	5,028.68	5,908.38	5,558.66	67.86	35.01	-152.96	1,309.44	905.08	2,082.96	2,013.55	69.40	30.013		
6,200.00	5,104.65	6,001.02	5,642.48	69.27	35.75	-152.82	1,340.62	929.27	2,120.31	2,049.40	70.91	29.902		
6,300.00	5,180.63	6,106.34	5,726.30	70.69	36.60	-152.69	1,371.81	953.46	2,157.67	2,085.16	72.51	29.758		
6,400.00	5,256.61	6,186.31	5,810.11	72.10	37.24	-152.56	1,402.99	977.65	2,195.04	2,121.11	73.93	29.692		
6,500.00	5,332.59	6,278.95	5,893.93	73.51	37.99	-152.44	1,434.17	1,001.85	2,232.42	2,156.98	75.44	29.592		
6,600.00	5,408.56	6,371.59	5,977.75	74.92	38.73	-152.31	1,465.35	1,026.04	2,269.81	2,192.85	76.95	29.496		
6,700.00	5,484.54	6,464.24	6,061.57	76.34	39.48	-152.20	1,496.53	1,050.23	2,307.20	2,228.73	78.47	29.402		
6,800.00	5,560.52	6,556.88	6,145.38	77.75	40.22	-152.08	1,527.71	1,074.42	2,344.61	2,264.62	79.99	29.312		
6,900.00	5,636.50	6,649.52	6,229.20	79.16	40.97	-151.98	1,558.89	1,098.62	2,382.02	2,300.51	81.51	29.225		
7,000.00	5,712.47	6,742.17	6,313.02	80.57	41.72	-151.87	1,590.07	1,122.81	2,419.44	2,336.41	83.03	29.141		
7,100.00	5,788.45	6,834.81	6,396.83	81.99	42.47	-151.77	1,621.25	1,147.00	2,456.87	2,372.32	84.55	29.059		
7,200.00	5,864.43	6,927.45	6,480.65	83.40	43.21	-151.67	1,652.43	1,171.19	2,494.30	2,408.23	86.07	28.980		
7,300.00	5,940.40	7,020.10	6,564.47	84.81	43.96	-151.57	1,683.61	1,195.39	2,531.74	2,444.15	87.59	28.903		
7,400.00	6,016.38	7,112.74	6,648.28	86.23	44.71	-151.48	1,714.79	1,219.58	2,569.19	2,480.07	89.12	28.829		
7,500.00	6,092.36	7,205.38	6,732.10	87.64	45.46	-151.39	1,745.97	1,243.77	2,606.64	2,515.99	90.64	28.757		
7,600.00	6,168.34	7,301.97	6,815.92	89.05	46.24	-151.30	1,777.15	1,267.96	2,644.09	2,551.89	92.20	28.678		
7,700.00	6,244.31	7,396.32	6,904.89	90.47	47.00	-151.21	1,810.11	1,293.64	2,681.55	2,587.77	93.77	28.596		
7,800.00	6,320.29	7,563.19	7,062.21	91.88	48.05	-151.68	1,839.19	1,338.95	2,717.53	2,622.22	95.31	28.512		
7,900.00	6,396.27	7,710.11	7,202.37	93.30	48.49	-152.93	1,824.84	1,379.18	2,751.50	2,656.30	95.20	28.904		
8,000.00	6,472.25	7,825.83	7,307.54	94.71	48.55	-154.39	1,787.71	1,409.28	2,784.75	2,690.47	94.29	29.535		
8,100.00	6,548.22	7,912.71	7,380.62	96.12	48.45	-155.72	1,745.79	1,430.14	2,818.59	2,725.35	93.24	30.229		
8,200.00	6,624.20	7,977.56	7,430.75	97.54	48.30	-156.82	1,707.26	1,444.41	2,853.89	2,761.59	92.30	30.920		
8,300.00	6,700.18	8,026.66	7,465.75	98.95	48.15	-157.71	1,674.32	1,454.36	2,891.16	2,799.65	91.51	31.595		
8,400.00	6,776.16	8,064.61	7,490.87	100.37	48.01	-158.43	1,646.79	1,461.48	2,930.68	2,839.84	90.83	32.265		
8,500.00	6,852.13	8,094.57	7,509.43	101.78	47.89	-159.00	1,623.86	1,466.74	2,972.56	2,882.32	90.24	32.941		
8,600.00	6,928.11	8,118.71	7,523.53	103.20	47.79	-159.48	1,604.69	1,470.73	3,016.85	2,927.15	89.70	33.633		
8,700.00	7,004.09	8,138.51	7,534.51	104.61	47.70	-159.87	1,588.51	1,473.83	3,063.52	2,974.33	89.19	34.348		
8,800.00	7,080.06	8,150.00	7,540.64	106.02	47.65	-160.10	1,578.94	1,475.56	3,112.53	3,023.73	88.81	35.047		
8,900.00	7,156.04	8,168.93	7,550.32	107.44	47.56	-160.48	1,562.90	1,478.28	3,163.81	3,075.59	88.21	35.865		
9,000.00	7,232.02	8,180.84	7,556.14	108.85	47.50	-160.73	1,552.65	1,479.92	3,217.27	3,129.54	87.73	36.672		
9,104.68	7,311.55	8,200.00	7,565.09	110.33	47.40	-161.12	1,535.89	1,482.44	3,275.52	3,188.48	87.04	37.633		
9,150.00	7,346.29	8,200.00	7,565.09	110.97	47.40	-169.51	1,535.89	1,482.44	3,301.41	3,214.49	86.92	37.981		
9,200.00	7,385.15	8,200.00	7,565.09	111.65	47.40	-179.16	1,535.89	1,482.44	3,330.38	3,243.55	86.83	38.357		
9,250.00	7,424.29	8,200.00	7,565.09	112.31	47.40	171.00	1,535.89	1,482.44	3,359.53	3,272.77	86.76	38.724		
9,300.00	7,463.40	8,219.94	7,573.82	112.93	47.30	160.89	1,518.14	1,484.89	3,388.50	3,302.21	86.29	39.270		
9,350.00	7,502.19	8,229.80	7,577.92	113.51	47.25	151.28	1,509.24	1,486.03	3,417.18	3,331.12	86.07	39.705		
9,400.00	7,540.36	8,250.00	7,585.85	114.04	47.14	142.07	1,490.79	1,488.25	3,445.33	3,359.68	85.64	40.228		
9,450.00	7,577.62	8,250.00	7,585.85	114.53	47.14	133.81	1,490.79	1,488.25	3,472.61	3,386.91	85.70	40.522		
9,500.00	7,613.70	8,250.00	7,585.85	114.95	47.14	126.29	1,490.79	1,488.25	3,499.00	3,413.22	85.78	40.789		
9,550.00	7,648.30	8,276.75	7,595.38	115.32	46.99	119.29	1,465.94	1,490.91	3,524.02	3,438.72	85.31	41.309		
9,600.00	7,681.18	8,300.00	7,602.75	115.63	46.86	113.14	1,443.99	1,492.95	3,547.78	3,462.83	84.94	41.767		
9,650.00	7,712.08	8,300.00	7,602.75	115.88	46.86	107.94	1,443.99	1,492.95	3,569.88	3,484.74	85.14	41.930		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,700.00	7,740.76	8,317.76	7,607.80	116.08	46.76	103.30	1,427.02	1,494.34	3,590.29	3,505.32	84.97	42.252		
9,750.00	7,767.01	8,332.22	7,611.54	116.23	46.68	99.35	1,413.09	1,495.37	3,608.83	3,523.91	84.93	42.494		
9,800.00	7,790.63	8,350.00	7,615.67	116.33	46.58	95.98	1,395.83	1,496.50	3,625.38	3,540.54	84.84	42.731		
9,850.00	7,811.44	8,350.00	7,615.67	116.38	46.58	93.23	1,395.83	1,496.50	3,639.86	3,554.63	85.23	42.706		
9,900.00	7,829.28	8,377.25	7,621.00	116.38	46.42	90.91	1,369.15	1,497.94	3,652.01	3,566.99	85.01	42.957		
9,950.00	7,844.01	8,400.00	7,624.51	116.35	46.28	89.09	1,346.69	1,498.87	3,661.95	3,577.00	84.95	43.107		
10,000.00	7,855.52	8,400.00	7,624.51	116.28	46.28	87.76	1,346.69	1,498.87	3,669.50	3,584.00	85.50	42.917		
10,050.00	7,863.72	8,423.86	7,627.26	116.18	46.14	86.83	1,323.01	1,499.58	3,674.62	3,589.11	85.51	42.973		
10,100.00	7,868.56	8,450.00	7,629.19	116.06	45.98	86.32	1,296.94	1,500.05	3,677.36	3,591.86	85.50	43.009		
10,145.94	7,870.00	8,450.00	7,629.19	115.92	45.98	86.21	1,296.94	1,500.05	3,677.63	3,591.47	86.16	42.685		
10,200.00	7,870.00	8,471.01	7,629.92	115.76	45.85	86.23	1,275.95	1,500.19	3,677.03	3,590.62	86.41	42.552		
10,232.80	7,870.00	8,482.08	7,630.00	115.66	45.79	86.23	1,264.87	1,500.17	3,676.94	3,590.32	86.62	42.450		
10,300.00	7,870.00	8,549.29	7,630.00	115.46	45.39	86.23	1,197.67	1,499.95	3,676.94	3,591.05	85.89	42.812		
10,400.00	7,870.00	8,649.29	7,630.00	115.18	44.84	86.23	1,097.67	1,499.61	3,676.94	3,592.04	84.90	43.307		
10,500.00	7,870.00	8,749.29	7,630.00	114.91	44.31	86.23	997.67	1,499.27	3,676.95	3,592.88	84.06	43.742		
10,600.00	7,870.00	8,849.29	7,630.00	114.65	43.81	86.23	897.67	1,498.93	3,676.95	3,593.59	83.36	44.109		
10,700.00	7,870.00	8,949.29	7,630.00	114.41	43.35	86.23	797.67	1,498.59	3,676.95	3,594.14	82.81	44.403		
10,800.00	7,870.00	9,049.29	7,630.00	114.17	42.91	86.23	697.67	1,498.25	3,676.95	3,594.55	82.41	44.620		
10,900.00	7,870.00	9,149.29	7,630.00	113.95	42.50	86.23	597.67	1,497.92	3,676.96	3,594.80	82.16	44.756		
11,000.00	7,870.00	9,249.29	7,630.00	113.75	42.12	86.23	497.67	1,497.58	3,676.96	3,594.90	82.06	44.809		
11,100.00	7,870.00	9,349.29	7,630.00	113.55	41.76	86.23	397.67	1,497.24	3,676.96	3,594.85	82.12	44.778		
11,200.00	7,870.00	9,449.29	7,630.00	113.37	41.43	86.23	297.67	1,496.90	3,676.97	3,594.64	82.33	44.664		
11,300.00	7,870.00	9,549.29	7,630.00	113.20	41.11	86.23	197.68	1,496.56	3,676.97	3,594.28	82.69	44.469		
11,400.00	7,870.00	9,649.29	7,630.00	113.04	40.82	86.23	97.68	1,496.22	3,676.97	3,593.77	83.20	44.196		
11,500.00	7,870.00	9,749.29	7,630.00	112.89	40.54	86.23	-2.32	1,495.88	3,676.97	3,593.12	83.86	43.849		
11,600.00	7,870.00	9,849.29	7,630.00	112.76	40.29	86.23	-102.32	1,495.55	3,676.98	3,592.32	84.66	43.435		
11,700.00	7,870.00	9,949.29	7,630.00	112.64	40.05	86.23	-202.32	1,495.21	3,676.98	3,591.39	85.59	42.958		
11,800.00	7,870.00	10,049.29	7,630.00	112.53	39.83	86.23	-302.32	1,494.87	3,676.98	3,590.32	86.67	42.427		
11,900.00	7,870.00	10,149.29	7,630.00	112.44	40.43	86.23	-402.32	1,494.53	3,676.99	3,589.12	87.87	41.847		
12,000.00	7,870.00	10,249.29	7,630.00	112.36	41.42	86.23	-502.32	1,494.19	3,676.99	3,587.80	89.19	41.226		
12,100.00	7,870.00	10,349.29	7,630.00	112.29	42.45	86.23	-602.32	1,493.85	3,676.99	3,586.36	90.63	40.570		
12,200.00	7,870.00	10,449.29	7,630.00	112.24	43.51	86.23	-702.32	1,493.51	3,676.99	3,584.81	92.19	39.886		
12,300.00	7,870.00	10,549.29	7,630.00	112.20	44.61	86.23	-802.32	1,493.18	3,677.00	3,583.15	93.85	39.181		
12,400.00	7,870.00	10,649.29	7,630.00	112.17	45.74	86.23	-902.32	1,492.84	3,677.00	3,581.39	95.61	38.460		
12,500.00	7,870.00	10,749.29	7,630.00	112.16	46.90	86.23	-1,002.32	1,492.50	3,677.00	3,579.54	97.46	37.728		
12,600.00	7,870.00	10,849.29	7,630.00	112.17	48.09	86.23	-1,102.32	1,492.16	3,677.01	3,577.60	99.41	36.989		
12,700.00	7,870.00	10,949.29	7,630.00	112.19	49.31	86.23	-1,202.32	1,491.82	3,677.01	3,575.57	101.44	36.249		
12,800.00	7,870.00	11,049.29	7,630.00	112.23	50.56	86.23	-1,302.32	1,491.48	3,677.01	3,573.47	103.55	35.511		
12,900.00	7,870.00	11,149.29	7,630.00	112.28	51.83	86.23	-1,402.32	1,491.14	3,677.01	3,571.28	105.73	34.777		
13,000.00	7,870.00	11,249.29	7,630.00	112.36	53.12	86.23	-1,502.31	1,490.81	3,677.02	3,569.03	107.98	34.051		
13,100.00	7,870.00	11,349.29	7,630.00	112.45	54.44	86.23	-1,602.31	1,490.47	3,677.02	3,566.72	110.31	33.335		
13,200.00	7,870.00	11,449.29	7,630.00	112.56	55.78	86.23	-1,702.31	1,490.13	3,677.02	3,564.34	112.69	32.630		
13,300.00	7,870.00	11,549.29	7,630.00	112.68	57.14	86.23	-1,802.31	1,489.79	3,677.03	3,561.90	115.13	31.939		
13,400.00	7,870.00	11,649.29	7,630.00	112.83	58.52	86.23	-1,902.31	1,489.45	3,677.03	3,559.41	117.62	31.261		
13,500.00	7,870.00	11,749.29	7,630.00	113.00	59.91	86.23	-2,002.31	1,489.11	3,677.03	3,556.86	120.17	30.599		
13,600.00	7,870.00	11,849.29	7,630.00	113.19	61.32	86.23	-2,102.31	1,488.77	3,677.03	3,554.27	122.76	29.952		
13,700.00	7,870.00	11,949.29	7,630.00	113.40	62.75	86.23	-2,202.31	1,488.44	3,677.04	3,551.63	125.40	29.322		
13,800.00	7,870.00	12,049.29	7,630.00	113.63	64.19	86.23	-2,302.31	1,488.10	3,677.04	3,548.96	128.08	28.708		
13,900.00	7,870.00	12,149.29	7,630.00	113.89	65.65	86.23	-2,402.31	1,487.76	3,677.04	3,546.24	130.81	28.111		
14,000.00	7,870.00	12,249.29	7,630.00	114.18	67.12	86.23	-2,502.31	1,487.42	3,677.05	3,543.48	133.57	27.530		
14,100.00	7,870.00	12,349.29	7,630.00	114.48	68.60	86.23	-2,602.31	1,487.08	3,677.05	3,540.69	136.36	26.966		
14,200.00	7,870.00	12,449.29	7,630.00	114.82	70.09	86.23	-2,702.31	1,486.74	3,677.05	3,537.87	139.19	26.418		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,300.00	7,870.00	12,549.29	7,630.00	115.18	71.59	86.23	-2,802.31	1,486.40	3,677.05	3,535.01	142.04	25.887		
14,400.00	7,870.00	12,649.29	7,630.00	115.57	73.11	86.23	-2,902.31	1,486.07	3,677.06	3,532.13	144.93	25.371		
14,500.00	7,870.00	12,749.29	7,630.00	115.99	74.63	86.23	-3,002.31	1,485.73	3,677.06	3,529.21	147.85	24.871		
14,600.00	7,870.00	12,849.29	7,630.00	116.44	76.17	86.23	-3,102.31	1,485.39	3,677.06	3,526.28	150.79	24.386		
14,700.00	7,870.00	12,949.29	7,630.00	116.92	77.71	86.23	-3,202.31	1,485.05	3,677.07	3,523.31	153.75	23.915		
14,800.00	7,870.00	13,049.29	7,630.00	117.44	79.26	86.23	-3,302.30	1,484.71	3,677.07	3,520.33	156.74	23.459		
14,900.00	7,870.00	13,149.29	7,630.00	117.98	80.82	86.23	-3,402.30	1,484.37	3,677.07	3,517.32	159.75	23.017		
15,000.00	7,870.00	13,249.29	7,630.00	118.56	82.39	86.23	-3,502.30	1,484.03	3,677.08	3,514.29	162.78	22.589		
15,100.00	7,870.00	13,349.29	7,630.00	119.17	83.96	86.23	-3,602.30	1,483.70	3,677.08	3,511.24	165.83	22.173		
15,200.00	7,870.00	13,449.29	7,630.00	119.81	85.54	86.23	-3,702.30	1,483.36	3,677.08	3,508.18	168.90	21.770		
15,300.00	7,870.00	13,549.29	7,630.00	120.48	87.13	86.23	-3,802.30	1,483.02	3,677.08	3,505.09	171.99	21.380		
15,400.00	7,870.00	13,649.29	7,630.00	121.19	88.72	86.23	-3,902.30	1,482.68	3,677.09	3,501.99	175.09	21.001		
15,500.00	7,870.00	13,749.29	7,630.00	121.93	90.32	86.23	-4,002.30	1,482.34	3,677.09	3,498.88	178.21	20.633		
15,600.00	7,870.00	13,849.29	7,630.00	122.71	91.93	86.23	-4,102.30	1,482.00	3,677.09	3,495.75	181.35	20.277		
15,700.00	7,870.00	13,949.29	7,630.00	123.52	93.54	86.23	-4,202.30	1,481.67	3,677.10	3,492.60	184.49	19.931		
15,800.00	7,870.00	14,049.29	7,630.00	124.36	95.15	86.23	-4,302.30	1,481.33	3,677.10	3,489.44	187.66	19.595		
15,900.00	7,870.00	14,149.29	7,630.00	125.23	96.77	86.23	-4,402.30	1,480.99	3,677.10	3,486.27	190.83	19.269		
16,000.00	7,870.00	14,249.29	7,630.00	126.14	98.40	86.23	-4,502.30	1,480.65	3,677.10	3,483.09	194.02	18.952		
16,100.00	7,870.00	14,349.29	7,630.00	127.07	100.03	86.23	-4,602.30	1,480.31	3,677.11	3,479.89	197.22	18.645		
16,200.00	7,870.00	14,449.29	7,630.00	128.04	101.66	86.23	-4,702.30	1,479.97	3,677.11	3,476.69	200.42	18.347		
16,300.00	7,870.00	14,549.29	7,630.00	129.04	103.30	86.23	-4,802.30	1,479.63	3,677.11	3,473.47	203.64	18.057		
16,400.00	7,870.00	14,649.29	7,630.00	130.06	104.94	86.23	-4,902.30	1,479.30	3,677.12	3,470.24	206.87	17.775		
16,500.00	7,870.00	14,749.29	7,630.00	131.11	106.58	86.23	-5,002.29	1,478.96	3,677.12	3,467.01	210.11	17.501		
16,600.00	7,870.00	14,849.29	7,630.00	132.19	108.23	86.23	-5,102.29	1,478.62	3,677.12	3,463.76	213.36	17.234		
16,700.00	7,870.00	14,949.29	7,630.00	133.29	109.89	86.23	-5,202.29	1,478.28	3,677.12	3,460.51	216.62	16.975		
16,800.00	7,870.00	15,049.29	7,630.00	134.42	111.54	86.23	-5,302.29	1,477.94	3,677.13	3,457.24	219.88	16.723		
16,900.00	7,870.00	15,149.29	7,630.00	135.57	113.20	86.23	-5,402.29	1,477.60	3,677.13	3,453.97	223.16	16.478		
17,000.00	7,870.00	15,249.29	7,630.00	136.75	114.86	86.23	-5,502.29	1,477.26	3,677.13	3,450.69	226.44	16.239		
17,100.00	7,870.00	15,349.29	7,630.00	137.94	116.53	86.23	-5,602.29	1,476.93	3,677.14	3,447.41	229.73	16.007		
17,200.00	7,870.00	15,449.29	7,630.00	139.16	118.19	86.23	-5,702.29	1,476.59	3,677.14	3,444.12	233.02	15.780		
17,300.00	7,870.00	15,549.29	7,630.00	140.39	119.86	86.23	-5,802.29	1,476.25	3,677.14	3,440.82	236.32	15.560		
17,400.00	7,870.00	15,649.29	7,630.00	141.65	121.54	86.23	-5,902.29	1,475.91	3,677.14	3,437.51	239.63	15.345		
17,500.00	7,870.00	15,749.29	7,630.00	142.92	123.21	86.23	-6,002.29	1,475.57	3,677.15	3,434.20	242.95	15.136		
17,600.00	7,870.00	15,849.29	7,630.00	144.21	124.89	86.23	-6,102.29	1,475.23	3,677.15	3,430.88	246.27	14.931		
17,700.00	7,870.00	15,949.29	7,630.00	145.52	126.57	86.23	-6,202.29	1,474.89	3,677.15	3,427.56	249.59	14.733		
17,800.00	7,870.00	16,049.29	7,630.00	146.84	128.25	86.23	-6,302.29	1,474.56	3,677.16	3,424.23	252.93	14.538		
17,900.00	7,870.00	16,149.29	7,630.00	148.18	129.93	86.23	-6,402.29	1,474.22	3,677.16	3,420.90	256.26	14.349		
18,000.00	7,870.00	16,249.29	7,630.00	149.54	131.62	86.23	-6,502.29	1,473.88	3,677.16	3,417.56	259.61	14.164		
18,100.00	7,870.00	16,349.29	7,630.00	150.90	133.31	86.23	-6,602.29	1,473.54	3,677.16	3,414.21	262.95	13.984		
18,200.00	7,870.00	16,449.29	7,630.00	152.28	135.00	86.23	-6,702.29	1,473.20	3,677.17	3,410.86	266.30	13.808		
18,300.00	7,870.00	16,549.29	7,630.00	153.67	136.69	86.23	-6,802.28	1,472.86	3,677.17	3,407.51	269.66	13.636		
18,400.00	7,870.00	16,649.29	7,630.00	155.07	138.38	86.23	-6,902.28	1,472.52	3,677.17	3,404.15	273.02	13.469		
18,500.00	7,870.00	16,749.29	7,630.00	156.49	140.08	86.23	-7,002.28	1,472.19	3,677.18	3,400.79	276.38	13.305		
18,600.00	7,870.00	16,849.29	7,630.00	157.91	141.78	86.23	-7,102.28	1,471.85	3,677.18	3,397.43	279.75	13.144		
18,700.00	7,870.00	16,949.29	7,630.00	159.35	143.48	86.23	-7,202.28	1,471.51	3,677.18	3,394.06	283.13	12.988		
18,800.00	7,870.00	17,049.29	7,630.00	160.79	145.18	86.23	-7,302.28	1,471.17	3,677.18	3,390.68	286.50	12.835		
18,900.00	7,870.00	17,149.29	7,630.00	162.25	146.88	86.23	-7,402.28	1,470.83	3,677.19	3,387.31	289.88	12.685		
19,000.00	7,870.00	17,249.29	7,630.00	163.71	148.58	86.23	-7,502.28	1,470.49	3,677.19	3,383.93	293.27	12.539		
19,100.00	7,870.00	17,349.29	7,630.00	165.18	150.29	86.23	-7,602.28	1,470.15	3,677.19	3,380.54	296.65	12.396		
19,200.00	7,870.00	17,449.29	7,630.00	166.66	151.99	86.23	-7,702.28	1,469.82	3,677.20	3,377.15	300.04	12.256		
19,300.00	7,870.00	17,549.29	7,630.00	168.15	153.70	86.23	-7,802.28	1,469.48	3,677.20	3,373.76	303.44	12.119		
19,400.00	7,870.00	17,649.29	7,630.00	169.65	155.41	86.23	-7,902.28	1,469.14	3,677.20	3,370.37	306.83	11.984		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,500.00	7,870.00	17,749.29	7,630.00	171.15	157.12	86.23	-8,002.28	1,468.80	3,677.21	3,366.97	310.23	11.853	
19,600.00	7,870.00	17,849.29	7,630.00	172.66	158.83	86.23	-8,102.28	1,468.46	3,677.21	3,363.58	313.63	11.725	
19,700.00	7,870.00	17,949.29	7,630.00	174.18	160.54	86.23	-8,202.28	1,468.12	3,677.21	3,360.17	317.04	11.599	
19,800.00	7,870.00	18,049.29	7,630.00	175.70	162.25	86.23	-8,302.28	1,467.78	3,677.21	3,356.77	320.44	11.475	
19,889.26	7,870.00	18,138.54	7,630.00	177.06	163.78	86.23	-8,391.53	1,467.48	3,677.22	3,353.73	323.49	11.367 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	48.13	1,788.18	1,995.24	8,172.42					
100.00	100.00	16,236.00	7,569.74	0.13	158.98	48.13	1,788.18	1,995.24	8,078.01	7,998.90	79.11	102.107		
200.00	200.00	16,236.00	7,569.74	0.49	158.98	48.13	1,788.18	1,995.24	7,983.74	7,904.46	79.27	100.712		
300.00	300.00	16,236.00	7,569.74	0.85	158.98	48.13	1,788.18	1,995.24	7,889.61	7,810.16	79.45	99.303		
400.00	399.98	16,236.00	7,569.74	1.21	158.98	-22.09	1,788.18	1,995.24	7,795.08	7,715.44	79.64	97.875		
500.00	499.84	16,236.00	7,569.74	1.56	158.98	-24.62	1,788.18	1,995.24	7,699.67	7,619.83	79.84	96.443		
600.00	599.45	16,236.00	7,569.74	1.93	158.98	-27.74	1,788.18	1,995.24	7,603.45	7,523.44	80.02	95.025		
700.00	698.70	16,236.00	7,569.74	2.32	158.98	-31.64	1,788.18	1,995.24	7,506.53	7,426.35	80.18	93.626		
800.00	797.47	16,236.00	7,569.74	2.72	158.98	-36.61	1,788.18	1,995.24	7,408.98	7,328.67	80.32	92.249		
900.00	895.62	16,236.00	7,569.74	3.16	158.98	-43.03	1,788.18	1,995.24	7,310.92	7,230.48	80.43	90.895		
1,000.00	993.06	16,236.00	7,569.74	3.63	158.98	-51.38	1,788.18	1,995.24	7,212.42	7,131.90	80.53	89.567		
1,100.00	1,089.64	16,236.00	7,569.74	4.14	158.98	-62.10	1,788.18	1,995.24	7,113.62	7,033.02	80.59	88.266		
1,200.00	1,185.27	16,236.00	7,569.74	4.70	158.98	-75.25	1,788.18	1,995.24	7,014.60	6,933.97	80.63	86.994		
1,300.00	1,279.82	16,236.00	7,569.74	5.31	158.98	-89.98	1,788.18	1,995.24	6,915.49	6,834.84	80.65	85.751		
1,400.00	1,373.17	16,236.00	7,569.74	5.97	158.98	-104.50	1,788.18	1,995.24	6,816.41	6,735.78	80.63	84.539		
1,500.00	1,465.21	16,236.00	7,569.74	6.69	158.98	-117.18	1,788.18	1,995.24	6,717.47	6,636.89	80.59	83.357		
1,600.00	1,555.84	16,236.00	7,569.74	7.47	158.98	-127.37	1,788.18	1,995.24	6,618.82	6,538.30	80.52	82.205		
1,700.00	1,644.94	16,236.00	7,569.74	8.31	158.98	-135.27	1,788.18	1,995.24	6,520.58	6,440.16	80.42	81.083		
1,800.00	1,732.39	16,236.00	7,569.74	9.23	158.98	-141.34	1,788.18	1,995.24	6,422.90	6,342.60	80.30	79.988		
1,900.00	1,818.11	16,236.00	7,569.74	10.21	158.98	-146.05	1,788.18	1,995.24	6,325.93	6,245.77	80.16	78.920		
2,000.00	1,901.97	16,236.00	7,569.74	11.26	158.98	-149.76	1,788.18	1,995.24	6,229.81	6,149.81	80.00	77.874		
2,100.00	1,983.88	16,236.00	7,569.74	12.38	158.98	-152.72	1,788.18	1,995.24	6,134.71	6,054.88	79.83	76.850		
2,200.00	2,063.74	16,236.00	7,569.74	13.57	158.98	-155.12	1,788.18	1,995.24	6,040.80	5,961.15	79.65	75.842		
2,300.00	2,141.45	16,236.00	7,569.74	14.84	158.98	-157.11	1,788.18	1,995.24	5,948.24	5,868.77	79.47	74.848		
2,327.78	2,162.65	16,236.00	7,569.74	15.21	158.98	-157.59	1,788.18	1,995.24	5,922.79	5,843.38	79.42	74.579		
2,400.00	2,217.51	16,236.00	7,569.74	16.17	158.98	-157.59	1,788.18	1,995.24	5,856.88	5,777.57	79.30	73.853		
2,500.00	2,293.49	16,236.00	7,569.74	17.51	158.98	-157.59	1,788.18	1,995.24	5,765.85	5,686.67	79.17	72.826		
2,600.00	2,369.47	16,236.00	7,569.74	18.86	158.98	-157.59	1,788.18	1,995.24	5,675.12	5,596.06	79.06	71.779		
2,700.00	2,445.45	16,236.00	7,569.74	20.22	158.98	-157.59	1,788.18	1,995.24	5,584.71	5,505.73	78.98	70.713		
2,800.00	2,521.42	16,236.00	7,569.74	21.59	158.98	-157.59	1,788.18	1,995.24	5,494.63	5,415.72	78.91	69.629		
2,900.00	2,597.40	16,236.00	7,569.74	22.97	158.98	-157.59	1,788.18	1,995.24	5,404.90	5,326.03	78.87	68.529		
3,000.00	2,673.38	16,236.00	7,569.74	24.34	158.98	-157.59	1,788.18	1,995.24	5,315.54	5,236.68	78.85	67.412		
3,100.00	2,749.36	16,236.00	7,569.74	25.73	158.98	-157.59	1,788.18	1,995.24	5,226.56	5,147.70	78.86	66.279		
3,200.00	2,825.33	16,236.00	7,569.74	27.11	158.98	-157.59	1,788.18	1,995.24	5,137.99	5,059.10	78.89	65.130		
3,300.00	2,901.31	16,236.00	7,569.74	28.50	158.98	-157.59	1,788.18	1,995.24	5,049.84	4,970.89	78.95	63.965		
3,400.00	2,977.29	16,236.00	7,569.74	29.90	158.98	-157.59	1,788.18	1,995.24	4,962.14	4,883.11	79.03	62.785		
3,500.00	3,053.27	16,236.00	7,569.74	31.29	158.98	-157.59	1,788.18	1,995.24	4,874.92	4,795.77	79.15	61.588		
3,600.00	3,129.24	16,236.00	7,569.74	32.69	158.98	-157.59	1,788.18	1,995.24	4,788.20	4,708.89	79.31	60.374		
3,700.00	3,205.22	16,236.00	7,569.74	34.08	158.98	-157.59	1,788.18	1,995.24	4,702.00	4,622.50	79.50	59.144		
3,800.00	3,281.20	16,236.00	7,569.74	35.48	158.98	-157.59	1,788.18	1,995.24	4,616.37	4,536.63	79.74	57.895		
3,900.00	3,357.18	16,236.00	7,569.74	36.88	158.98	-157.59	1,788.18	1,995.24	4,531.31	4,451.30	80.02	56.629		
4,000.00	3,433.15	16,236.00	7,569.74	38.29	158.98	-157.59	1,788.18	1,995.24	4,446.89	4,366.54	80.35	55.344		
4,100.00	3,509.13	16,236.00	7,569.74	39.69	158.98	-157.59	1,788.18	1,995.24	4,363.12	4,282.38	80.74	54.039		
4,200.00	3,585.11	16,236.00	7,569.74	41.09	158.98	-157.59	1,788.18	1,995.24	4,280.04	4,198.85	81.19	52.716		
4,300.00	3,661.08	16,236.00	7,569.74	42.50	158.98	-157.59	1,788.18	1,995.24	4,197.71	4,116.00	81.71	51.372		
4,400.00	3,737.06	16,236.00	7,569.74	43.90	158.98	-157.59	1,788.18	1,995.24	4,116.16	4,033.85	82.31	50.009		
4,500.00	3,813.04	16,236.00	7,569.74	45.31	158.98	-157.59	1,788.18	1,995.24	4,035.44	3,952.45	82.99	48.627		
4,600.00	3,889.02	16,236.00	7,569.74	46.71	158.98	-157.59	1,788.18	1,995.24	3,955.59	3,871.83	83.76	47.225		
4,700.00	3,964.99	16,236.00	7,569.74	48.12	158.98	-157.59	1,788.18	1,995.24	3,876.69	3,792.06	84.63	45.806		
4,800.00	4,040.97	16,236.00	7,569.74	49.53	158.98	-157.59	1,788.18	1,995.24	3,798.78	3,713.16	85.62	44.370		
4,900.00	4,116.95	16,236.00	7,569.74	50.94	158.98	-157.59	1,788.18	1,995.24	3,721.92	3,635.20	86.72	42.919		
5,000.00	4,192.93	16,236.00	7,569.74	52.35	158.98	-157.59	1,788.18	1,995.24	3,646.19	3,558.23	87.95	41.456		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,268.90	16,236.00	7,569.74	53.76	158.98	-157.59	1,788.18	1,995.24	3,571.65	3,482.32	89.33	39.983		
5,200.00	4,344.88	16,236.00	7,569.74	55.16	158.98	-157.59	1,788.18	1,995.24	3,498.38	3,407.52	90.86	38.505		
5,300.00	4,420.86	16,236.00	7,569.74	56.57	158.98	-157.59	1,788.18	1,995.24	3,426.46	3,333.92	92.54	37.025		
5,400.00	4,496.84	16,236.00	7,569.74	57.98	158.98	-157.59	1,788.18	1,995.24	3,355.98	3,261.58	94.41	35.549		
5,500.00	4,572.81	16,236.00	7,569.74	59.39	158.98	-157.59	1,788.18	1,995.24	3,287.04	3,190.59	96.45	34.081		
5,600.00	4,648.79	16,236.00	7,569.74	60.81	158.98	-157.59	1,788.18	1,995.24	3,219.72	3,121.04	98.68	32.627		
5,700.00	4,724.77	16,236.00	7,569.74	62.22	158.98	-157.59	1,788.18	1,995.24	3,154.14	3,053.02	101.12	31.193		
5,800.00	4,800.74	16,236.00	7,569.74	63.63	158.98	-157.59	1,788.18	1,995.24	3,090.40	2,986.65	103.75	29.786		
5,900.00	4,876.72	16,236.00	7,569.74	65.04	158.98	-157.59	1,788.18	1,995.24	3,028.62	2,922.02	106.60	28.411		
6,000.00	4,952.70	16,236.00	7,569.74	66.45	158.98	-157.59	1,788.18	1,995.24	2,968.93	2,859.27	109.66	27.074		
6,100.00	5,028.68	16,236.00	7,569.74	67.86	158.98	-157.59	1,788.18	1,995.24	2,911.45	2,798.52	112.93	25.781		
6,200.00	5,104.65	16,236.00	7,569.74	69.27	158.98	-157.59	1,788.18	1,995.24	2,856.31	2,739.91	116.41	24.537		
6,300.00	5,180.63	16,236.00	7,569.74	70.69	158.98	-157.59	1,788.18	1,995.24	2,803.66	2,683.58	120.09	23.347		
6,400.00	5,256.61	16,236.00	7,569.74	72.10	158.98	-157.59	1,788.18	1,995.24	2,753.63	2,629.68	123.96	22.215		
6,500.00	5,332.59	16,236.00	7,569.74	73.51	158.98	-157.59	1,788.18	1,995.24	2,706.38	2,578.37	128.01	21.142		
6,600.00	5,408.56	16,236.00	7,569.74	74.92	158.98	-157.59	1,788.18	1,995.24	2,662.04	2,529.82	132.22	20.134		
6,700.00	5,484.54	16,236.00	7,569.74	76.34	158.98	-157.59	1,788.18	1,995.24	2,620.78	2,484.20	136.57	19.189		
6,800.00	5,560.52	16,236.00	7,569.74	77.75	158.98	-157.59	1,788.18	1,995.24	2,582.72	2,441.68	141.05	18.311		
6,900.00	5,636.50	16,236.00	7,569.74	79.16	158.98	-157.59	1,788.18	1,995.24	2,548.03	2,402.42	145.61	17.499		
7,000.00	5,712.47	16,236.00	7,569.74	80.57	158.98	-157.59	1,788.18	1,995.24	2,516.83	2,366.60	150.23	16.753		
7,100.00	5,788.45	16,236.00	7,569.74	81.99	158.98	-157.59	1,788.18	1,995.24	2,489.26	2,334.38	154.88	16.072		
7,200.00	5,864.43	16,236.00	7,569.74	83.40	158.98	-157.59	1,788.18	1,995.24	2,465.44	2,305.92	159.52	15.455		
7,300.00	5,940.40	16,236.00	7,569.74	84.81	158.98	-157.59	1,788.18	1,995.24	2,445.48	2,281.36	164.12	14.900		
7,400.00	6,016.38	16,236.00	7,569.74	86.23	158.98	-157.59	1,788.18	1,995.24	2,429.48	2,260.84	168.64	14.407		
7,500.00	6,092.36	16,236.00	7,569.74	87.64	158.98	-157.59	1,788.18	1,995.24	2,417.51	2,244.48	173.03	13.971		
7,600.00	6,168.34	16,236.00	7,569.74	89.05	158.98	-157.59	1,788.18	1,995.24	2,409.64	2,232.36	177.28	13.593		
7,700.00	6,244.31	16,236.00	7,569.74	90.47	158.98	-157.59	1,788.18	1,995.24	2,405.90	2,224.56	181.33	13.268		
7,740.06	6,274.75	16,236.00	7,569.74	91.03	158.98	-157.59	1,788.18	1,995.24	2,405.56	2,222.66	182.90	13.152 CC		
7,800.00	6,320.29	16,236.00	7,569.74	91.88	158.98	-157.59	1,788.18	1,995.24	2,406.31	2,221.13	185.18	12.995 ES		
7,900.00	6,396.27	16,236.00	7,569.74	93.30	158.98	-157.59	1,788.18	1,995.24	2,410.87	2,222.09	188.78	12.771		
8,000.00	6,472.25	16,236.00	7,569.74	94.71	158.98	-157.59	1,788.18	1,995.24	2,419.57	2,227.44	192.12	12.594		
8,100.00	6,548.22	16,236.00	7,569.74	96.12	158.98	-157.59	1,788.18	1,995.24	2,432.34	2,237.15	195.19	12.462		
8,200.00	6,624.20	16,236.00	7,569.74	97.54	158.98	-157.59	1,788.18	1,995.24	2,449.14	2,251.17	197.97	12.371		
8,300.00	6,700.18	16,236.00	7,569.74	98.95	158.98	-157.59	1,788.18	1,995.24	2,469.87	2,269.41	200.46	12.321		
8,400.00	6,776.16	16,236.00	7,569.74	100.37	158.98	-157.59	1,788.18	1,995.24	2,494.44	2,291.79	202.65	12.309 SF		
8,500.00	6,852.13	16,236.31	7,569.74	101.78	158.98	-157.60	1,787.87	1,995.23	2,522.74	2,318.18	204.56	12.332		
8,600.00	6,928.11	16,210.63	7,569.87	103.20	158.54	-157.01	1,813.54	1,995.69	2,554.52	2,348.17	206.35	12.379		
8,700.00	7,004.09	16,185.31	7,570.00	104.61	158.10	-156.43	1,838.86	1,996.14	2,589.52	2,381.62	207.89	12.456		
8,800.00	7,080.06	16,157.49	7,570.13	106.02	157.61	-155.80	1,866.68	1,996.64	2,627.60	2,418.38	209.22	12.559		
8,900.00	7,156.04	16,130.02	7,570.18	107.44	157.14	-155.17	1,894.14	1,997.14	2,668.62	2,458.31	210.32	12.689		
9,000.00	7,232.02	16,102.90	7,570.18	108.85	156.67	-154.56	1,921.25	1,997.64	2,712.45	2,501.25	211.20	12.843		
9,104.68	7,311.55	16,075.84	7,570.11	110.33	156.20	-153.94	1,948.31	1,998.14	2,761.22	2,549.30	211.92	13.030		
9,150.00	7,346.29	16,066.10	7,570.06	110.97	156.03	-161.48	1,958.05	1,998.32	2,783.43	2,571.26	212.17	13.119		
9,200.00	7,385.15	16,059.58	7,570.03	111.65	155.91	-170.38	1,964.56	1,998.44	2,808.97	2,596.54	212.42	13.223		
9,250.00	7,424.29	16,057.49	7,570.02	112.31	155.88	-179.72	1,966.65	1,998.48	2,835.39	2,622.75	212.64	13.334		
9,300.00	7,463.40	16,059.80	7,570.03	112.93	155.92	170.74	1,964.35	1,998.44	2,862.50	2,649.67	212.82	13.450		
9,350.00	7,502.19	16,066.42	7,570.06	113.51	156.03	161.23	1,957.73	1,998.31	2,890.05	2,677.07	212.97	13.570		
9,400.00	7,540.36	16,077.27	7,570.11	114.04	156.22	151.99	1,946.88	1,998.12	2,917.79	2,704.70	213.09	13.693		
9,450.00	7,577.62	16,092.22	7,570.16	114.53	156.48	143.19	1,931.94	1,997.84	2,945.47	2,732.28	213.19	13.816		
9,500.00	7,613.70	16,111.68	7,570.19	114.95	156.82	134.96	1,912.48	1,997.48	2,972.82	2,759.56	213.27	13.939		
9,550.00	7,648.30	16,135.43	7,570.18	115.32	157.23	127.37	1,888.73	1,997.04	2,999.56	2,786.23	213.33	14.061		
9,600.00	7,681.18	16,162.95	7,570.11	115.63	157.71	120.48	1,861.21	1,996.54	3,025.42	2,812.03	213.39	14.178		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
9,650.00	7,712.08	16,193.67	7,569.96	115.88	158.24	114.32	1,830.50	1,995.99	3,050.12	2,836.66	213.46	14.289		
9,700.00	7,740.76	16,227.21	7,569.79	116.08	158.83	108.87	1,796.97	1,995.39	3,073.42	2,859.86	213.55	14.392		
9,750.00	7,767.01	16,236.00	7,569.74	116.23	158.98	104.41	1,788.18	1,995.24	3,095.18	2,881.36	213.83	14.475		
9,800.00	7,790.63	16,236.00	7,569.74	116.33	158.98	100.64	1,788.18	1,995.24	3,115.54	2,901.37	214.17	14.547		
9,850.00	7,811.44	16,236.00	7,569.74	116.38	158.98	97.39	1,788.18	1,995.24	3,134.38	2,919.84	214.53	14.610		
9,900.00	7,829.28	16,236.00	7,569.74	116.38	158.98	94.63	1,788.18	1,995.24	3,151.57	2,936.65	214.92	14.664		
9,950.00	7,844.01	16,236.00	7,569.74	116.35	158.98	92.33	1,788.18	1,995.24	3,167.03	2,951.70	215.33	14.708		
10,000.00	7,855.52	16,236.00	7,569.74	116.28	158.98	90.46	1,788.18	1,995.24	3,180.65	2,964.89	215.75	14.742		
10,050.00	7,863.72	16,236.00	7,569.74	116.18	158.98	89.01	1,788.18	1,995.24	3,192.36	2,976.15	216.20	14.766		
10,100.00	7,868.56	16,236.00	7,569.74	116.06	158.98	87.95	1,788.18	1,995.24	3,202.08	2,985.41	216.67	14.779		
10,145.94	7,870.00	16,236.00	7,569.74	115.92	158.98	87.31	1,788.18	1,995.24	3,209.23	2,992.11	217.11	14.781		
10,200.00	7,870.00	16,236.00	7,569.74	115.76	158.98	87.31	1,788.18	1,995.24	3,217.06	2,999.43	217.62	14.783		
10,300.00	7,870.00	16,236.00	7,569.74	115.46	158.98	87.31	1,788.18	1,995.24	3,233.87	3,015.40	218.47	14.803		
10,400.00	7,870.00	16,236.00	7,569.74	115.18	158.98	87.31	1,788.18	1,995.24	3,253.67	3,034.50	219.17	14.845		
10,500.00	7,870.00	16,236.00	7,569.74	114.91	158.98	87.31	1,788.18	1,995.24	3,276.40	3,056.67	219.73	14.911		
10,600.00	7,870.00	16,236.00	7,569.74	114.65	158.98	87.31	1,788.18	1,995.24	3,302.01	3,081.86	220.15	14.999		
10,700.00	7,870.00	16,236.00	7,569.74	114.41	158.98	87.31	1,788.18	1,995.24	3,330.42	3,109.99	220.43	15.109		
10,800.00	7,870.00	16,236.00	7,569.74	114.17	158.98	87.31	1,788.18	1,995.24	3,361.57	3,140.99	220.58	15.240		
10,900.00	7,870.00	16,236.00	7,569.74	113.95	158.98	87.31	1,788.18	1,995.24	3,395.38	3,174.79	220.60	15.392		
11,000.00	7,870.00	16,236.00	7,569.74	113.75	158.98	87.31	1,788.18	1,995.24	3,431.78	3,211.29	220.49	15.565		
11,100.00	7,870.00	16,236.00	7,569.74	113.55	158.98	87.31	1,788.18	1,995.24	3,470.67	3,250.41	220.26	15.757		
11,200.00	7,870.00	16,236.00	7,569.74	113.37	158.98	87.31	1,788.18	1,995.24	3,511.98	3,292.06	219.92	15.969		
11,300.00	7,870.00	16,236.00	7,569.74	113.20	158.98	87.31	1,788.18	1,995.24	3,555.62	3,336.15	219.48	16.201		
11,400.00	7,870.00	16,236.00	7,569.74	113.04	158.98	87.31	1,788.18	1,995.24	3,601.51	3,382.58	218.94	16.450		
11,500.00	7,870.00	16,236.00	7,569.74	112.89	158.98	87.31	1,788.18	1,995.24	3,649.57	3,431.26	218.31	16.718		
11,600.00	7,870.00	16,236.00	7,569.74	112.76	158.98	87.31	1,788.18	1,995.24	3,699.70	3,482.11	217.60	17.003		
11,700.00	7,870.00	16,236.00	7,569.74	112.64	158.98	87.31	1,788.18	1,995.24	3,751.83	3,535.02	216.81	17.305		
11,800.00	7,870.00	16,236.00	7,569.74	112.53	158.98	87.31	1,788.18	1,995.24	3,805.88	3,589.92	215.96	17.623		
11,900.00	7,870.00	16,236.00	7,569.74	112.44	158.98	87.31	1,788.18	1,995.24	3,861.76	3,646.70	215.05	17.957		
12,000.00	7,870.00	16,236.00	7,569.74	112.36	158.98	87.31	1,788.18	1,995.24	3,919.39	3,705.30	214.09	18.307		
12,100.00	7,870.00	16,236.00	7,569.74	112.29	158.98	87.31	1,788.18	1,995.24	3,978.70	3,765.61	213.09	18.671		
12,200.00	7,870.00	16,236.00	7,569.74	112.24	158.98	87.31	1,788.18	1,995.24	4,039.62	3,827.57	212.05	19.051		
12,300.00	7,870.00	16,236.00	7,569.74	112.20	158.98	87.31	1,788.18	1,995.24	4,102.07	3,891.10	210.97	19.444		
12,400.00	7,870.00	16,236.00	7,569.74	112.17	158.98	87.31	1,788.18	1,995.24	4,165.99	3,956.12	209.87	19.851		
12,500.00	7,870.00	16,236.00	7,569.74	112.16	158.98	87.31	1,788.18	1,995.24	4,231.30	4,022.56	208.74	20.271		
12,600.00	7,870.00	16,236.00	7,569.74	112.17	158.98	87.31	1,788.18	1,995.24	4,297.95	4,090.35	207.60	20.703		
12,700.00	7,870.00	16,236.00	7,569.74	112.19	158.98	87.31	1,788.18	1,995.24	4,365.87	4,159.43	206.44	21.148		
12,800.00	7,870.00	16,236.00	7,569.74	112.23	158.98	87.31	1,788.18	1,995.24	4,435.00	4,229.73	205.27	21.606		
12,900.00	7,870.00	16,236.00	7,569.74	112.28	158.98	87.31	1,788.18	1,995.24	4,505.30	4,301.20	204.10	22.074		
13,000.00	7,870.00	16,236.00	7,569.74	112.36	158.98	87.31	1,788.18	1,995.24	4,576.70	4,373.78	202.92	22.554		
13,100.00	7,870.00	16,236.00	7,569.74	112.45	158.98	87.31	1,788.18	1,995.24	4,649.15	4,447.41	201.74	23.045		
13,200.00	7,870.00	16,236.00	7,569.74	112.56	158.98	87.31	1,788.18	1,995.24	4,722.61	4,522.04	200.57	23.546		
13,300.00	7,870.00	16,236.00	7,569.74	112.68	158.98	87.31	1,788.18	1,995.24	4,797.03	4,597.64	199.40	24.057		
13,400.00	7,870.00	16,236.00	7,569.74	112.83	158.98	87.31	1,788.18	1,995.24	4,872.37	4,674.14	198.24	24.579		
13,500.00	7,870.00	16,236.00	7,569.74	113.00	158.98	87.31	1,788.18	1,995.24	4,948.58	4,751.50	197.08	25.110		
13,600.00	7,870.00	16,236.00	7,569.74	113.19	158.98	87.31	1,788.18	1,995.24	5,025.62	4,829.69	195.93	25.650		
13,700.00	7,870.00	16,236.00	7,569.74	113.40	158.98	87.31	1,788.18	1,995.24	5,103.47	4,908.67	194.80	26.199		
13,800.00	7,870.00	16,236.00	7,569.74	113.63	158.98	87.31	1,788.18	1,995.24	5,182.07	4,988.39	193.68	26.756		
13,900.00	7,870.00	16,236.00	7,569.74	113.89	158.98	87.31	1,788.18	1,995.24	5,261.39	5,068.83	192.57	27.322		
14,000.00	7,870.00	16,236.00	7,569.74	114.18	158.98	87.31	1,788.18	1,995.24	5,341.42	5,149.94	191.47	27.896		
14,100.00	7,870.00	16,236.00	7,569.74	114.48	158.98	87.31	1,788.18	1,995.24	5,422.10	5,231.71	190.39	28.478		
14,200.00	7,870.00	16,236.00	7,569.74	114.82	158.98	87.31	1,788.18	1,995.24	5,503.42	5,314.09	189.33	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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
14,300.00	7,870.00	16,236.00	7,569.74	115.18	158.98	87.31	1,788.18	1,995.24	5,585.35	5,397.07	188.28	29.665		
14,400.00	7,870.00	16,236.00	7,569.74	115.57	158.98	87.31	1,788.18	1,995.24	5,667.85	5,480.60	187.25	30.269		
14,500.00	7,870.00	16,236.00	7,569.74	115.99	158.98	87.31	1,788.18	1,995.24	5,750.91	5,564.68	186.23	30.880		
14,600.00	7,870.00	16,236.00	7,569.74	116.44	158.98	87.31	1,788.18	1,995.24	5,834.51	5,649.27	185.23	31.498		
14,700.00	7,870.00	16,236.00	7,569.74	116.92	158.98	87.31	1,788.18	1,995.24	5,918.61	5,734.35	184.25	32.122		
14,800.00	7,870.00	16,236.00	7,569.74	117.44	158.98	87.31	1,788.18	1,995.24	6,003.20	5,819.91	183.29	32.753		
14,900.00	7,870.00	16,236.00	7,569.74	117.98	158.98	87.31	1,788.18	1,995.24	6,088.25	5,905.91	182.34	33.389		
15,000.00	7,870.00	16,236.00	7,569.74	118.56	158.98	87.31	1,788.18	1,995.24	6,173.76	5,992.34	181.41	34.032		
15,100.00	7,870.00	16,236.00	7,569.74	119.17	158.98	87.31	1,788.18	1,995.24	6,259.69	6,079.19	180.50	34.680		
15,200.00	7,870.00	16,236.00	7,569.74	119.81	158.98	87.31	1,788.18	1,995.24	6,346.04	6,166.43	179.60	35.333		
15,300.00	7,870.00	16,236.00	7,569.74	120.48	158.98	87.31	1,788.18	1,995.24	6,432.78	6,254.05	178.73	35.992		
15,400.00	7,870.00	16,236.00	7,569.74	121.19	158.98	87.31	1,788.18	1,995.24	6,519.90	6,342.03	177.87	36.656		
15,500.00	7,870.00	16,236.00	7,569.74	121.93	158.98	87.31	1,788.18	1,995.24	6,607.39	6,430.37	177.02	37.326		
15,600.00	7,870.00	16,236.00	7,569.74	122.71	158.98	87.31	1,788.18	1,995.24	6,695.22	6,519.03	176.19	38.000		
15,700.00	7,870.00	16,236.00	7,569.74	123.52	158.98	87.31	1,788.18	1,995.24	6,783.40	6,608.02	175.38	38.678		
15,800.00	7,870.00	16,236.00	7,569.74	124.36	158.98	87.31	1,788.18	1,995.24	6,871.89	6,697.31	174.58	39.362		
15,900.00	7,870.00	16,236.00	7,569.74	125.23	158.98	87.31	1,788.18	1,995.24	6,960.70	6,786.90	173.80	40.049		
16,000.00	7,870.00	16,236.00	7,569.74	126.14	158.98	87.31	1,788.18	1,995.24	7,049.81	6,876.77	173.04	40.741		
16,100.00	7,870.00	16,236.00	7,569.74	127.07	158.98	87.31	1,788.18	1,995.24	7,139.21	6,966.92	172.29	41.437		
16,200.00	7,870.00	16,236.00	7,569.74	128.04	158.98	87.31	1,788.18	1,995.24	7,228.88	7,057.33	171.56	42.137		
16,300.00	7,870.00	16,236.00	7,569.74	129.04	158.98	87.31	1,788.18	1,995.24	7,318.82	7,147.99	170.84	42.841		
16,400.00	7,870.00	16,236.00	7,569.74	130.06	158.98	87.31	1,788.18	1,995.24	7,409.02	7,238.89	170.13	43.549		
16,500.00	7,870.00	16,236.00	7,569.74	131.11	158.98	87.31	1,788.18	1,995.24	7,499.47	7,330.03	169.44	44.260		
16,600.00	7,870.00	16,236.00	7,569.74	132.19	158.98	87.31	1,788.18	1,995.24	7,590.16	7,421.40	168.76	44.975		
16,700.00	7,870.00	16,236.00	7,569.74	133.29	158.98	87.31	1,788.18	1,995.24	7,681.08	7,512.98	168.10	45.693		
16,800.00	7,870.00	16,236.00	7,569.74	134.42	158.98	87.31	1,788.18	1,995.24	7,772.22	7,604.77	167.45	46.415		
16,900.00	7,870.00	16,236.00	7,569.74	135.57	158.98	87.31	1,788.18	1,995.24	7,863.58	7,696.77	166.82	47.139		
17,000.00	7,870.00	16,236.00	7,569.74	136.75	158.98	87.31	1,788.18	1,995.24	7,955.15	7,788.95	166.19	47.867		
17,100.00	7,870.00	16,236.00	7,569.74	137.94	158.98	87.31	1,788.18	1,995.24	8,046.91	7,881.33	165.58	48.598		
17,200.00	7,870.00	16,236.00	7,569.74	139.16	158.98	87.31	1,788.18	1,995.24	8,138.87	7,973.89	164.98	49.331		
17,300.00	7,870.00	16,236.00	7,569.74	140.39	158.98	87.31	1,788.18	1,995.24	8,231.02	8,066.62	164.40	50.068		
17,400.00	7,870.00	16,236.00	7,569.74	141.65	158.98	87.31	1,788.18	1,995.24	8,323.35	8,159.53	163.82	50.807		
17,500.00	7,870.00	16,236.00	7,569.74	142.92	158.98	87.31	1,788.18	1,995.24	8,415.86	8,252.60	163.26	51.549		
17,600.00	7,870.00	16,236.00	7,569.74	144.21	158.98	87.31	1,788.18	1,995.24	8,508.53	8,345.82	162.71	52.293		
17,700.00	7,870.00	16,236.00	7,569.74	145.52	158.98	87.31	1,788.18	1,995.24	8,601.37	8,439.20	162.17	53.039		
17,800.00	7,870.00	16,236.00	7,569.74	146.84	158.98	87.31	1,788.18	1,995.24	8,694.37	8,532.73	161.64	53.788		
17,900.00	7,870.00	16,236.00	7,569.74	148.18	158.98	87.31	1,788.18	1,995.24	8,787.52	8,626.39	161.12	54.540		
18,000.00	7,870.00	16,236.00	7,569.74	149.54	158.98	87.31	1,788.18	1,995.24	8,880.82	8,720.20	160.61	55.293		
18,100.00	7,870.00	16,236.00	7,569.74	150.90	158.98	87.31	1,788.18	1,995.24	8,974.26	8,814.15	160.12	56.049		
18,200.00	7,870.00	16,236.00	7,569.74	152.28	158.98	87.31	1,788.18	1,995.24	9,067.85	8,908.22	159.63	56.806		
18,300.00	7,870.00	16,236.00	7,569.74	153.67	158.98	87.31	1,788.18	1,995.24	9,161.56	9,002.42	159.15	57.566		
18,400.00	7,870.00	16,236.00	7,569.74	155.07	158.98	87.31	1,788.18	1,995.24	9,255.42	9,096.73	158.68	58.327		
18,500.00	7,870.00	16,236.00	7,569.74	156.49	158.98	87.31	1,788.18	1,995.24	9,349.39	9,191.17	158.22	59.090		
18,600.00	7,870.00	16,236.00	7,569.74	157.91	158.98	87.31	1,788.18	1,995.24	9,443.50	9,285.73	157.77	59.856		
18,700.00	7,870.00	16,236.00	7,569.74	159.35	158.98	87.31	1,788.18	1,995.24	9,537.72	9,380.39	157.33	60.622		
18,800.00	7,870.00	16,236.00	7,569.74	160.79	158.98	87.31	1,788.18	1,995.24	9,632.06	9,475.16	156.90	61.391		
18,900.00	7,870.00	16,236.00	7,569.74	162.25	158.98	87.31	1,788.18	1,995.24	9,726.51	9,570.04	156.47	62.161		
19,000.00	7,870.00	16,236.00	7,569.74	163.71	158.98	87.31	1,788.18	1,995.24	9,821.07	9,665.01	156.06	62.932		
19,100.00	7,870.00	16,236.00	7,569.74	165.18	158.98	87.31	1,788.18	1,995.24	9,915.74	9,760.09	155.65	63.705		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	37.56	1,782.50	1,370.72	8,146.10					
100.00	100.00	16,659.00	7,678.61	0.13	161.70	37.56	1,782.50	1,370.72	8,050.04	7,971.52	78.52	102.524		
200.00	200.00	16,659.00	7,678.61	0.49	161.70	37.56	1,782.50	1,370.72	7,954.06	7,875.49	78.58	101.225		
300.00	300.00	16,659.00	7,678.61	0.85	161.70	37.56	1,782.50	1,370.72	7,858.19	7,779.55	78.65	99.914		
400.00	399.98	16,659.00	7,678.61	1.21	161.70	-34.36	1,782.50	1,370.72	7,762.01	7,683.28	78.73	98.588		
500.00	499.84	16,659.00	7,678.61	1.56	161.70	-39.00	1,782.50	1,370.72	7,665.17	7,586.35	78.81	97.257		
600.00	599.45	16,659.00	7,678.61	1.93	161.70	-44.76	1,782.50	1,370.72	7,567.75	7,488.87	78.88	95.936		
700.00	698.70	16,659.00	7,678.61	2.32	161.70	-51.91	1,782.50	1,370.72	7,469.87	7,390.93	78.94	94.630		
800.00	797.47	16,659.00	7,678.61	2.72	161.70	-60.69	1,782.50	1,370.72	7,371.61	7,292.63	78.98	93.340		
900.00	895.62	16,659.00	7,678.61	3.16	161.70	-71.15	1,782.50	1,370.72	7,273.10	7,194.10	79.00	92.067		
1,000.00	993.06	16,659.00	7,678.61	3.63	161.70	-82.94	1,782.50	1,370.72	7,174.43	7,095.43	79.00	90.814		
1,100.00	1,089.64	16,659.00	7,678.61	4.14	161.70	-95.18	1,782.50	1,370.72	7,075.73	6,996.75	78.99	89.580		
1,200.00	1,185.27	16,659.00	7,678.61	4.70	161.70	-106.81	1,782.50	1,370.72	6,977.13	6,898.17	78.96	88.367		
1,300.00	1,279.82	16,659.00	7,678.61	5.31	161.70	-117.02	1,782.50	1,370.72	6,878.73	6,799.83	78.91	87.174		
1,400.00	1,373.17	16,659.00	7,678.61	5.97	161.70	-125.54	1,782.50	1,370.72	6,780.69	6,701.84	78.85	86.000		
1,500.00	1,465.21	16,659.00	7,678.61	6.69	161.70	-132.45	1,782.50	1,370.72	6,683.13	6,604.36	78.77	84.844		
1,600.00	1,555.84	16,659.00	7,678.61	7.47	161.70	-138.01	1,782.50	1,370.72	6,586.19	6,507.51	78.69	83.703		
1,700.00	1,644.94	16,659.00	7,678.61	8.31	161.70	-142.49	1,782.50	1,370.72	6,490.04	6,411.44	78.60	82.575		
1,800.00	1,732.39	16,659.00	7,678.61	9.23	161.70	-146.13	1,782.50	1,370.72	6,394.81	6,316.31	78.50	81.458		
1,900.00	1,818.11	16,659.00	7,678.61	10.21	161.70	-149.12	1,782.50	1,370.72	6,300.68	6,222.26	78.42	80.346		
2,000.00	1,901.97	16,659.00	7,678.61	11.26	161.70	-151.60	1,782.50	1,370.72	6,207.80	6,129.46	78.34	79.237		
2,100.00	1,983.88	16,659.00	7,678.61	12.38	161.70	-153.68	1,782.50	1,370.72	6,116.36	6,038.07	78.29	78.126		
2,200.00	2,063.74	16,659.00	7,678.61	13.57	161.70	-155.43	1,782.50	1,370.72	6,026.53	5,948.27	78.26	77.009		
2,300.00	2,141.45	16,659.00	7,678.61	14.84	161.70	-156.93	1,782.50	1,370.72	5,938.50	5,860.24	78.26	75.882		
2,327.78	2,162.65	16,659.00	7,678.61	15.21	161.70	-157.31	1,782.50	1,370.72	5,914.38	5,836.12	78.26	75.573		
2,400.00	2,217.51	16,659.00	7,678.61	16.17	161.70	-157.31	1,782.50	1,370.72	5,852.02	5,773.72	78.30	74.735		
2,500.00	2,293.49	16,659.00	7,678.61	17.51	161.70	-157.31	1,782.50	1,370.72	5,766.04	5,687.64	78.40	73.548		
2,600.00	2,369.47	16,659.00	7,678.61	18.86	161.70	-157.31	1,782.50	1,370.72	5,680.52	5,601.99	78.53	72.334		
2,700.00	2,445.45	16,659.00	7,678.61	20.22	161.70	-157.31	1,782.50	1,370.72	5,595.48	5,516.78	78.70	71.096		
2,800.00	2,521.42	16,659.00	7,678.61	21.59	161.70	-157.31	1,782.50	1,370.72	5,510.94	5,432.03	78.92	69.833		
2,900.00	2,597.40	16,659.00	7,678.61	22.97	161.70	-157.31	1,782.50	1,370.72	5,426.93	5,347.76	79.17	68.549		
3,000.00	2,673.38	16,659.00	7,678.61	24.34	161.70	-157.31	1,782.50	1,370.72	5,343.47	5,264.01	79.46	67.243		
3,100.00	2,749.36	16,659.00	7,678.61	25.73	161.70	-157.31	1,782.50	1,370.72	5,260.59	5,180.78	79.81	65.917		
3,200.00	2,825.33	16,659.00	7,678.61	27.11	161.70	-157.31	1,782.50	1,370.72	5,178.31	5,098.11	80.20	64.570		
3,300.00	2,901.31	16,659.00	7,678.61	28.50	161.70	-157.31	1,782.50	1,370.72	5,096.66	5,016.02	80.64	63.204		
3,400.00	2,977.29	16,659.00	7,678.61	29.90	161.70	-157.31	1,782.50	1,370.72	5,015.68	4,934.55	81.14	61.819		
3,500.00	3,053.27	16,659.00	7,678.61	31.29	161.70	-157.31	1,782.50	1,370.72	4,935.40	4,853.71	81.69	60.415		
3,600.00	3,129.24	16,659.00	7,678.61	32.69	161.70	-157.31	1,782.50	1,370.72	4,855.85	4,773.54	82.31	58.995		
3,700.00	3,205.22	16,659.00	7,678.61	34.08	161.70	-157.31	1,782.50	1,370.72	4,777.06	4,694.07	83.00	57.557		
3,800.00	3,281.20	16,659.00	7,678.61	35.48	161.70	-157.31	1,782.50	1,370.72	4,699.09	4,615.33	83.76	56.105		
3,900.00	3,357.18	16,659.00	7,678.61	36.88	161.70	-157.31	1,782.50	1,370.72	4,621.96	4,537.37	84.59	54.638		
4,000.00	3,433.15	16,659.00	7,678.61	38.29	161.70	-157.31	1,782.50	1,370.72	4,545.72	4,460.21	85.51	53.159		
4,100.00	3,509.13	16,659.00	7,678.61	39.69	161.70	-157.31	1,782.50	1,370.72	4,470.43	4,383.90	86.52	51.669		
4,200.00	3,585.11	16,659.00	7,678.61	41.09	161.70	-157.31	1,782.50	1,370.72	4,396.11	4,308.49	87.62	50.170		
4,300.00	3,661.08	16,659.00	7,678.61	42.50	161.70	-157.31	1,782.50	1,370.72	4,322.83	4,234.01	88.83	48.666		
4,400.00	3,737.06	16,659.00	7,678.61	43.90	161.70	-157.31	1,782.50	1,370.72	4,250.64	4,160.51	90.14	47.158		
4,500.00	3,813.04	16,659.00	7,678.61	45.31	161.70	-157.31	1,782.50	1,370.72	4,179.60	4,088.05	91.56	45.651		
4,600.00	3,889.02	16,659.00	7,678.61	46.71	161.70	-157.31	1,782.50	1,370.72	4,109.76	4,016.67	93.09	44.146		
4,700.00	3,964.99	16,659.00	7,678.61	48.12	161.70	-157.31	1,782.50	1,370.72	4,041.20	3,946.44	94.75	42.649		
4,800.00	4,040.97	16,659.00	7,678.61	49.53	161.70	-157.31	1,782.50	1,370.72	3,973.96	3,877.42	96.54	41.163		
4,900.00	4,116.95	16,659.00	7,678.61	50.94	161.70	-157.31	1,782.50	1,370.72	3,908.13	3,809.66	98.46	39.692		
5,000.00	4,192.93	16,659.00	7,678.61	52.35	161.70	-157.31	1,782.50	1,370.72	3,843.77	3,743.25	100.52	38.239		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,268.90	16,659.00	7,678.61	53.76	161.70	-157.31	1,782.50	1,370.72	3,780.96	3,678.24	102.71	36.810		
5,200.00	4,344.88	16,659.00	7,678.61	55.16	161.70	-157.31	1,782.50	1,370.72	3,719.78	3,614.72	105.05	35.409		
5,300.00	4,420.86	16,659.00	7,678.61	56.57	161.70	-157.31	1,782.50	1,370.72	3,660.30	3,552.77	107.53	34.039		
5,400.00	4,496.84	16,659.00	7,678.61	57.98	161.70	-157.31	1,782.50	1,370.72	3,602.63	3,492.47	110.16	32.704		
5,500.00	4,572.81	16,659.00	7,678.61	59.39	161.70	-157.31	1,782.50	1,370.72	3,546.83	3,433.91	112.92	31.409		
5,600.00	4,648.79	16,659.00	7,678.61	60.81	161.70	-157.31	1,782.50	1,370.72	3,493.01	3,377.17	115.83	30.156		
5,700.00	4,724.77	16,659.00	7,678.61	62.22	161.70	-157.31	1,782.50	1,370.72	3,441.25	3,322.37	118.88	28.948		
5,800.00	4,800.74	16,659.00	7,678.61	63.63	161.70	-157.31	1,782.50	1,370.72	3,391.65	3,269.59	122.05	27.788		
5,900.00	4,876.72	16,659.00	7,678.61	65.04	161.70	-157.31	1,782.50	1,370.72	3,344.31	3,218.95	125.36	26.678		
6,000.00	4,952.70	16,659.00	7,678.61	66.45	161.70	-157.31	1,782.50	1,370.72	3,299.31	3,170.54	128.78	25.621		
6,100.00	5,028.68	16,659.00	7,678.61	67.86	161.70	-157.31	1,782.50	1,370.72	3,256.77	3,124.47	132.30	24.616		
6,200.00	5,104.65	16,659.00	7,678.61	69.27	161.70	-157.31	1,782.50	1,370.72	3,216.78	3,080.86	135.92	23.666		
6,300.00	5,180.63	16,659.00	7,678.61	70.69	161.70	-157.31	1,782.50	1,370.72	3,179.43	3,039.80	139.63	22.771		
6,400.00	5,256.61	16,659.00	7,678.61	72.10	161.70	-157.31	1,782.50	1,370.72	3,144.81	3,001.42	143.40	21.931		
6,500.00	5,332.59	16,659.00	7,678.61	73.51	161.70	-157.31	1,782.50	1,370.72	3,113.03	2,965.81	147.22	21.146		
6,600.00	5,408.56	16,659.00	7,678.61	74.92	161.70	-157.31	1,782.50	1,370.72	3,084.16	2,933.09	151.07	20.415		
6,700.00	5,484.54	16,659.00	7,678.61	76.34	161.70	-157.31	1,782.50	1,370.72	3,058.29	2,903.35	154.94	19.739		
6,800.00	5,560.52	16,659.00	7,678.61	77.75	161.70	-157.31	1,782.50	1,370.72	3,035.49	2,876.69	158.80	19.115		
6,900.00	5,636.50	16,659.00	7,678.61	79.16	161.70	-157.31	1,782.50	1,370.72	3,015.84	2,853.20	162.64	18.543		
7,000.00	5,712.47	16,659.00	7,678.61	80.57	161.70	-157.31	1,782.50	1,370.72	2,999.40	2,832.96	166.44	18.021		
7,100.00	5,788.45	16,659.00	7,678.61	81.99	161.70	-157.31	1,782.50	1,370.72	2,986.22	2,816.05	170.17	17.548		
7,200.00	5,864.43	16,659.00	7,678.61	83.40	161.70	-157.31	1,782.50	1,370.72	2,976.34	2,802.52	173.82	17.123		
7,300.00	5,940.40	16,659.00	7,678.61	84.81	161.70	-157.31	1,782.50	1,370.72	2,969.80	2,792.43	177.36	16.744		
7,400.00	6,016.38	16,659.00	7,678.61	86.23	161.70	-157.31	1,782.50	1,370.72	2,966.61	2,785.82	180.79	16.410		
7,444.53	6,050.22	16,659.00	7,678.61	86.86	161.70	-157.31	1,782.50	1,370.72	2,966.28	2,784.01	182.27	16.274 CC		
7,500.00	6,092.36	16,659.00	7,678.61	87.64	161.70	-157.31	1,782.50	1,370.72	2,966.80	2,782.72	184.07	16.117 ES		
7,600.00	6,168.34	16,659.00	7,678.61	89.05	161.70	-157.31	1,782.50	1,370.72	2,970.35	2,783.14	187.21	15.866		
7,700.00	6,244.31	16,659.00	7,678.61	90.47	161.70	-157.31	1,782.50	1,370.72	2,977.26	2,787.07	190.18	15.655		
7,800.00	6,320.29	16,659.00	7,678.61	91.88	161.70	-157.31	1,782.50	1,370.72	2,987.50	2,794.52	192.98	15.481		
7,900.00	6,396.27	16,659.00	7,678.61	93.30	161.70	-157.31	1,782.50	1,370.72	3,001.04	2,805.44	195.60	15.342		
8,000.00	6,472.25	16,659.00	7,678.61	94.71	161.70	-157.31	1,782.50	1,370.72	3,017.84	2,819.80	198.04	15.239		
8,100.00	6,548.22	16,659.00	7,678.61	96.12	161.70	-157.31	1,782.50	1,370.72	3,037.83	2,837.56	200.28	15.168		
8,200.00	6,624.20	16,659.00	7,678.61	97.54	161.70	-157.31	1,782.50	1,370.72	3,060.97	2,858.64	202.33	15.129		
8,300.00	6,700.18	16,659.00	7,678.61	98.95	161.70	-157.31	1,782.50	1,370.72	3,087.17	2,882.99	204.18	15.120 SF		
8,400.00	6,776.16	16,659.00	7,678.61	100.37	161.70	-157.31	1,782.50	1,370.72	3,116.36	2,910.51	205.85	15.139		
8,500.00	6,852.13	16,659.00	7,678.61	101.78	161.70	-157.31	1,782.50	1,370.72	3,148.46	2,941.12	207.34	15.185		
8,600.00	6,928.11	16,659.00	7,678.61	103.20	161.70	-157.31	1,782.50	1,370.72	3,183.38	2,974.73	208.65	15.257		
8,700.00	7,004.09	16,656.34	7,678.58	104.61	161.65	-157.26	1,785.16	1,370.70	3,221.02	3,011.23	209.79	15.353		
8,800.00	7,080.06	16,633.49	7,678.31	106.02	161.25	-156.83	1,808.01	1,370.53	3,261.20	3,050.34	210.87	15.466		
8,900.00	7,156.04	16,611.36	7,678.04	107.44	160.87	-156.41	1,830.86	1,370.36	3,303.76	3,091.96	211.81	15.598		
9,000.00	7,232.02	16,588.13	7,677.80	108.85	160.46	-155.99	1,853.36	1,370.19	3,348.61	3,136.03	212.58	15.752		
9,104.68	7,311.55	16,564.12	7,677.61	110.33	160.05	-155.54	1,877.38	1,370.03	3,397.92	3,184.65	213.27	15.932		
9,150.00	7,346.29	16,555.32	7,677.55	110.97	159.89	-163.15	1,886.17	1,369.97	3,420.17	3,206.63	213.54	16.017		
9,200.00	7,385.15	16,549.66	7,677.52	111.65	159.79	-172.08	1,891.83	1,369.93	3,445.52	3,231.71	213.82	16.114		
9,250.00	7,424.29	16,548.33	7,677.52	112.31	159.77	178.62	1,893.17	1,369.92	3,471.55	3,257.47	214.08	16.216		
9,300.00	7,463.40	16,551.40	7,677.53	112.93	159.82	169.18	1,890.09	1,369.94	3,498.04	3,283.72	214.32	16.321		
9,350.00	7,502.19	16,558.92	7,677.57	113.51	159.96	159.83	1,882.57	1,369.99	3,524.77	3,310.22	214.55	16.429		
9,400.00	7,540.36	16,570.89	7,677.65	114.04	160.16	150.80	1,870.60	1,370.07	3,551.51	3,336.76	214.75	16.538		
9,450.00	7,577.62	16,587.28	7,677.79	114.53	160.45	142.25	1,854.21	1,370.19	3,578.01	3,363.07	214.94	16.646		
9,500.00	7,613.70	16,608.02	7,678.01	114.95	160.81	134.29	1,833.48	1,370.34	3,604.03	3,388.91	215.12	16.753		
9,550.00	7,648.30	16,632.21	7,678.29	115.32	161.23	127.02	1,809.29	1,370.52	3,629.30	3,414.00	215.30	16.857		
9,600.00	7,681.18	16,660.03	7,678.62	115.63	161.71	120.45	1,781.47	1,370.72	3,653.59	3,438.11	215.48	16.956		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
9,650.00	7,712.08	16,659.00	7,678.61	115.88	161.70	114.98	1,782.50	1,370.72	3,676.78	3,460.99	215.79	17.039		
9,700.00	7,740.76	16,659.00	7,678.61	116.08	161.70	110.13	1,782.50	1,370.72	3,698.82	3,482.72	216.11	17.115		
9,750.00	7,767.01	16,659.00	7,678.61	116.23	161.70	105.87	1,782.50	1,370.72	3,719.57	3,503.13	216.44	17.185		
9,800.00	7,790.63	16,659.00	7,678.61	116.33	161.70	102.18	1,782.50	1,370.72	3,738.89	3,522.11	216.78	17.247		
9,850.00	7,811.44	16,659.00	7,678.61	116.38	161.70	99.02	1,782.50	1,370.72	3,756.65	3,539.51	217.14	17.301		
9,900.00	7,829.28	16,659.00	7,678.61	116.38	161.70	96.34	1,782.50	1,370.72	3,772.75	3,555.24	217.51	17.345		
9,950.00	7,844.01	16,659.00	7,678.61	116.35	161.70	94.11	1,782.50	1,370.72	3,787.07	3,569.18	217.90	17.380		
10,000.00	7,855.52	16,659.00	7,678.61	116.28	161.70	92.32	1,782.50	1,370.72	3,799.54	3,581.24	218.30	17.405		
10,050.00	7,863.72	16,659.00	7,678.61	116.18	161.70	90.94	1,782.50	1,370.72	3,810.08	3,591.36	218.72	17.420		
10,100.00	7,868.56	16,659.00	7,678.61	116.06	161.70	89.96	1,782.50	1,370.72	3,818.63	3,599.46	219.16	17.424		
10,145.94	7,870.00	16,659.00	7,678.61	115.92	161.70	89.39	1,782.50	1,370.72	3,824.67	3,605.09	219.58	17.418		
10,200.00	7,870.00	16,659.00	7,678.61	115.76	161.70	89.39	1,782.50	1,370.72	3,831.13	3,611.07	220.06	17.409		
10,300.00	7,870.00	16,659.00	7,678.61	115.46	161.70	89.39	1,782.50	1,370.72	3,845.06	3,624.17	220.89	17.407		
10,400.00	7,870.00	16,659.00	7,678.61	115.18	161.70	89.39	1,782.50	1,370.72	3,861.53	3,639.91	221.62	17.424		
10,500.00	7,870.00	16,659.00	7,678.61	114.91	161.70	89.39	1,782.50	1,370.72	3,880.50	3,658.25	222.25	17.460		
10,600.00	7,870.00	16,659.00	7,678.61	114.65	161.70	89.39	1,782.50	1,370.72	3,901.95	3,679.16	222.79	17.514		
10,700.00	7,870.00	16,659.00	7,678.61	114.41	161.70	89.39	1,782.50	1,370.72	3,925.82	3,702.59	223.23	17.586		
10,800.00	7,870.00	16,659.00	7,678.61	114.17	161.70	89.39	1,782.50	1,370.72	3,952.09	3,728.51	223.57	17.677		
10,900.00	7,870.00	16,659.00	7,678.61	113.95	161.70	89.39	1,782.50	1,370.72	3,980.69	3,756.87	223.82	17.785		
11,000.00	7,870.00	16,659.00	7,678.61	113.75	161.70	89.39	1,782.50	1,370.72	4,011.58	3,787.61	223.98	17.911		
11,100.00	7,870.00	16,659.00	7,678.61	113.55	161.70	89.39	1,782.50	1,370.72	4,044.71	3,820.67	224.04	18.054		
11,200.00	7,870.00	16,659.00	7,678.61	113.37	161.70	89.39	1,782.50	1,370.72	4,080.02	3,856.01	224.01	18.213		
11,300.00	7,870.00	16,659.00	7,678.61	113.20	161.70	89.39	1,782.50	1,370.72	4,117.46	3,893.56	223.90	18.389		
11,400.00	7,870.00	16,659.00	7,678.61	113.04	161.70	89.39	1,782.50	1,370.72	4,156.97	3,933.25	223.71	18.582		
11,500.00	7,870.00	16,659.00	7,678.61	112.89	161.70	89.39	1,782.50	1,370.72	4,198.49	3,975.04	223.45	18.790		
11,600.00	7,870.00	16,659.00	7,678.61	112.76	161.70	89.39	1,782.50	1,370.72	4,241.95	4,018.85	223.11	19.013		
11,700.00	7,870.00	16,659.00	7,678.61	112.64	161.70	89.39	1,782.50	1,370.72	4,287.32	4,064.62	222.70	19.252		
11,800.00	7,870.00	16,659.00	7,678.61	112.53	161.70	89.39	1,782.50	1,370.72	4,334.51	4,112.28	222.23	19.505		
11,900.00	7,870.00	16,659.00	7,678.61	112.44	161.70	89.39	1,782.50	1,370.72	4,383.48	4,161.78	221.70	19.772		
12,000.00	7,870.00	16,659.00	7,678.61	112.36	161.70	89.39	1,782.50	1,370.72	4,434.16	4,213.05	221.11	20.054		
12,100.00	7,870.00	16,659.00	7,678.61	112.29	161.70	89.39	1,782.50	1,370.72	4,486.50	4,266.03	220.47	20.349		
12,200.00	7,870.00	16,659.00	7,678.61	112.24	161.70	89.39	1,782.50	1,370.72	4,540.44	4,320.65	219.79	20.658		
12,300.00	7,870.00	16,659.00	7,678.61	112.20	161.70	89.39	1,782.50	1,370.72	4,595.92	4,376.85	219.07	20.979		
12,400.00	7,870.00	16,659.00	7,678.61	112.17	161.70	89.39	1,782.50	1,370.72	4,652.89	4,434.58	218.31	21.313		
12,500.00	7,870.00	16,659.00	7,678.61	112.16	161.70	89.39	1,782.50	1,370.72	4,711.29	4,493.78	217.51	21.660		
12,600.00	7,870.00	16,659.00	7,678.61	112.17	161.70	89.39	1,782.50	1,370.72	4,771.08	4,554.39	216.69	22.018		
12,700.00	7,870.00	16,659.00	7,678.61	112.19	161.70	89.39	1,782.50	1,370.72	4,832.19	4,616.36	215.84	22.388		
12,800.00	7,870.00	16,659.00	7,678.61	112.23	161.70	89.39	1,782.50	1,370.72	4,894.59	4,679.63	214.96	22.770		
12,900.00	7,870.00	16,659.00	7,678.61	112.28	161.70	89.39	1,782.50	1,370.72	4,958.21	4,744.15	214.07	23.162		
13,000.00	7,870.00	16,659.00	7,678.61	112.36	161.70	89.39	1,782.50	1,370.72	5,023.02	4,809.87	213.15	23.565		
13,100.00	7,870.00	16,659.00	7,678.61	112.45	161.70	89.39	1,782.50	1,370.72	5,088.98	4,876.75	212.23	23.979		
13,200.00	7,870.00	16,659.00	7,678.61	112.56	161.70	89.39	1,782.50	1,370.72	5,156.02	4,944.73	211.29	24.402		
13,300.00	7,870.00	16,659.00	7,678.61	112.68	161.70	89.39	1,782.50	1,370.72	5,224.12	5,013.78	210.34	24.836		
13,400.00	7,870.00	16,659.00	7,678.61	112.83	161.70	89.39	1,782.50	1,370.72	5,293.24	5,083.85	209.39	25.279		
13,500.00	7,870.00	16,659.00	7,678.61	113.00	161.70	89.39	1,782.50	1,370.72	5,363.33	5,154.89	208.43	25.732		
13,600.00	7,870.00	16,659.00	7,678.61	113.19	161.70	89.39	1,782.50	1,370.72	5,434.35	5,226.88	207.47	26.193		
13,700.00	7,870.00	16,659.00	7,678.61	113.40	161.70	89.39	1,782.50	1,370.72	5,506.28	5,299.77	206.51	26.664		
13,800.00	7,870.00	16,659.00	7,678.61	113.63	161.70	89.39	1,782.50	1,370.72	5,579.07	5,373.52	205.54	27.143		
13,900.00	7,870.00	16,659.00	7,678.61	113.89	161.70	89.39	1,782.50	1,370.72	5,652.69	5,448.11	204.58	27.630		
14,000.00	7,870.00	16,659.00	7,678.61	114.18	161.70	89.39	1,782.50	1,370.72	5,727.11	5,523.49	203.62	28.126		
14,100.00	7,870.00	16,659.00	7,678.61	114.48	161.70	89.39	1,782.50	1,370.72	5,802.30	5,599.63	202.67	28.630		
14,200.00	7,870.00	16,659.00	7,678.61	114.82	161.70	89.39	1,782.50	1,370.72	5,878.23	5,676.51	201.72	29.141		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
14,300.00	7,870.00	16,659.00	7,678.61	115.18	161.70	89.39	1,782.50	1,370.72	5,954.87	5,754.09	200.78	29.659		
14,400.00	7,870.00	16,659.00	7,678.61	115.57	161.70	89.39	1,782.50	1,370.72	6,032.19	5,832.36	199.84	30.185		
14,500.00	7,870.00	16,659.00	7,678.61	115.99	161.70	89.39	1,782.50	1,370.72	6,110.18	5,911.27	198.91	30.718		
14,600.00	7,870.00	16,659.00	7,678.61	116.44	161.70	89.39	1,782.50	1,370.72	6,188.79	5,990.80	197.99	31.258		
14,700.00	7,870.00	16,659.00	7,678.61	116.92	161.70	89.39	1,782.50	1,370.72	6,268.02	6,070.94	197.08	31.805		
14,800.00	7,870.00	16,659.00	7,678.61	117.44	161.70	89.39	1,782.50	1,370.72	6,347.83	6,151.66	196.18	32.358		
14,900.00	7,870.00	16,659.00	7,678.61	117.98	161.70	89.39	1,782.50	1,370.72	6,428.21	6,232.92	195.28	32.917		
15,000.00	7,870.00	16,659.00	7,678.61	118.56	161.70	89.39	1,782.50	1,370.72	6,509.13	6,314.73	194.40	33.483		
15,100.00	7,870.00	16,659.00	7,678.61	119.17	161.70	89.39	1,782.50	1,370.72	6,590.57	6,397.04	193.53	34.054		
15,200.00	7,870.00	16,659.00	7,678.61	119.81	161.70	89.39	1,782.50	1,370.72	6,672.52	6,479.85	192.67	34.631		
15,300.00	7,870.00	16,659.00	7,678.61	120.48	161.70	89.39	1,782.50	1,370.72	6,754.96	6,563.14	191.82	35.214		
15,400.00	7,870.00	16,659.00	7,678.61	121.19	161.70	89.39	1,782.50	1,370.72	6,837.86	6,646.88	190.99	35.803		
15,500.00	7,870.00	16,659.00	7,678.61	121.93	161.70	89.39	1,782.50	1,370.72	6,921.22	6,731.06	190.16	36.397		
15,600.00	7,870.00	16,659.00	7,678.61	122.71	161.70	89.39	1,782.50	1,370.72	7,005.01	6,815.66	189.35	36.996		
15,700.00	7,870.00	16,659.00	7,678.61	123.52	161.70	89.39	1,782.50	1,370.72	7,089.22	6,900.68	188.54	37.600		
15,800.00	7,870.00	16,659.00	7,678.61	124.36	161.70	89.39	1,782.50	1,370.72	7,173.84	6,986.09	187.75	38.209		
15,900.00	7,870.00	16,659.00	7,678.61	125.23	161.70	89.39	1,782.50	1,370.72	7,258.85	7,071.87	186.97	38.823		
16,000.00	7,870.00	16,659.00	7,678.61	126.14	161.70	89.39	1,782.50	1,370.72	7,344.23	7,158.03	186.21	39.441		
16,100.00	7,870.00	16,659.00	7,678.61	127.07	161.70	89.39	1,782.50	1,370.72	7,429.98	7,244.53	185.45	40.064		
16,200.00	7,870.00	16,659.00	7,678.61	128.04	161.70	89.39	1,782.50	1,370.72	7,516.09	7,331.38	184.71	40.691		
16,300.00	7,870.00	16,659.00	7,678.61	129.04	161.70	89.39	1,782.50	1,370.72	7,602.53	7,418.55	183.98	41.323		
16,400.00	7,870.00	16,659.00	7,678.61	130.06	161.70	89.39	1,782.50	1,370.72	7,689.30	7,506.04	183.26	41.959		
16,500.00	7,870.00	16,659.00	7,678.61	131.11	161.70	89.39	1,782.50	1,370.72	7,776.39	7,593.84	182.55	42.599		
16,600.00	7,870.00	16,659.00	7,678.61	132.19	161.70	89.39	1,782.50	1,370.72	7,863.79	7,681.93	181.85	43.242		
16,700.00	7,870.00	16,659.00	7,678.61	133.29	161.70	89.39	1,782.50	1,370.72	7,951.48	7,770.31	181.17	43.890		
16,800.00	7,870.00	16,659.00	7,678.61	134.42	161.70	89.39	1,782.50	1,370.72	8,039.46	7,858.97	180.49	44.541		
16,900.00	7,870.00	16,659.00	7,678.61	135.57	161.70	89.39	1,782.50	1,370.72	8,127.72	7,947.89	179.83	45.196		
17,000.00	7,870.00	16,659.00	7,678.61	136.75	161.70	89.39	1,782.50	1,370.72	8,216.25	8,037.07	179.18	45.855		
17,100.00	7,870.00	16,659.00	7,678.61	137.94	161.70	89.39	1,782.50	1,370.72	8,305.04	8,126.50	178.54	46.516		
17,200.00	7,870.00	16,659.00	7,678.61	139.16	161.70	89.39	1,782.50	1,370.72	8,394.08	8,216.17	177.91	47.182		
17,300.00	7,870.00	16,659.00	7,678.61	140.39	161.70	89.39	1,782.50	1,370.72	8,483.36	8,306.07	177.29	47.850		
17,400.00	7,870.00	16,659.00	7,678.61	141.65	161.70	89.39	1,782.50	1,370.72	8,572.89	8,396.20	176.68	48.522		
17,500.00	7,870.00	16,659.00	7,678.61	142.92	161.70	89.39	1,782.50	1,370.72	8,662.64	8,486.55	176.08	49.196		
17,600.00	7,870.00	16,659.00	7,678.61	144.21	161.70	89.39	1,782.50	1,370.72	8,752.61	8,577.11	175.50	49.874		
17,700.00	7,870.00	16,659.00	7,678.61	145.52	161.70	89.39	1,782.50	1,370.72	8,842.80	8,667.88	174.92	50.554		
17,800.00	7,870.00	16,659.00	7,678.61	146.84	161.70	89.39	1,782.50	1,370.72	8,933.19	8,758.84	174.35	51.237		
17,900.00	7,870.00	16,659.00	7,678.61	148.18	161.70	89.39	1,782.50	1,370.72	9,023.79	8,850.00	173.79	51.923		
18,000.00	7,870.00	16,659.00	7,678.61	149.54	161.70	89.39	1,782.50	1,370.72	9,114.59	8,941.35	173.24	52.612		
18,100.00	7,870.00	16,659.00	7,678.61	150.90	161.70	89.39	1,782.50	1,370.72	9,205.58	9,032.87	172.70	53.303		
18,200.00	7,870.00	16,659.00	7,678.61	152.28	161.70	89.39	1,782.50	1,370.72	9,296.75	9,124.58	172.17	53.996		
18,300.00	7,870.00	16,659.00	7,678.61	153.67	161.70	89.39	1,782.50	1,370.72	9,388.10	9,216.45	171.65	54.692		
18,400.00	7,870.00	16,659.00	7,678.61	155.07	161.70	89.39	1,782.50	1,370.72	9,479.63	9,308.49	171.14	55.391		
18,500.00	7,870.00	16,659.00	7,678.61	156.49	161.70	89.39	1,782.50	1,370.72	9,571.32	9,400.69	170.64	56.091		
18,600.00	7,870.00	16,659.00	7,678.61	157.91	161.70	89.39	1,782.50	1,370.72	9,663.19	9,493.04	170.14	56.794		
18,700.00	7,870.00	16,659.00	7,678.61	159.35	161.70	89.39	1,782.50	1,370.72	9,755.21	9,585.55	169.66	57.499		
18,800.00	7,870.00	16,659.00	7,678.61	160.79	161.70	89.39	1,782.50	1,370.72	9,847.38	9,678.20	169.18	58.206		
18,900.00	7,870.00	16,659.00	7,678.61	162.25	161.70	89.39	1,782.50	1,370.72	9,939.71	9,771.00	168.71	58.916		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	41.50	1,780.17	1,574.71	8,289.00					
100.00	100.00	16,530.00	7,789.95	0.13	159.85	41.50	1,780.17	1,574.71	8,193.24	8,116.25	76.99	106.420		
200.00	200.00	16,530.00	7,789.95	0.49	159.85	41.50	1,780.17	1,574.71	8,097.60	8,020.52	77.08	105.061		
300.00	300.00	16,530.00	7,789.95	0.85	159.85	41.50	1,780.17	1,574.71	8,002.05	7,924.88	77.17	103.689		
400.00	399.98	16,530.00	7,789.95	1.21	159.85	-29.85	1,780.17	1,574.71	7,906.17	7,828.89	77.28	102.300		
500.00	499.84	16,530.00	7,789.95	1.56	159.85	-33.79	1,780.17	1,574.71	7,809.57	7,732.17	77.40	100.905		
600.00	599.45	16,530.00	7,789.95	1.93	159.85	-38.72	1,780.17	1,574.71	7,712.32	7,634.83	77.49	99.523		
700.00	698.70	16,530.00	7,789.95	2.32	159.85	-44.95	1,780.17	1,574.71	7,614.54	7,536.97	77.58	98.157		
800.00	797.47	16,530.00	7,789.95	2.72	159.85	-52.82	1,780.17	1,574.71	7,516.32	7,438.68	77.64	96.810		
900.00	895.62	16,530.00	7,789.95	3.16	159.85	-62.64	1,780.17	1,574.71	7,417.77	7,340.08	77.69	95.483		
1,000.00	993.06	16,530.00	7,789.95	3.63	159.85	-74.40	1,780.17	1,574.71	7,319.00	7,241.28	77.71	94.179		
1,100.00	1,089.64	16,530.00	7,789.95	4.14	159.85	-87.49	1,780.17	1,574.71	7,220.11	7,142.39	77.72	92.898		
1,200.00	1,185.27	16,530.00	7,789.95	4.70	159.85	-100.66	1,780.17	1,574.71	7,121.23	7,043.52	77.71	91.641		
1,300.00	1,279.82	16,530.00	7,789.95	5.31	159.85	-112.63	1,780.17	1,574.71	7,022.49	6,944.81	77.68	90.408		
1,400.00	1,373.17	16,530.00	7,789.95	5.97	159.85	-122.69	1,780.17	1,574.71	6,924.00	6,846.38	77.62	89.199		
1,500.00	1,465.21	16,530.00	7,789.95	6.69	159.85	-130.78	1,780.17	1,574.71	6,825.91	6,748.35	77.56	88.012		
1,600.00	1,555.84	16,530.00	7,789.95	7.47	159.85	-137.18	1,780.17	1,574.71	6,728.35	6,650.87	77.47	86.847		
1,700.00	1,644.94	16,530.00	7,789.95	8.31	159.85	-142.24	1,780.17	1,574.71	6,631.47	6,554.09	77.38	85.701		
1,800.00	1,732.39	16,530.00	7,789.95	9.23	159.85	-146.28	1,780.17	1,574.71	6,535.41	6,458.14	77.28	84.571		
1,900.00	1,818.11	16,530.00	7,789.95	10.21	159.85	-149.54	1,780.17	1,574.71	6,440.35	6,363.17	77.17	83.453		
2,000.00	1,901.97	16,530.00	7,789.95	11.26	159.85	-152.20	1,780.17	1,574.71	6,346.43	6,269.36	77.07	82.344		
2,100.00	1,983.88	16,530.00	7,789.95	12.38	159.85	-154.41	1,780.17	1,574.71	6,253.83	6,176.85	76.98	81.239		
2,200.00	2,063.74	16,530.00	7,789.95	13.57	159.85	-156.25	1,780.17	1,574.71	6,162.72	6,085.81	76.90	80.134		
2,300.00	2,141.45	16,530.00	7,789.95	14.84	159.85	-157.81	1,780.17	1,574.71	6,073.28	5,996.43	76.85	79.025		
2,327.78	2,162.65	16,530.00	7,789.95	15.21	159.85	-158.20	1,780.17	1,574.71	6,048.75	5,971.91	76.84	78.722		
2,400.00	2,217.51	16,530.00	7,789.95	16.17	159.85	-158.20	1,780.17	1,574.71	5,985.29	5,908.45	76.83	77.899		
2,500.00	2,293.49	16,530.00	7,789.95	17.51	159.85	-158.20	1,780.17	1,574.71	5,897.74	5,820.88	76.86	76.733		
2,600.00	2,369.47	16,530.00	7,789.95	18.86	159.85	-158.20	1,780.17	1,574.71	5,810.59	5,733.67	76.92	75.540		
2,700.00	2,445.45	16,530.00	7,789.95	20.22	159.85	-158.20	1,780.17	1,574.71	5,723.87	5,646.85	77.01	74.322		
2,800.00	2,521.42	16,530.00	7,789.95	21.59	159.85	-158.20	1,780.17	1,574.71	5,637.58	5,560.44	77.14	73.080		
2,900.00	2,597.40	16,530.00	7,789.95	22.97	159.85	-158.20	1,780.17	1,574.71	5,551.76	5,474.45	77.30	71.817		
3,000.00	2,673.38	16,530.00	7,789.95	24.34	159.85	-158.20	1,780.17	1,574.71	5,466.41	5,388.91	77.50	70.532		
3,100.00	2,749.36	16,530.00	7,789.95	25.73	159.85	-158.20	1,780.17	1,574.71	5,381.57	5,303.83	77.74	69.226		
3,200.00	2,825.33	16,530.00	7,789.95	27.11	159.85	-158.20	1,780.17	1,574.71	5,297.26	5,219.25	78.02	67.900		
3,300.00	2,901.31	16,530.00	7,789.95	28.50	159.85	-158.20	1,780.17	1,574.71	5,213.51	5,135.17	78.34	66.554		
3,400.00	2,977.29	16,530.00	7,789.95	29.90	159.85	-158.20	1,780.17	1,574.71	5,130.34	5,051.63	78.70	65.188		
3,500.00	3,053.27	16,530.00	7,789.95	31.29	159.85	-158.20	1,780.17	1,574.71	5,047.77	4,968.66	79.12	63.802		
3,600.00	3,129.24	16,530.00	7,789.95	32.69	159.85	-158.20	1,780.17	1,574.71	4,965.85	4,886.27	79.58	62.398		
3,700.00	3,205.22	16,530.00	7,789.95	34.08	159.85	-158.20	1,780.17	1,574.71	4,884.60	4,804.49	80.11	60.974		
3,800.00	3,281.20	16,530.00	7,789.95	35.48	159.85	-158.20	1,780.17	1,574.71	4,804.06	4,723.37	80.70	59.533		
3,900.00	3,357.18	16,530.00	7,789.95	36.88	159.85	-158.20	1,780.17	1,574.71	4,724.26	4,642.92	81.35	58.074		
4,000.00	3,433.15	16,530.00	7,789.95	38.29	159.85	-158.20	1,780.17	1,574.71	4,645.25	4,563.18	82.07	56.599		
4,100.00	3,509.13	16,530.00	7,789.95	39.69	159.85	-158.20	1,780.17	1,574.71	4,567.06	4,484.18	82.87	55.109		
4,200.00	3,585.11	16,530.00	7,789.95	41.09	159.85	-158.20	1,780.17	1,574.71	4,489.73	4,405.97	83.76	53.605		
4,300.00	3,661.08	16,530.00	7,789.95	42.50	159.85	-158.20	1,780.17	1,574.71	4,413.31	4,328.59	84.73	52.088		
4,400.00	3,737.06	16,530.00	7,789.95	43.90	159.85	-158.20	1,780.17	1,574.71	4,337.86	4,252.06	85.79	50.562		
4,500.00	3,813.04	16,530.00	7,789.95	45.31	159.85	-158.20	1,780.17	1,574.71	4,263.41	4,176.45	86.96	49.028		
4,600.00	3,889.02	16,530.00	7,789.95	46.71	159.85	-158.20	1,780.17	1,574.71	4,190.03	4,101.80	88.23	47.489		
4,700.00	3,964.99	16,530.00	7,789.95	48.12	159.85	-158.20	1,780.17	1,574.71	4,117.77	4,028.15	89.62	45.948		
4,800.00	4,040.97	16,530.00	7,789.95	49.53	159.85	-158.20	1,780.17	1,574.71	4,046.69	3,955.57	91.12	44.409		
4,900.00	4,116.95	16,530.00	7,789.95	50.94	159.85	-158.20	1,780.17	1,574.71	3,976.85	3,884.10	92.75	42.876		
5,000.00	4,192.93	16,530.00	7,789.95	52.35	159.85	-158.20	1,780.17	1,574.71	3,908.33	3,813.81	94.51	41.353		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,268.90	16,530.00	7,789.95	53.76	159.85	-158.20	1,780.17	1,574.71	3,841.18	3,744.77	96.41	39.843		
5,200.00	4,344.88	16,530.00	7,789.95	55.16	159.85	-158.20	1,780.17	1,574.71	3,775.49	3,677.05	98.45	38.351		
5,300.00	4,420.86	16,530.00	7,789.95	56.57	159.85	-158.20	1,780.17	1,574.71	3,711.34	3,610.71	100.63	36.882		
5,400.00	4,496.84	16,530.00	7,789.95	57.98	159.85	-158.20	1,780.17	1,574.71	3,648.79	3,545.84	102.96	35.441		
5,500.00	4,572.81	16,530.00	7,789.95	59.39	159.85	-158.20	1,780.17	1,574.71	3,587.94	3,482.51	105.43	34.030		
5,600.00	4,648.79	16,530.00	7,789.95	60.81	159.85	-158.20	1,780.17	1,574.71	3,528.88	3,420.82	108.06	32.656		
5,700.00	4,724.77	16,530.00	7,789.95	62.22	159.85	-158.20	1,780.17	1,574.71	3,471.70	3,360.86	110.84	31.321		
5,800.00	4,800.74	16,530.00	7,789.95	63.63	159.85	-158.20	1,780.17	1,574.71	3,416.48	3,302.71	113.77	30.030		
5,900.00	4,876.72	16,530.00	7,789.95	65.04	159.85	-158.20	1,780.17	1,574.71	3,363.33	3,246.49	116.84	28.785		
6,000.00	4,952.70	16,530.00	7,789.95	66.45	159.85	-158.20	1,780.17	1,574.71	3,312.35	3,192.30	120.05	27.590		
6,100.00	5,028.68	16,530.00	7,789.95	67.86	159.85	-158.20	1,780.17	1,574.71	3,263.64	3,140.24	123.40	26.447		
6,200.00	5,104.65	16,530.00	7,789.95	69.27	159.85	-158.20	1,780.17	1,574.71	3,217.30	3,090.43	126.87	25.358		
6,300.00	5,180.63	16,530.00	7,789.95	70.69	159.85	-158.20	1,780.17	1,574.71	3,173.43	3,042.97	130.46	24.325		
6,400.00	5,256.61	16,530.00	7,789.95	72.10	159.85	-158.20	1,780.17	1,574.71	3,132.15	2,998.00	134.15	23.348		
6,500.00	5,332.59	16,530.00	7,789.95	73.51	159.85	-158.20	1,780.17	1,574.71	3,093.54	2,955.62	137.93	22.429		
6,600.00	5,408.56	16,530.00	7,789.95	74.92	159.85	-158.20	1,780.17	1,574.71	3,057.73	2,915.95	141.78	21.567		
6,700.00	5,484.54	16,530.00	7,789.95	76.34	159.85	-158.20	1,780.17	1,574.71	3,024.79	2,879.10	145.69	20.762		
6,800.00	5,560.52	16,530.00	7,789.95	77.75	159.85	-158.20	1,780.17	1,574.71	2,994.83	2,845.20	149.63	20.014		
6,900.00	5,636.50	16,530.00	7,789.95	79.16	159.85	-158.20	1,780.17	1,574.71	2,967.94	2,814.35	153.60	19.323		
7,000.00	5,712.47	16,530.00	7,789.95	80.57	159.85	-158.20	1,780.17	1,574.71	2,944.21	2,786.65	157.56	18.687		
7,100.00	5,788.45	16,530.00	7,789.95	81.99	159.85	-158.20	1,780.17	1,574.71	2,923.70	2,762.21	161.49	18.104		
7,200.00	5,864.43	16,530.00	7,789.95	83.40	159.85	-158.20	1,780.17	1,574.71	2,906.49	2,741.11	165.38	17.575		
7,300.00	5,940.40	16,530.00	7,789.95	84.81	159.85	-158.20	1,780.17	1,574.71	2,892.64	2,723.44	169.20	17.096		
7,400.00	6,016.38	16,530.00	7,789.95	86.23	159.85	-158.20	1,780.17	1,574.71	2,882.19	2,709.26	172.93	16.667		
7,500.00	6,092.36	16,530.00	7,789.95	87.64	159.85	-158.20	1,780.17	1,574.71	2,875.19	2,698.64	176.54	16.286		
7,600.00	6,168.34	16,530.00	7,789.95	89.05	159.85	-158.20	1,780.17	1,574.71	2,871.65	2,691.61	180.03	15.951		
7,651.66	6,207.59	16,530.00	7,789.95	89.79	159.85	-158.20	1,780.17	1,574.71	2,871.18	2,689.40	181.78	15.795 CC		
7,700.00	6,244.31	16,530.00	7,789.95	90.47	159.85	-158.20	1,780.17	1,574.71	2,871.59	2,688.22	183.37	15.660 ES		
7,800.00	6,320.29	16,530.00	7,789.95	91.88	159.85	-158.20	1,780.17	1,574.71	2,875.01	2,688.46	186.55	15.411		
7,900.00	6,396.27	16,530.00	7,789.95	93.30	159.85	-158.20	1,780.17	1,574.71	2,881.90	2,692.35	189.55	15.204		
8,000.00	6,472.25	16,530.00	7,789.95	94.71	159.85	-158.20	1,780.17	1,574.71	2,892.24	2,699.86	192.37	15.035		
8,100.00	6,548.22	16,530.00	7,789.95	96.12	159.85	-158.20	1,780.17	1,574.71	2,905.98	2,710.98	194.99	14.903		
8,200.00	6,624.20	16,530.00	7,789.95	97.54	159.85	-158.20	1,780.17	1,574.71	2,923.07	2,725.66	197.41	14.807		
8,300.00	6,700.18	16,530.00	7,789.95	98.95	159.85	-158.20	1,780.17	1,574.71	2,943.47	2,743.84	199.63	14.745		
8,400.00	6,776.16	16,530.00	7,789.95	100.37	159.85	-158.20	1,780.17	1,574.71	2,967.10	2,765.46	201.64	14.715 SF		
8,500.00	6,852.13	16,530.00	7,789.95	101.78	159.85	-158.20	1,780.17	1,574.71	2,993.89	2,790.44	203.45	14.716		
8,600.00	6,928.11	16,530.00	7,789.95	103.20	159.85	-158.20	1,780.17	1,574.71	3,023.74	2,818.69	205.06	14.746		
8,700.00	7,004.09	16,530.00	7,789.95	104.61	159.85	-158.20	1,780.17	1,574.71	3,056.58	2,850.11	206.47	14.804		
8,800.00	7,080.06	16,530.00	7,789.95	106.02	159.85	-158.20	1,780.17	1,574.71	3,092.31	2,884.61	207.70	14.889		
8,900.00	7,156.04	16,530.00	7,789.95	107.44	159.85	-158.20	1,780.17	1,574.71	3,130.82	2,922.08	208.74	14.998		
9,000.00	7,232.02	16,530.00	7,789.95	108.85	159.85	-158.20	1,780.17	1,574.71	3,172.02	2,962.40	209.62	15.132		
9,104.68	7,311.55	16,530.00	7,789.95	110.33	159.85	-158.20	1,780.17	1,574.71	3,217.91	3,007.54	210.37	15.297		
9,150.00	7,346.29	16,530.00	7,789.95	110.97	159.85	-165.78	1,780.17	1,574.71	3,238.73	3,028.08	210.66	15.374		
9,200.00	7,385.15	16,530.00	7,789.95	111.65	159.85	-174.57	1,780.17	1,574.71	3,262.43	3,051.44	210.99	15.462		
9,250.00	7,424.29	16,530.00	7,789.95	112.31	159.85	176.38	1,780.17	1,574.71	3,286.69	3,075.36	211.34	15.552		
9,300.00	7,463.40	16,530.00	7,789.95	112.93	159.85	167.29	1,780.17	1,574.71	3,311.33	3,099.64	211.69	15.642		
9,350.00	7,502.19	16,530.00	7,789.95	113.51	159.85	158.40	1,780.17	1,574.71	3,336.14	3,124.10	212.05	15.733		
9,400.00	7,540.36	16,530.00	7,789.95	114.04	159.85	149.90	1,780.17	1,574.71	3,360.94	3,148.54	212.41	15.823		
9,450.00	7,577.62	16,530.00	7,789.95	114.53	159.85	141.94	1,780.17	1,574.71	3,385.54	3,172.77	212.77	15.912		
9,500.00	7,613.70	16,530.00	7,789.95	114.95	159.85	134.59	1,780.17	1,574.71	3,409.76	3,196.63	213.13	15.998		
9,550.00	7,648.30	16,530.00	7,789.95	115.32	159.85	127.91	1,780.17	1,574.71	3,433.43	3,219.93	213.50	16.081		
9,600.00	7,681.18	16,530.00	7,789.95	115.63	159.85	121.89	1,780.17	1,574.71	3,456.38	3,242.50	213.88	16.161		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
9,650.00	7,712.08	16,530.00	7,789.95	115.88	159.85	116.52	1,780.17	1,574.71	3,478.45	3,264.19	214.26	16.235		
9,700.00	7,740.76	16,530.00	7,789.95	116.08	159.85	111.76	1,780.17	1,574.71	3,499.48	3,284.84	214.64	16.304		
9,750.00	7,767.01	16,530.00	7,789.95	116.23	159.85	107.58	1,780.17	1,574.71	3,519.35	3,304.31	215.04	16.366		
9,800.00	7,790.63	16,530.00	7,789.95	116.33	159.85	103.94	1,780.17	1,574.71	3,537.92	3,322.48	215.44	16.422		
9,850.00	7,811.44	16,530.00	7,789.95	116.38	159.85	100.81	1,780.17	1,574.71	3,555.07	3,339.21	215.85	16.470		
9,900.00	7,829.28	16,530.00	7,789.95	116.38	159.85	98.15	1,780.17	1,574.71	3,570.68	3,354.41	216.28	16.510		
9,950.00	7,844.01	16,530.00	7,789.95	116.35	159.85	95.93	1,780.17	1,574.71	3,584.68	3,367.96	216.71	16.541		
10,000.00	7,855.52	16,530.00	7,789.95	116.28	159.85	94.13	1,780.17	1,574.71	3,596.95	3,379.79	217.16	16.563		
10,050.00	7,863.72	16,530.00	7,789.95	116.18	159.85	92.73	1,780.17	1,574.71	3,607.44	3,389.82	217.62	16.577		
10,100.00	7,868.56	16,530.00	7,789.95	116.06	159.85	91.72	1,780.17	1,574.71	3,616.07	3,397.98	218.10	16.580		
10,145.94	7,870.00	16,530.00	7,789.95	115.92	159.85	91.13	1,780.17	1,574.71	3,622.33	3,403.79	218.54	16.575		
10,200.00	7,870.00	16,530.00	7,789.95	115.76	159.85	91.13	1,780.17	1,574.71	3,629.12	3,410.08	219.05	16.568		
10,300.00	7,870.00	16,530.00	7,789.95	115.46	159.85	91.13	1,780.17	1,574.71	3,643.78	3,423.87	219.91	16.569		
10,400.00	7,870.00	16,530.00	7,789.95	115.18	159.85	91.13	1,780.17	1,574.71	3,661.10	3,440.44	220.67	16.591		
10,500.00	7,870.00	16,530.00	7,789.95	114.91	159.85	91.13	1,780.17	1,574.71	3,681.07	3,459.75	221.32	16.633		
10,600.00	7,870.00	16,530.00	7,789.95	114.65	159.85	91.13	1,780.17	1,574.71	3,703.62	3,481.77	221.85	16.694		
10,700.00	7,870.00	16,530.00	7,789.95	114.41	159.85	91.13	1,780.17	1,574.71	3,728.73	3,506.44	222.28	16.775		
10,800.00	7,870.00	16,530.00	7,789.95	114.17	159.85	91.13	1,780.17	1,574.71	3,756.32	3,533.72	222.60	16.875		
10,900.00	7,870.00	16,530.00	7,789.95	113.95	159.85	91.13	1,780.17	1,574.71	3,786.36	3,563.55	222.82	16.993		
11,000.00	7,870.00	16,530.00	7,789.95	113.75	159.85	91.13	1,780.17	1,574.71	3,818.78	3,595.86	222.93	17.130		
11,100.00	7,870.00	16,530.00	7,789.95	113.55	159.85	91.13	1,780.17	1,574.71	3,853.53	3,630.59	222.94	17.285		
11,200.00	7,870.00	16,530.00	7,789.95	113.37	159.85	91.13	1,780.17	1,574.71	3,890.53	3,667.68	222.85	17.458		
11,300.00	7,870.00	16,530.00	7,789.95	113.20	159.85	91.13	1,780.17	1,574.71	3,929.73	3,707.06	222.67	17.648		
11,400.00	7,870.00	16,530.00	7,789.95	113.04	159.85	91.13	1,780.17	1,574.71	3,971.07	3,748.66	222.41	17.855		
11,500.00	7,870.00	16,530.00	7,789.95	112.89	159.85	91.13	1,780.17	1,574.71	4,014.47	3,792.41	222.06	18.078		
11,600.00	7,870.00	16,530.00	7,789.95	112.76	159.85	91.13	1,780.17	1,574.71	4,059.87	3,838.23	221.63	18.318		
11,700.00	7,870.00	16,530.00	7,789.95	112.64	159.85	91.13	1,780.17	1,574.71	4,107.20	3,886.06	221.14	18.573		
11,800.00	7,870.00	16,530.00	7,789.95	112.53	159.85	91.13	1,780.17	1,574.71	4,156.40	3,935.82	220.58	18.843		
11,900.00	7,870.00	16,530.00	7,789.95	112.44	159.85	91.13	1,780.17	1,574.71	4,207.40	3,987.45	219.95	19.128		
12,000.00	7,870.00	16,530.00	7,789.95	112.36	159.85	91.13	1,780.17	1,574.71	4,260.14	4,040.86	219.28	19.428		
12,100.00	7,870.00	16,530.00	7,789.95	112.29	159.85	91.13	1,780.17	1,574.71	4,314.55	4,096.00	218.55	19.742		
12,200.00	7,870.00	16,530.00	7,789.95	112.24	159.85	91.13	1,780.17	1,574.71	4,370.58	4,152.80	217.78	20.069		
12,300.00	7,870.00	16,530.00	7,789.95	112.20	159.85	91.13	1,780.17	1,574.71	4,428.15	4,211.19	216.96	20.410		
12,400.00	7,870.00	16,530.00	7,789.95	112.17	159.85	91.13	1,780.17	1,574.71	4,487.21	4,271.10	216.11	20.763		
12,500.00	7,870.00	16,530.00	7,789.95	112.16	159.85	91.13	1,780.17	1,574.71	4,547.71	4,332.48	215.23	21.130		
12,600.00	7,870.00	16,530.00	7,789.95	112.17	159.85	91.13	1,780.17	1,574.71	4,609.58	4,395.26	214.32	21.508		
12,700.00	7,870.00	16,530.00	7,789.95	112.19	159.85	91.13	1,780.17	1,574.71	4,672.77	4,459.39	213.39	21.898		
12,800.00	7,870.00	16,530.00	7,789.95	112.23	159.85	91.13	1,780.17	1,574.71	4,737.23	4,524.80	212.43	22.300		
12,900.00	7,870.00	16,530.00	7,789.95	112.28	159.85	91.13	1,780.17	1,574.71	4,802.91	4,591.45	211.46	22.713		
13,000.00	7,870.00	16,530.00	7,789.95	112.36	159.85	91.13	1,780.17	1,574.71	4,869.75	4,659.28	210.47	23.137		
13,100.00	7,870.00	16,530.00	7,789.95	112.45	159.85	91.13	1,780.17	1,574.71	4,937.72	4,728.24	209.48	23.571		
13,200.00	7,870.00	16,530.00	7,789.95	112.56	159.85	91.13	1,780.17	1,574.71	5,006.76	4,798.29	208.47	24.016		
13,300.00	7,870.00	16,530.00	7,789.95	112.68	159.85	91.13	1,780.17	1,574.71	5,076.83	4,869.37	207.46	24.471		
13,400.00	7,870.00	16,530.00	7,789.95	112.83	159.85	91.13	1,780.17	1,574.71	5,147.89	4,941.44	206.45	24.935		
13,500.00	7,870.00	16,530.00	7,789.95	113.00	159.85	91.13	1,780.17	1,574.71	5,219.90	5,014.47	205.43	25.409		
13,600.00	7,870.00	16,530.00	7,789.95	113.19	159.85	91.13	1,780.17	1,574.71	5,292.82	5,088.40	204.42	25.892		
13,700.00	7,870.00	16,530.00	7,789.95	113.40	159.85	91.13	1,780.17	1,574.71	5,366.61	5,163.20	203.41	26.384		
13,800.00	7,870.00	16,530.00	7,789.95	113.63	159.85	91.13	1,780.17	1,574.71	5,441.24	5,238.84	202.39	26.884		
13,900.00	7,870.00	16,530.00	7,789.95	113.89	159.85	91.13	1,780.17	1,574.71	5,516.67	5,315.28	201.39	27.393		
14,000.00	7,870.00	16,530.00	7,789.95	114.18	159.85	91.13	1,780.17	1,574.71	5,592.87	5,392.48	200.39	27.910		
14,100.00	7,870.00	16,530.00	7,789.95	114.48	159.85	91.13	1,780.17	1,574.71	5,669.81	5,470.41	199.40	28.435		
14,200.00	7,870.00	16,530.00	7,789.95	114.82	159.85	91.13	1,780.17	1,574.71	5,747.46	5,549.05	198.41	28.967		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
14,300.00	7,870.00	16,530.00	7,789.95	115.18	159.85	91.13	1,780.17	1,574.71	5,825.80	5,628.36	197.44	29.507		
14,400.00	7,870.00	16,530.00	7,789.95	115.57	159.85	91.13	1,780.17	1,574.71	5,904.78	5,708.31	196.47	30.054		
14,500.00	7,870.00	16,530.00	7,789.95	115.99	159.85	91.13	1,780.17	1,574.71	5,984.40	5,788.89	195.52	30.608		
14,600.00	7,870.00	16,530.00	7,789.95	116.44	159.85	91.13	1,780.17	1,574.71	6,064.62	5,870.05	194.57	31.169		
14,700.00	7,870.00	16,530.00	7,789.95	116.92	159.85	91.13	1,780.17	1,574.71	6,145.42	5,951.78	193.64	31.737		
14,800.00	7,870.00	16,530.00	7,789.95	117.44	159.85	91.13	1,780.17	1,574.71	6,226.78	6,034.06	192.71	32.311		
14,900.00	7,870.00	16,530.00	7,789.95	117.98	159.85	91.13	1,780.17	1,574.71	6,308.67	6,116.87	191.81	32.891		
15,000.00	7,870.00	16,530.00	7,789.95	118.56	159.85	91.13	1,780.17	1,574.71	6,391.08	6,200.17	190.91	33.477		
15,100.00	7,870.00	16,530.00	7,789.95	119.17	159.85	91.13	1,780.17	1,574.71	6,473.98	6,283.96	190.02	34.070		
15,200.00	7,870.00	16,530.00	7,789.95	119.81	159.85	91.13	1,780.17	1,574.71	6,557.37	6,368.21	189.15	34.667		
15,300.00	7,870.00	16,530.00	7,789.95	120.48	159.85	91.13	1,780.17	1,574.71	6,641.21	6,452.91	188.29	35.271		
15,400.00	7,870.00	16,530.00	7,789.95	121.19	159.85	91.13	1,780.17	1,574.71	6,725.49	6,538.04	187.45	35.880		
15,500.00	7,870.00	16,530.00	7,789.95	121.93	159.85	91.13	1,780.17	1,574.71	6,810.19	6,623.58	186.61	36.494		
15,600.00	7,870.00	16,530.00	7,789.95	122.71	159.85	91.13	1,780.17	1,574.71	6,895.31	6,709.52	185.79	37.113		
15,700.00	7,870.00	16,530.00	7,789.95	123.52	159.85	91.13	1,780.17	1,574.71	6,980.82	6,795.84	184.99	37.737		
15,800.00	7,870.00	16,530.00	7,789.95	124.36	159.85	91.13	1,780.17	1,574.71	7,066.71	6,882.52	184.19	38.366		
15,900.00	7,870.00	16,530.00	7,789.95	125.23	159.85	91.13	1,780.17	1,574.71	7,152.97	6,969.56	183.41	39.000		
16,000.00	7,870.00	16,530.00	7,789.95	126.14	159.85	91.13	1,780.17	1,574.71	7,239.59	7,056.94	182.64	39.638		
16,100.00	7,870.00	16,530.00	7,789.95	127.07	159.85	91.13	1,780.17	1,574.71	7,326.54	7,144.65	181.89	40.280		
16,200.00	7,870.00	16,530.00	7,789.95	128.04	159.85	91.13	1,780.17	1,574.71	7,413.82	7,232.67	181.15	40.927		
16,300.00	7,870.00	16,530.00	7,789.95	129.04	159.85	91.13	1,780.17	1,574.71	7,501.42	7,321.00	180.42	41.578		
16,400.00	7,870.00	16,530.00	7,789.95	130.06	159.85	91.13	1,780.17	1,574.71	7,589.33	7,409.63	179.70	42.233		
16,500.00	7,870.00	16,530.00	7,789.95	131.11	159.85	91.13	1,780.17	1,574.71	7,677.53	7,498.53	179.00	42.892		
16,600.00	7,870.00	16,530.00	7,789.95	132.19	159.85	91.13	1,780.17	1,574.71	7,766.02	7,587.71	178.30	43.555		
16,700.00	7,870.00	16,530.00	7,789.95	133.29	159.85	91.13	1,780.17	1,574.71	7,854.78	7,677.16	177.62	44.221		
16,800.00	7,870.00	16,530.00	7,789.95	134.42	159.85	91.13	1,780.17	1,574.71	7,943.81	7,766.86	176.96	44.891		
16,900.00	7,870.00	16,530.00	7,789.95	135.57	159.85	91.13	1,780.17	1,574.71	8,033.10	7,856.80	176.30	45.565		
17,000.00	7,870.00	16,530.00	7,789.95	136.75	159.85	91.13	1,780.17	1,574.71	8,122.64	7,946.98	175.66	46.241		
17,100.00	7,870.00	16,530.00	7,789.95	137.94	159.85	91.13	1,780.17	1,574.71	8,212.42	8,037.40	175.02	46.922		
17,200.00	7,870.00	16,530.00	7,789.95	139.16	159.85	91.13	1,780.17	1,574.71	8,302.44	8,128.03	174.40	47.605		
17,300.00	7,870.00	16,530.00	7,789.95	140.39	159.85	91.13	1,780.17	1,574.71	8,392.68	8,218.88	173.79	48.291		
17,400.00	7,870.00	16,530.00	7,789.95	141.65	159.85	91.13	1,780.17	1,574.71	8,483.13	8,309.94	173.19	48.981		
17,500.00	7,870.00	16,530.00	7,789.95	142.92	159.85	91.13	1,780.17	1,574.71	8,573.81	8,401.20	172.60	49.673		
17,600.00	7,870.00	16,530.00	7,789.95	144.21	159.85	91.13	1,780.17	1,574.71	8,664.68	8,492.66	172.03	50.368		
17,700.00	7,870.00	16,530.00	7,789.95	145.52	159.85	91.13	1,780.17	1,574.71	8,755.76	8,584.30	171.46	51.066		
17,800.00	7,870.00	16,530.00	7,789.95	146.84	159.85	91.13	1,780.17	1,574.71	8,847.03	8,676.12	170.90	51.767		
17,900.00	7,870.00	16,530.00	7,789.95	148.18	159.85	91.13	1,780.17	1,574.71	8,938.48	8,768.13	170.35	52.470		
18,000.00	7,870.00	16,530.00	7,789.95	149.54	159.85	91.13	1,780.17	1,574.71	9,030.12	8,860.30	169.82	53.176		
18,100.00	7,870.00	16,530.00	7,789.95	150.90	159.85	91.13	1,780.17	1,574.71	9,121.93	8,952.64	169.29	53.884		
18,200.00	7,870.00	16,530.00	7,789.95	152.28	159.85	91.13	1,780.17	1,574.71	9,213.91	9,045.14	168.77	54.594		
18,300.00	7,870.00	16,530.00	7,789.95	153.67	159.85	91.13	1,780.17	1,574.71	9,306.06	9,137.80	168.26	55.307		
18,400.00	7,870.00	16,530.00	7,789.95	155.07	159.85	91.13	1,780.17	1,574.71	9,398.37	9,230.60	167.76	56.022		
18,500.00	7,870.00	16,530.00	7,789.95	156.49	159.85	91.13	1,780.17	1,574.71	9,490.83	9,323.56	167.27	56.739		
18,600.00	7,870.00	16,530.00	7,789.95	157.91	159.85	91.13	1,780.17	1,574.71	9,583.44	9,416.66	166.79	57.458		
18,700.00	7,870.00	16,530.00	7,789.95	159.35	159.85	91.13	1,780.17	1,574.71	9,676.21	9,509.89	166.32	58.180		
18,800.00	7,870.00	16,530.00	7,789.95	160.79	159.85	91.13	1,780.17	1,574.71	9,769.11	9,603.26	165.85	58.903		
18,900.00	7,870.00	16,530.00	7,789.95	162.25	159.85	91.13	1,780.17	1,574.71	9,862.16	9,696.76	165.40	59.628		
19,000.00	7,870.00	16,530.00	7,789.95	163.71	159.85	91.13	1,780.17	1,574.71	9,955.34	9,790.39	164.95	60.355		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	-55.63	787.25	-1,151.05	1,394.56					
100.00	100.00	85.42	85.42	0.13	0.13	-55.63	787.28	-1,151.20	1,394.67	1,394.40	0.27	5,189.748 ES		
200.00	200.00	180.33	180.33	0.49	0.28	-55.64	787.39	-1,151.72	1,395.18	1,394.41	0.78	1,797.660		
300.00	300.00	277.43	277.42	0.85	0.62	-55.65	787.63	-1,152.50	1,395.98	1,394.51	1.48	946.311		
400.00	399.98	375.73	375.72	1.21	0.98	-123.83	788.06	-1,153.39	1,397.95	1,395.77	2.18	640.726		
500.00	499.84	481.71	481.69	1.56	1.36	-123.96	788.43	-1,154.16	1,401.67	1,398.75	2.92	480.443		
600.00	599.45	560.99	560.97	1.93	1.64	-124.10	788.74	-1,154.81	1,407.55	1,403.98	3.57	394.491		
700.00	698.70	614.19	614.14	2.32	1.83	-124.14	789.82	-1,156.24	1,417.92	1,413.78	4.14	342.585		
800.00	797.47	654.00	653.85	2.72	1.98	-124.05	791.93	-1,158.12	1,433.89	1,429.22	4.67	306.960		
900.00	895.62	721.68	721.13	3.16	2.23	-124.01	797.88	-1,162.24	1,454.73	1,449.42	5.32	273.660		
1,000.00	993.06	791.26	790.04	3.63	2.49	-123.93	806.26	-1,167.10	1,479.85	1,473.86	5.99	247.134		
1,100.00	1,089.64	869.12	866.97	4.14	2.79	-123.90	816.54	-1,173.23	1,508.30	1,501.59	6.71	224.642		
1,200.00	1,185.27	950.71	947.45	4.70	3.12	-123.89	828.05	-1,180.05	1,539.62	1,532.14	7.49	205.682		
1,300.00	1,279.82	1,045.19	1,040.54	5.31	3.52	-124.01	841.98	-1,188.24	1,573.54	1,565.19	8.35	188.535		
1,400.00	1,373.17	1,152.99	1,146.80	5.97	3.97	-124.24	858.48	-1,195.85	1,608.45	1,599.15	9.30	172.918		
1,500.00	1,465.21	1,245.62	1,238.17	6.69	4.37	-124.40	872.27	-1,202.28	1,645.20	1,634.97	10.23	160.818		
1,600.00	1,555.84	1,332.93	1,324.36	7.47	4.74	-124.56	884.76	-1,208.53	1,684.02	1,672.85	11.17	150.806		
1,700.00	1,644.94	1,471.01	1,460.90	8.31	5.33	-125.32	903.25	-1,217.33	1,724.16	1,711.79	12.38	139.326		
1,800.00	1,732.39	1,556.10	1,545.21	9.23	5.68	-125.54	914.00	-1,221.50	1,765.01	1,751.64	13.37	132.026		
1,900.00	1,818.11	1,638.38	1,626.73	10.21	6.02	-125.75	924.30	-1,225.69	1,808.28	1,793.91	14.38	125.763		
2,000.00	1,901.97	1,707.80	1,695.55	11.26	6.31	-125.81	932.35	-1,229.86	1,854.31	1,838.96	15.35	120.827		
2,100.00	1,983.88	1,778.67	1,765.84	12.38	6.60	-125.91	939.81	-1,234.94	1,903.25	1,886.91	16.34	116.486		
2,200.00	2,063.74	1,871.01	1,857.46	13.57	6.98	-126.32	949.20	-1,241.77	1,954.74	1,937.28	17.46	111.957		
2,300.00	2,141.45	1,951.77	1,937.57	14.84	7.31	-126.51	958.16	-1,246.60	2,007.91	1,989.36	18.55	108.255		
2,327.78	2,162.65	1,970.39	1,956.03	15.21	7.39	-126.50	960.28	-1,247.72	2,023.15	2,004.32	18.83	107.416		
2,400.00	2,217.51	2,038.93	2,024.00	16.17	7.67	-127.53	968.19	-1,251.72	2,063.14	2,043.45	19.68	104.820		
2,500.00	2,293.49	2,129.26	2,113.62	17.51	8.04	-128.80	978.63	-1,255.94	2,118.18	2,097.36	20.83	101.705		
2,600.00	2,369.47	2,200.38	2,184.17	18.86	8.33	-129.76	987.06	-1,259.10	2,173.76	2,151.90	21.86	99.457		
2,700.00	2,445.45	2,267.09	2,250.32	20.22	8.61	-130.62	995.12	-1,262.28	2,230.15	2,207.30	22.85	97.609		
2,800.00	2,521.42	2,340.79	2,323.42	21.59	8.91	-131.54	1,003.69	-1,266.05	2,287.20	2,263.34	23.86	95.848		
2,900.00	2,597.40	2,411.89	2,393.98	22.97	9.20	-132.41	1,011.52	-1,269.90	2,344.82	2,319.97	24.85	94.378		
3,000.00	2,673.38	2,496.55	2,477.99	24.34	9.55	-133.39	1,021.04	-1,274.34	2,402.81	2,376.91	25.90	92.783		
3,100.00	2,749.36	2,580.12	2,560.91	25.73	9.89	-134.31	1,030.69	-1,278.31	2,460.91	2,433.97	26.93	91.365		
3,200.00	2,825.33	2,662.78	2,642.97	27.11	10.22	-135.19	1,039.78	-1,282.09	2,519.15	2,491.20	27.95	90.124		
3,300.00	2,901.31	2,748.13	2,727.74	28.50	10.57	-136.06	1,049.02	-1,285.74	2,577.51	2,548.54	28.98	88.955		
3,400.00	2,977.29	2,828.26	2,807.28	29.90	10.89	-136.82	1,058.25	-1,288.78	2,635.96	2,606.00	29.96	87.974		
3,500.00	3,053.27	2,910.84	2,889.28	31.29	11.23	-137.58	1,067.55	-1,291.83	2,694.61	2,663.66	30.95	87.052		
3,600.00	3,129.24	2,976.33	2,954.38	32.69	11.49	-138.18	1,074.27	-1,294.29	2,753.46	2,721.64	31.82	86.526		
3,700.00	3,205.22	3,025.90	3,003.63	34.08	11.69	-138.62	1,079.36	-1,296.57	2,813.21	2,780.63	32.58	86.359		
3,800.00	3,281.20	3,070.50	3,047.91	35.48	11.87	-139.01	1,084.11	-1,299.02	2,873.95	2,840.66	33.28	86.344		
3,900.00	3,357.18	3,126.00	3,102.90	36.88	12.10	-139.47	1,090.63	-1,302.68	2,935.79	2,901.73	34.06	86.200		
4,000.00	3,433.15	3,176.78	3,153.16	38.29	12.32	-139.87	1,096.91	-1,306.33	2,998.37	2,963.57	34.79	86.179		
4,100.00	3,509.13	3,264.46	3,239.97	39.69	12.69	-140.54	1,107.58	-1,312.59	3,061.18	3,025.40	35.78	85.559		
4,200.00	3,585.11	3,364.35	3,339.05	41.09	13.10	-141.29	1,118.39	-1,319.13	3,123.58	3,086.75	36.83	84.810		
4,300.00	3,661.08	3,495.33	3,469.18	42.50	13.63	-142.25	1,131.53	-1,326.12	3,185.21	3,147.14	38.08	83.651		
4,400.00	3,737.06	3,558.23	3,531.66	43.90	13.88	-142.68	1,138.18	-1,329.01	3,246.54	3,207.68	38.86	83.536		
4,500.00	3,813.04	3,612.83	3,585.84	45.31	14.10	-143.04	1,144.38	-1,331.72	3,308.39	3,268.80	39.59	83.562		
4,600.00	3,889.02	3,666.27	3,638.81	46.71	14.33	-143.37	1,150.78	-1,334.70	3,370.91	3,330.60	40.31	83.631		
4,700.00	3,964.99	3,731.83	3,703.78	48.12	14.60	-143.77	1,158.60	-1,338.65	3,433.90	3,392.79	41.10	83.542		
4,800.00	4,040.97	3,840.73	3,811.85	49.53	15.05	-144.43	1,170.41	-1,345.05	3,496.87	3,454.67	42.20	82.867		
4,900.00	4,116.95	3,912.50	3,883.16	50.94	15.34	-144.86	1,177.54	-1,348.94	3,559.54	3,516.53	43.01	82.754		
5,000.00	4,192.93	3,975.94	3,946.17	52.35	15.59	-145.23	1,184.02	-1,352.46	3,622.46	3,578.69	43.77	82.765		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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	4,268.90	5,100.00	4,046.05	53.76	20.06	-145.79	1,194.01	-1,357.86	3,685.36	3,636.62	48.74	75.605		
5,200.00	4,344.88	4,192.53	4,161.61	55.16	16.44	-146.46	1,203.38	-1,362.98	3,747.48	3,701.61	45.87	81.703		
5,300.00	4,420.86	4,248.38	4,217.23	56.57	16.66	-146.77	1,207.80	-1,365.40	3,809.76	3,763.22	46.54	81.859		
5,400.00	4,496.84	4,303.51	4,272.07	57.98	16.88	-147.05	1,212.84	-1,368.03	3,872.56	3,825.35	47.21	82.028		
5,500.00	4,572.81	4,357.97	4,326.21	59.39	17.09	-147.33	1,218.01	-1,370.89	3,935.85	3,887.98	47.87	82.213		
5,600.00	4,648.79	4,422.60	4,390.43	60.81	17.35	-147.64	1,224.25	-1,374.57	3,999.56	3,950.95	48.61	82.280		
5,700.00	4,724.77	4,490.34	4,457.71	62.22	17.63	-147.96	1,231.06	-1,378.50	4,063.48	4,014.12	49.37	82.311		
5,800.00	4,800.74	4,550.20	4,517.14	63.63	17.87	-148.23	1,237.17	-1,382.14	4,127.70	4,077.63	50.07	82.446		
5,900.00	4,876.72	4,613.15	4,579.64	65.04	18.13	-148.51	1,243.63	-1,386.17	4,192.24	4,141.46	50.78	82.549		
6,000.00	4,952.70	4,712.79	4,678.48	66.45	18.54	-148.93	1,254.43	-1,392.57	4,256.96	4,205.17	51.79	82.193		
6,100.00	5,028.68	4,863.12	4,827.41	67.86	19.16	-149.48	1,273.51	-1,399.77	4,320.38	4,267.16	53.23	81.172		
6,200.00	5,104.65	4,933.10	4,896.69	69.27	19.46	-149.72	1,282.96	-1,402.66	4,383.51	4,329.48	54.03	81.129		
6,300.00	5,180.63	4,981.89	4,944.96	70.69	19.67	-149.88	1,289.69	-1,404.86	4,446.99	4,392.32	54.67	81.347		
6,400.00	5,256.61	5,051.18	5,013.46	72.10	19.96	-150.09	1,299.55	-1,408.35	4,510.91	4,455.44	55.47	81.323		
6,500.00	5,332.59	5,154.85	5,116.19	73.51	20.39	-150.44	1,312.59	-1,413.11	4,574.51	4,517.98	56.53	80.923		
6,600.00	5,408.56	5,235.82	5,196.60	74.92	20.72	-150.71	1,321.48	-1,416.58	4,637.93	4,580.54	57.39	80.817		
6,700.00	5,484.54	5,312.53	5,272.78	76.34	21.03	-150.97	1,329.89	-1,419.84	4,701.39	4,643.18	58.21	80.766		
6,800.00	5,560.52	5,387.94	5,347.65	77.75	21.34	-151.22	1,338.30	-1,423.00	4,764.86	4,705.84	59.02	80.727		
6,900.00	5,636.50	5,466.87	5,406.11	79.16	21.58	-151.40	1,345.29	-1,425.59	4,828.54	4,768.83	59.71	80.861		
7,000.00	5,712.47	5,497.29	5,456.07	80.57	21.79	-151.54	1,351.62	-1,428.01	4,892.58	4,832.24	60.34	81.086		
7,100.00	5,788.45	5,552.00	5,510.25	81.99	22.02	-151.70	1,358.62	-1,430.98	4,957.10	4,896.10	61.00	81.268		
7,200.00	5,864.43	5,632.13	5,589.64	83.40	22.36	-151.92	1,368.56	-1,435.44	5,021.80	4,959.94	61.86	81.179		
7,300.00	5,940.40	5,699.57	5,656.53	84.81	22.64	-152.12	1,376.25	-1,439.11	5,086.44	5,023.84	62.61	81.244		
7,400.00	6,016.38	5,731.00	5,687.74	86.23	22.76	-152.21	1,379.60	-1,440.86	5,151.40	5,088.35	63.05	81.697		
7,500.00	6,092.36	5,780.14	5,736.48	87.64	22.97	-152.35	1,385.00	-1,443.93	5,216.83	5,153.18	63.65	81.967		
7,600.00	6,168.34	5,820.00	5,775.95	89.05	23.14	-152.46	1,389.77	-1,446.86	5,282.96	5,218.80	64.16	82.341		
7,700.00	6,244.31	5,881.95	5,837.22	90.47	23.40	-152.61	1,397.47	-1,451.69	5,349.48	5,284.61	64.87	82.469		
7,800.00	6,320.29	6,016.98	5,970.98	91.88	23.97	-152.96	1,413.20	-1,461.36	5,415.60	5,349.42	66.18	81.829		
7,900.00	6,396.27	6,089.36	6,042.80	93.30	24.27	-153.16	1,420.82	-1,466.12	5,481.33	5,414.38	66.96	81.866		
8,000.00	6,472.25	6,136.61	6,089.68	94.71	24.46	-153.28	1,425.76	-1,469.35	5,547.30	5,479.78	67.52	82.158		
8,100.00	6,548.22	6,185.07	6,137.74	96.12	24.66	-153.41	1,430.88	-1,472.89	5,613.65	5,545.56	68.09	82.441		
8,200.00	6,624.20	6,237.04	6,189.25	97.54	24.88	-153.54	1,436.50	-1,476.90	5,680.33	5,611.63	68.70	82.688		
8,300.00	6,700.18	6,325.65	6,277.03	98.95	25.25	-153.75	1,446.34	-1,483.92	5,747.21	5,677.59	69.61	82.560		
8,400.00	6,776.16	6,477.66	6,427.90	100.37	25.87	-154.12	1,461.63	-1,494.45	5,813.40	5,742.36	71.04	81.836		
8,500.00	6,852.13	6,678.30	6,627.14	101.78	26.68	-154.58	1,482.91	-1,504.52	5,877.95	5,805.10	72.85	80.683		
8,600.00	6,928.11	6,741.87	6,690.43	103.20	26.93	-154.73	1,488.34	-1,507.12	5,942.14	5,868.60	73.53	80.809		
8,700.00	7,004.09	6,800.00	6,748.31	104.61	27.15	-154.87	1,493.09	-1,509.67	6,006.59	5,932.42	74.17	80.989		
8,800.00	7,080.06	6,855.92	6,803.98	106.02	27.37	-155.01	1,497.61	-1,512.28	6,071.29	5,996.51	74.78	81.190		
8,900.00	7,156.04	6,932.49	6,880.23	107.44	27.66	-155.19	1,503.57	-1,516.00	6,136.19	6,060.64	75.55	81.224		
9,000.00	7,232.02	7,020.55	6,968.04	108.85	27.99	-155.42	1,508.85	-1,519.98	6,200.94	6,124.56	76.38	81.187		
9,104.68	7,311.55	7,095.51	7,042.85	110.33	28.25	-155.62	1,512.18	-1,523.24	6,268.70	6,191.61	77.10	81.310		
9,150.00	7,346.29	7,124.08	7,071.39	110.97	28.35	-164.80	1,512.72	-1,524.47	6,298.23	6,220.87	77.36	81.415		
9,200.00	7,385.15	7,155.76	7,103.04	111.65	28.45	-175.28	1,512.72	-1,525.82	6,331.02	6,253.39	77.63	81.555		
9,250.00	7,424.29	7,157.00	7,104.28	112.31	28.46	174.09	1,512.71	-1,525.87	6,363.87	6,286.19	77.68	81.926		
9,300.00	7,463.40	7,157.00	7,104.28	112.93	28.46	163.53	1,512.71	-1,525.87	6,396.64	6,318.94	77.70	82.329		
9,350.00	7,502.19	7,157.00	7,104.28	113.51	28.46	153.30	1,512.71	-1,525.87	6,429.07	6,351.38	77.69	82.753		
9,400.00	7,540.36	7,157.00	7,104.28	114.04	28.46	143.64	1,512.71	-1,525.87	6,460.93	6,383.27	77.66	83.193		
9,450.00	7,577.62	7,192.39	7,139.59	114.53	28.55	134.87	1,511.39	-1,527.72	6,491.48	6,413.66	77.82	83.417		
9,500.00	7,613.70	7,199.18	7,146.35	114.95	28.57	126.81	1,510.92	-1,528.16	6,521.31	6,443.51	77.79	83.827		
9,550.00	7,648.30	7,205.79	7,152.92	115.32	28.59	119.60	1,510.40	-1,528.61	6,549.86	6,472.10	77.76	84.235		
9,600.00	7,681.18	7,246.00	7,192.74	115.63	28.70	113.44	1,505.84	-1,531.86	6,577.40	6,499.52	77.88	84.454		
9,650.00	7,712.08	7,246.00	7,192.74	115.88	28.70	107.83	1,505.84	-1,531.86	6,602.70	6,524.90	77.80	84.870		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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		
9,700.00	7,740.76	7,246.00	7,192.74	116.08	28.70	102.96	1,505.84	-1,531.86	6,626.22	6,548.50	77.71	85.263		
9,750.00	7,767.01	7,246.00	7,192.74	116.23	28.70	98.77	1,505.84	-1,531.86	6,647.79	6,570.15	77.64	85.625		
9,800.00	7,790.63	7,246.00	7,192.74	116.33	28.70	95.21	1,505.84	-1,531.86	6,667.29	6,589.71	77.57	85.949		
9,850.00	7,811.44	7,246.00	7,192.74	116.38	28.70	92.22	1,505.84	-1,531.86	6,684.57	6,607.05	77.52	86.227		
9,900.00	7,829.28	7,246.00	7,192.74	116.38	28.70	89.76	1,505.84	-1,531.86	6,699.52	6,622.03	77.49	86.453		
9,950.00	7,844.01	7,246.00	7,192.74	116.35	28.70	87.79	1,505.84	-1,531.86	6,712.05	6,634.56	77.49	86.620		
10,000.00	7,855.52	7,246.00	7,192.74	116.28	28.70	86.28	1,505.84	-1,531.86	6,722.08	6,644.57	77.51	86.723		
10,050.00	7,863.72	7,246.00	7,192.74	116.18	28.70	85.21	1,505.84	-1,531.86	6,729.53	6,651.97	77.57	86.759		
10,100.00	7,868.56	7,246.00	7,192.74	116.06	28.70	84.56	1,505.84	-1,531.86	6,734.37	6,656.71	77.65	86.723		
10,145.94	7,870.00	7,246.00	7,192.74	115.92	28.70	84.31	1,505.84	-1,531.86	6,736.47	6,658.71	77.76	86.626		
10,200.00	7,870.00	7,246.00	7,192.74	115.76	28.70	84.31	1,505.84	-1,531.86	6,737.84	6,659.93	77.92	86.474		
10,300.00	7,870.00	7,246.00	7,192.74	115.46	28.70	84.31	1,505.84	-1,531.86	6,741.53	6,663.30	78.22	86.183		
10,400.00	7,870.00	7,246.00	7,192.74	115.18	28.70	84.31	1,505.84	-1,531.86	6,746.69	6,668.13	78.56	85.883		
10,500.00	7,870.00	8,253.78	7,902.25	114.91	29.21	90.36	889.10	-1,577.18	6,746.22	6,668.76	77.46	87.094		
10,600.00	7,870.00	8,315.00	7,913.84	114.65	29.30	90.46	829.00	-1,576.65	6,744.98	6,667.35	77.63	86.888		
10,700.00	7,870.00	8,416.63	7,924.77	114.41	29.55	90.55	728.00	-1,576.09	6,744.19	6,666.48	77.71	86.781		
10,800.00	7,870.00	8,620.44	7,928.80	114.17	30.45	90.58	524.28	-1,573.62	6,743.11	6,665.34	77.77	86.703		
10,900.00	7,870.00	8,671.00	7,928.59	113.95	30.73	90.58	473.74	-1,572.66	6,740.81	6,662.56	78.25	86.141		
11,000.00	7,870.00	8,671.00	7,928.59	113.75	30.73	90.58	473.74	-1,572.66	6,739.56	6,660.76	78.80	85.523		
11,072.36	7,870.00	8,709.23	7,928.14	113.60	30.97	90.58	435.51	-1,572.45	6,739.14	6,659.91	79.23	85.057		
11,100.00	7,870.00	8,715.94	7,928.04	113.55	31.01	90.58	428.81	-1,572.49	6,739.18	6,659.79	79.39	84.889		
11,200.00	7,870.00	8,760.00	7,927.22	113.37	31.29	90.57	384.76	-1,573.23	6,740.17	6,660.17	80.01	84.247		
11,300.00	7,870.00	8,760.00	7,927.22	113.20	31.29	90.57	384.76	-1,573.23	6,742.05	6,661.42	80.63	83.614		
11,400.00	7,870.00	8,799.28	7,926.68	113.04	31.57	90.57	345.51	-1,574.52	6,745.07	6,663.74	81.33	82.932		
11,500.00	7,870.00	9,120.28	7,938.39	112.89	34.23	90.67	24.92	-1,582.51	6,747.95	6,664.86	83.09	81.211		
11,600.00	7,870.00	9,244.46	7,940.91	112.76	35.45	90.69	-99.23	-1,583.04	6,748.07	6,663.56	84.51	79.850		
11,700.00	7,870.00	9,405.50	7,943.57	112.64	37.15	90.71	-260.25	-1,582.62	6,747.49	6,661.11	86.37	78.120		
11,800.00	7,870.00	9,525.32	7,945.79	112.53	38.50	90.73	-380.05	-1,581.64	6,746.36	6,658.23	88.13	76.550		
11,900.00	7,870.00	9,634.07	7,947.37	112.44	39.78	90.74	-488.77	-1,580.45	6,744.95	6,655.03	89.92	75.015		
12,000.00	7,870.00	9,740.00	7,948.00	112.36	41.07	90.75	-594.69	-1,578.93	6,743.17	6,651.39	91.78	73.472		
12,100.00	7,870.00	9,791.40	7,948.07	112.29	41.72	90.75	-646.09	-1,578.33	6,741.83	6,648.68	93.14	72.380		
12,191.57	7,870.00	9,829.00	7,948.24	112.24	42.20	90.75	-683.69	-1,578.35	6,741.51	6,647.19	94.32	71.478		
12,200.00	7,870.00	9,829.00	7,948.24	112.24	42.20	90.75	-683.69	-1,578.35	6,741.51	6,647.13	94.38	71.426		
12,300.00	7,870.00	9,910.94	7,949.12	112.20	43.25	90.76	-765.63	-1,578.87	6,741.82	6,645.65	96.17	70.106		
12,400.00	7,870.00	10,013.01	7,950.30	112.17	44.60	90.77	-867.68	-1,579.60	6,742.21	6,643.96	98.26	68.619		
12,500.00	7,870.00	10,131.10	7,950.44	112.16	46.19	90.77	-985.77	-1,580.12	6,742.30	6,641.67	100.63	67.001		
12,600.00	7,870.00	10,206.05	7,949.27	112.17	47.22	90.76	-1,060.71	-1,580.60	6,742.58	6,640.07	102.50	65.779		
12,700.00	7,870.00	10,282.46	7,948.80	112.19	48.29	90.75	-1,137.11	-1,581.37	6,743.24	6,638.80	104.44	64.565		
12,800.00	7,870.00	10,413.20	7,948.64	112.23	50.14	90.75	-1,267.84	-1,582.59	6,743.83	6,636.62	107.21	62.901		
12,900.00	7,870.00	10,542.64	7,947.66	112.28	52.01	90.74	-1,397.28	-1,583.21	6,743.97	6,633.91	110.06	61.276		
13,000.00	7,870.00	10,680.25	7,947.39	112.36	54.04	90.74	-1,534.89	-1,583.32	6,743.75	6,630.62	113.13	59.610		
13,100.00	7,870.00	10,843.65	7,951.45	112.45	56.50	90.78	-1,698.23	-1,581.54	6,742.18	6,625.43	116.75	57.749		
13,200.00	7,870.00	10,899.00	7,952.07	112.56	57.34	90.78	-1,753.57	-1,581.06	6,740.95	6,622.34	118.62	56.830		
13,300.00	7,870.00	13,300.00	7,951.22	112.68	94.35	90.78	-1,921.76	-1,579.09	6,739.38	6,582.47	156.91	42.950		
13,400.00	7,870.00	13,400.00	7,951.90	112.83	96.46	90.78	-2,060.68	-1,576.78	6,737.48	6,577.19	160.29	42.032		
13,500.00	7,870.00	11,298.26	7,953.96	113.00	63.52	90.80	-2,152.72	-1,574.49	6,734.71	6,606.20	128.51	52.406		
13,600.00	7,870.00	11,344.00	7,954.85	113.19	64.24	90.81	-2,198.45	-1,573.90	6,732.91	6,602.59	130.31	51.668		
13,700.00	7,870.00	11,441.39	7,955.93	113.40	65.77	90.82	-2,295.83	-1,573.09	6,731.74	6,598.65	133.09	50.582		
13,800.00	7,870.00	11,563.19	7,957.13	113.63	67.71	90.83	-2,417.60	-1,570.94	6,729.57	6,593.21	136.36	49.351		
13,900.00	7,870.00	11,612.82	7,958.39	113.89	68.51	90.84	-2,467.22	-1,570.36	6,728.09	6,589.81	138.28	48.655		
14,000.00	7,870.00	11,806.99	7,959.98	114.18	71.63	90.85	-2,661.34	-1,567.51	6,726.33	6,583.28	143.04	47.023		
14,100.00	7,870.00	11,879.00	7,958.45	114.48	72.80	90.84	-2,733.32	-1,566.00	6,723.90	6,578.47	145.44	46.232		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 184-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,870.00	11,942.44	7,956.29	114.82	73.83	90.82	-2,796.71	-1,564.98	6,721.98	6,574.31	147.67	45.521		
14,300.00	7,870.00	11,968.00	7,955.32	115.18	74.24	90.81	-2,822.25	-1,564.73	6,720.88	6,571.73	149.14	45.063		
14,365.31	7,870.00	11,998.68	7,954.16	115.43	74.74	90.80	-2,852.91	-1,564.68	6,720.64	6,570.25	150.39	44.689		
14,400.00	7,870.00	12,007.83	7,953.83	115.57	74.89	90.80	-2,862.06	-1,564.73	6,720.73	6,569.83	150.90	44.538		
14,500.00	7,870.00	12,057.00	7,952.25	115.99	75.69	90.79	-2,911.19	-1,565.64	6,721.87	6,569.02	152.84	43.978		
14,600.00	7,870.00	12,066.27	7,951.98	116.44	75.84	90.78	-2,920.45	-1,565.91	6,723.81	6,569.84	153.97	43.670		
14,700.00	7,870.00	12,134.68	7,949.93	116.92	76.95	90.77	-2,988.80	-1,568.08	6,726.60	6,570.29	156.31	43.035		
14,800.00	7,870.00	12,194.46	7,948.40	117.44	77.92	90.75	-3,048.51	-1,570.27	6,729.91	6,571.44	158.47	42.468		
14,900.00	7,870.00	12,376.70	7,945.97	117.98	80.90	90.73	-3,230.63	-1,576.46	6,732.98	6,569.75	163.23	41.248		
15,000.00	7,870.00	12,621.16	7,952.15	118.56	84.93	90.78	-3,474.95	-1,579.80	6,733.66	6,564.23	169.43	39.743		
15,100.00	7,870.00	12,680.00	7,955.27	119.17	85.91	90.81	-3,533.70	-1,580.62	6,734.56	6,562.89	171.67	39.231		
15,200.00	7,870.00	12,680.00	7,955.27	119.81	85.91	90.81	-3,533.70	-1,580.62	6,736.17	6,563.57	172.60	39.028		
15,300.00	7,870.00	12,742.14	7,957.96	120.48	86.94	90.83	-3,595.75	-1,582.31	6,738.69	6,563.80	174.89	38.530		
15,400.00	7,870.00	12,830.52	7,959.08	121.19	88.40	90.84	-3,684.07	-1,585.40	6,741.85	6,564.09	177.76	37.927		
15,500.00	7,870.00	12,937.75	7,958.56	121.93	90.18	90.84	-3,791.25	-1,588.97	6,744.84	6,563.78	181.05	37.253		
15,600.00	7,870.00	13,081.28	7,956.14	122.71	92.57	90.82	-3,934.68	-1,593.20	6,747.39	6,562.22	185.17	36.438		
15,700.00	7,870.00	13,276.48	7,952.61	123.52	95.84	90.79	-4,129.81	-1,596.54	6,748.48	6,557.99	190.48	35.428		
15,800.00	7,870.00	13,335.03	7,953.20	124.36	96.82	90.79	-4,188.35	-1,597.44	6,749.69	6,556.95	192.74	35.019		
15,900.00	7,870.00	13,651.87	7,957.98	125.23	102.17	90.83	-4,505.10	-1,597.89	6,749.31	6,548.41	200.90	33.595		
16,000.00	7,870.00	13,758.29	7,962.32	126.14	103.98	90.87	-4,611.42	-1,596.38	6,747.61	6,543.29	204.32	33.025		
16,100.00	7,870.00	13,960.77	7,966.96	127.07	107.43	90.91	-4,813.76	-1,590.81	6,744.02	6,534.09	209.93	32.125		
16,200.00	7,870.00	13,984.86	7,967.36	128.04	107.84	90.91	-4,837.84	-1,590.22	6,741.29	6,529.81	211.48	31.876		
16,300.00	7,870.00	14,017.00	7,968.03	129.04	108.39	90.92	-4,869.97	-1,589.87	6,739.71	6,526.51	213.20	31.612		
16,400.00	7,870.00	14,051.35	7,968.84	130.06	108.98	90.93	-4,904.30	-1,589.83	6,739.13	6,524.17	214.96	31.350		
16,425.19	7,870.00	14,064.33	7,969.14	130.32	109.20	90.93	-4,917.29	-1,589.85	6,739.11	6,523.60	215.50	31.271		
16,500.00	7,870.00	14,106.00	7,970.14	131.11	109.91	90.94	-4,958.94	-1,590.10	6,739.31	6,522.13	217.18	31.030		
16,600.00	7,870.00	14,176.29	7,971.69	132.19	111.10	90.95	-5,029.21	-1,590.84	6,740.05	6,520.29	219.77	30.669		
16,700.00	7,870.00	14,263.37	7,972.88	133.29	112.59	90.96	-5,116.27	-1,592.03	6,741.11	6,518.36	222.75	30.263		
16,800.00	7,870.00	14,336.37	7,973.19	134.42	113.83	90.96	-5,189.26	-1,593.21	6,742.40	6,517.00	225.40	29.913		
16,900.00	7,870.00	14,539.09	7,978.33	135.57	117.29	91.01	-5,391.89	-1,595.31	6,743.13	6,511.97	231.16	29.171		
17,000.00	7,870.00	14,640.00	7,980.33	136.75	119.02	91.02	-5,492.78	-1,595.17	6,742.68	6,508.18	234.50	28.753		
17,045.53	7,870.00	14,670.27	7,980.65	137.29	119.54	91.03	-5,523.05	-1,595.15	6,742.58	6,506.93	235.65	28.613		
17,100.00	7,870.00	14,685.13	7,980.88	137.94	119.79	91.03	-5,537.90	-1,595.27	6,742.86	6,506.35	236.51	28.510		
17,200.00	7,870.00	14,730.00	7,981.85	139.16	120.56	91.04	-5,582.76	-1,596.16	6,744.29	6,505.79	238.50	28.278		
17,300.00	7,870.00	15,027.98	7,989.52	140.39	125.67	91.10	-5,880.55	-1,598.16	6,745.12	6,498.52	246.60	27.352		
17,400.00	7,870.00	15,086.00	7,989.84	141.65	126.67	91.10	-5,938.57	-1,597.90	6,744.26	6,495.31	248.95	27.091		
17,500.00	7,870.00	17,500.00	7,993.11	142.92	168.36	91.13	-6,113.17	-1,596.23	6,742.99	6,450.19	292.80	23.030		
17,600.00	7,870.00	15,264.00	7,993.18	144.21	129.74	91.13	-6,116.52	-1,596.18	6,741.88	6,486.75	255.13	26.425		
17,700.00	7,870.00	15,317.65	7,993.85	145.52	130.66	91.14	-6,170.17	-1,595.81	6,741.34	6,483.97	257.36	26.194		
17,741.42	7,870.00	15,612.84	7,998.50	146.07	135.76	91.18	-6,465.22	-1,592.49	6,741.08	6,476.23	264.85	25.453		
17,800.00	7,870.00	15,656.55	7,999.53	146.84	136.52	91.19	-6,508.90	-1,591.16	6,739.13	6,472.64	266.48	25.289		
17,900.00	7,870.00	15,740.75	8,001.10	148.18	137.98	91.20	-6,593.05	-1,588.85	6,736.08	6,466.58	269.50	24.995		
18,000.00	7,870.00	15,830.26	8,004.76	149.54	139.53	91.23	-6,682.46	-1,586.41	6,733.10	6,460.46	272.65	24.695		
18,100.00	7,870.00	16,100.00	8,009.51	150.90	179.01	91.27	-6,797.53	-1,583.42	6,730.27	6,416.35	313.93	21.439		
18,200.00	7,870.00	16,066.00	8,013.49	152.28	143.63	91.31	-6,917.92	-1,579.42	6,726.62	6,446.31	280.31	23.997		
18,300.00	7,870.00	16,116.29	8,014.90	153.67	144.51	91.32	-6,968.17	-1,577.93	6,723.51	6,440.98	282.53	23.798		
18,400.00	7,870.00	16,155.00	8,016.36	155.07	145.18	91.33	-7,006.84	-1,577.20	6,721.36	6,436.91	284.45	23.629		
18,500.00	7,870.00	16,202.78	8,018.30	156.49	146.01	91.35	-7,054.58	-1,576.70	6,720.05	6,433.48	286.57	23.450		
18,600.00	7,870.00	16,351.91	8,023.52	157.91	148.60	91.39	-7,203.62	-1,575.62	6,719.24	6,428.05	291.19	23.075		
18,700.00	7,870.00	16,443.53	8,025.42	159.35	150.19	91.41	-7,295.21	-1,574.42	6,717.64	6,423.25	294.39	22.819		
18,800.00	7,870.00	16,531.16	8,026.04	160.79	151.71	91.42	-7,382.83	-1,573.41	6,716.18	6,418.68	297.49	22.576		
18,900.00	7,870.00	16,601.00	8,025.59	162.25	152.93	91.41	-7,452.66	-1,572.83	6,715.01	6,414.85	300.16	22.372		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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	
19,000.00	7,870.00	16,643.53	8,025.31	163.71	153.66	91.41	-7,495.19	-1,572.75	6,714.51	6,412.38	302.13	22.224	
19,004.96	7,870.00	16,645.47	8,025.31	163.78	153.70	91.41	-7,497.14	-1,572.76	6,714.51	6,412.28	302.22	22.217	
19,100.00	7,870.00	16,690.00	8,025.59	165.18	154.47	91.41	-7,541.66	-1,573.13	6,714.92	6,410.74	304.19	22.075	
19,200.00	7,870.00	16,732.51	8,026.12	166.66	155.20	91.42	-7,584.16	-1,573.82	6,716.16	6,410.04	306.12	21.939	
19,300.00	7,870.00	16,905.30	8,029.14	168.15	158.20	91.44	-7,756.89	-1,576.60	6,717.66	6,406.27	311.39	21.573	
19,400.00	7,870.00	17,057.74	8,034.33	169.65	160.85	91.49	-7,909.24	-1,577.47	6,718.08	6,401.95	316.14	21.251	
19,500.00	7,870.00	17,161.34	8,036.19	171.15	162.65	91.50	-8,012.82	-1,577.48	6,717.81	6,398.16	319.65	21.016	
19,600.00	7,870.00	17,241.24	8,036.87	172.66	164.04	91.51	-8,092.72	-1,577.56	6,717.60	6,395.03	322.56	20.826	
19,601.28	7,870.00	17,241.95	8,036.87	172.68	164.05	91.51	-8,093.44	-1,577.56	6,717.60	6,395.00	322.59	20.824	
19,700.00	7,870.00	17,297.60	8,036.86	174.18	165.02	91.51	-8,149.08	-1,577.92	6,717.91	6,393.04	324.88	20.678	
19,800.00	7,870.00	17,452.88	8,034.23	175.70	167.71	91.49	-8,304.33	-1,578.96	6,718.23	6,388.54	329.69	20.377	
19,889.26	7,870.00	17,550.53	8,031.25	177.06	169.41	91.46	-8,401.93	-1,579.08	6,717.97	6,385.02	332.96	20.177 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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	-55.39	787.25	-1,140.97	1,386.25					
100.00	100.00	97.23	97.23	0.13	0.15	-55.40	787.07	-1,140.80	1,385.98	1,385.70	0.28	4,937.845		
200.00	200.00	197.71	197.71	0.49	0.42	-55.40	786.58	-1,140.34	1,385.33	1,384.42	0.91	1,522.481		
300.00	300.00	293.26	293.26	0.85	0.76	-55.41	786.30	-1,140.08	1,384.94	1,383.33	1.61	859.805		
310.37	310.37	303.17	303.17	0.89	0.80	-123.55	786.28	-1,140.06	1,384.93	1,383.24	1.68	822.889	CC, ES	
400.00	399.98	393.38	393.38	1.21	1.12	-123.60	786.18	-1,139.92	1,385.71	1,383.38	2.32	596.738		
500.00	499.84	495.00	494.99	1.56	1.48	-123.73	786.10	-1,139.59	1,388.30	1,385.26	3.04	456.660		
600.00	599.45	568.86	568.86	1.93	1.74	-123.86	786.39	-1,139.62	1,393.49	1,389.83	3.66	380.513		
700.00	698.70	634.86	634.82	2.32	1.96	-123.94	788.13	-1,140.57	1,403.00	1,398.74	4.26	329.151		
800.00	797.47	698.94	698.77	2.72	2.18	-123.94	792.12	-1,141.77	1,416.84	1,411.97	4.87	290.919		
900.00	895.62	763.00	762.50	3.16	2.40	-123.88	798.22	-1,143.60	1,435.18	1,429.68	5.50	261.110		
1,000.00	993.06	841.38	840.29	3.63	2.69	-123.85	807.45	-1,146.42	1,457.33	1,451.13	6.20	235.064		
1,100.00	1,089.64	932.61	930.70	4.14	3.03	-123.89	819.17	-1,149.71	1,482.07	1,475.09	6.98	212.260		
1,200.00	1,185.27	1,020.57	1,017.81	4.70	3.37	-123.95	830.95	-1,152.99	1,509.19	1,501.40	7.79	193.823		
1,300.00	1,279.82	1,104.44	1,100.76	5.31	3.70	-124.01	842.85	-1,156.29	1,538.91	1,530.30	8.61	178.764		
1,400.00	1,373.17	1,197.05	1,192.32	5.97	4.08	-124.16	856.20	-1,160.18	1,571.01	1,561.51	9.50	165.304		
1,500.00	1,465.21	1,294.54	1,288.83	6.69	4.47	-124.44	869.17	-1,164.66	1,605.02	1,594.56	10.45	153.534		
1,600.00	1,555.84	1,384.93	1,378.38	7.47	4.84	-124.70	880.86	-1,168.77	1,641.02	1,629.61	11.41	143.857		
1,700.00	1,644.94	1,467.49	1,459.94	8.31	5.19	-124.84	893.30	-1,171.75	1,679.41	1,667.04	12.37	135.804		
1,800.00	1,732.39	1,543.38	1,534.72	9.23	5.51	-124.86	905.98	-1,174.30	1,720.49	1,707.16	13.33	129.040		
1,900.00	1,818.11	1,659.61	1,649.23	10.21	6.02	-125.32	925.65	-1,177.04	1,762.98	1,748.44	14.55	121.194		
2,000.00	1,901.97	1,731.22	1,719.80	11.26	6.33	-125.31	937.71	-1,178.59	1,807.62	1,792.06	15.56	116.158		
2,100.00	1,983.88	1,795.42	1,783.03	12.38	6.61	-125.20	948.65	-1,180.55	1,855.26	1,838.70	16.56	112.024		
2,200.00	2,063.74	1,928.10	1,913.83	13.57	7.18	-125.97	970.59	-1,184.08	1,904.86	1,886.89	17.97	106.020		
2,300.00	2,141.45	2,036.32	2,021.10	14.84	7.63	-126.54	984.85	-1,185.34	1,954.39	1,935.15	19.24	101.563		
2,327.78	2,162.65	2,058.21	2,042.82	15.21	7.72	-126.59	987.51	-1,185.58	1,968.52	1,948.96	19.56	100.656		
2,400.00	2,217.51	2,110.09	2,094.32	16.17	7.93	-127.34	993.75	-1,186.21	2,005.68	1,985.34	20.34	98.613		
2,500.00	2,293.49	2,177.44	2,161.17	17.51	8.20	-128.27	1,001.80	-1,187.34	2,058.01	2,036.62	21.38	96.241		
2,600.00	2,369.47	2,244.59	2,227.82	18.86	8.48	-129.18	1,009.92	-1,188.77	2,111.32	2,088.90	22.41	94.203		
2,700.00	2,445.45	2,320.95	2,303.60	20.22	8.79	-130.16	1,019.19	-1,190.62	2,165.42	2,141.94	23.48	92.236		
2,800.00	2,521.42	2,394.19	2,376.32	21.59	9.08	-131.08	1,027.70	-1,192.53	2,220.05	2,195.55	24.51	90.595		
2,900.00	2,597.40	2,468.93	2,450.57	22.97	9.38	-132.00	1,035.89	-1,194.79	2,275.35	2,249.82	25.52	89.150		
3,000.00	2,673.38	2,546.95	2,528.09	24.34	9.70	-132.92	1,044.38	-1,197.13	2,331.09	2,304.54	26.54	87.819		
3,100.00	2,749.36	2,619.76	2,600.46	25.73	9.99	-133.75	1,052.13	-1,199.37	2,387.29	2,359.77	27.52	86.752		
3,200.00	2,825.33	2,718.33	2,698.48	27.11	10.37	-134.84	1,061.94	-1,202.41	2,443.83	2,415.20	28.63	85.365		
3,300.00	2,901.31	2,863.58	2,842.98	28.50	10.94	-136.33	1,076.61	-1,203.76	2,499.14	2,469.13	30.01	83.284		
3,400.00	2,977.29	2,947.88	2,926.62	29.90	11.28	-137.09	1,086.99	-1,202.54	2,553.38	2,522.34	31.04	82.248		
3,500.00	3,053.27	3,008.00	2,986.21	31.29	11.53	-137.60	1,094.98	-1,202.08	2,608.58	2,576.65	31.93	81.697		
3,600.00	3,129.24	3,060.94	3,038.66	32.69	11.75	-138.03	1,102.14	-1,202.11	2,664.71	2,631.95	32.76	81.351		
3,700.00	3,205.22	3,133.68	3,110.75	34.08	12.05	-138.62	1,111.86	-1,202.47	2,721.46	2,687.76	33.70	80.760		
3,800.00	3,281.20	3,209.73	3,186.13	35.48	12.36	-139.21	1,121.92	-1,202.91	2,778.50	2,743.84	34.65	80.183		
3,900.00	3,357.18	3,314.60	3,290.13	36.88	12.79	-140.00	1,135.40	-1,203.16	2,835.45	2,799.66	35.79	79.230		
4,000.00	3,433.15	3,393.08	3,368.07	38.29	13.11	-140.59	1,144.53	-1,203.16	2,892.26	2,855.53	36.73	78.751		
4,100.00	3,509.13	3,442.77	3,417.45	39.69	13.30	-140.96	1,150.12	-1,203.41	2,949.63	2,912.17	37.46	78.732		
4,200.00	3,585.11	3,482.00	3,456.41	41.09	13.46	-141.24	1,154.62	-1,203.93	3,007.99	2,969.87	38.12	78.914		
4,300.00	3,661.08	3,531.10	3,505.12	42.50	13.67	-141.58	1,160.80	-1,205.05	3,067.36	3,028.52	38.83	78.987		
4,400.00	3,737.06	3,572.30	3,545.86	43.90	13.84	-141.84	1,166.71	-1,206.43	3,127.82	3,088.33	39.49	79.215		
4,500.00	3,813.04	3,669.92	3,642.44	45.31	14.25	-142.45	1,180.44	-1,209.95	3,188.61	3,148.06	40.56	78.623		
4,600.00	3,889.02	3,774.18	3,745.93	46.71	14.68	-143.12	1,192.63	-1,213.11	3,248.86	3,207.22	41.64	78.029		
4,700.00	3,964.99	3,853.09	3,824.33	48.12	14.99	-143.61	1,201.36	-1,215.29	3,309.02	3,266.50	42.52	77.816		
4,800.00	4,040.97	3,941.25	3,911.76	49.53	15.36	-144.12	1,212.56	-1,217.35	3,369.17	3,325.68	43.49	77.465		
4,900.00	4,116.95	4,015.72	3,985.58	50.94	15.67	-144.53	1,222.15	-1,219.01	3,429.37	3,385.01	44.36	77.303		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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	4,192.93	4,096.98	4,066.33	52.35	15.99	-144.99	1,231.02	-1,220.94	3,489.66	3,444.41	45.25	77.116		
5,100.00	4,268.90	4,176.84	4,145.80	53.76	16.30	-145.45	1,238.70	-1,222.84	3,550.01	3,503.89	46.11	76.985		
5,200.00	4,344.88	4,256.28	4,224.73	55.16	16.62	-145.87	1,247.49	-1,224.56	3,610.42	3,563.43	46.99	76.842		
5,300.00	4,420.86	4,325.02	4,292.97	56.57	16.90	-146.21	1,255.70	-1,226.02	3,670.97	3,623.19	47.78	76.827		
5,400.00	4,496.84	4,388.62	4,356.17	57.98	17.16	-146.53	1,262.62	-1,227.64	3,731.90	3,683.37	48.53	76.896		
5,500.00	4,572.81	4,455.51	4,422.55	59.39	17.43	-146.85	1,270.63	-1,229.50	3,793.17	3,743.85	49.31	76.922		
5,600.00	4,648.79	4,535.35	4,501.61	60.81	17.76	-147.19	1,281.50	-1,231.76	3,854.66	3,804.46	50.20	76.783		
5,700.00	4,724.77	4,630.41	4,595.93	62.22	18.15	-147.61	1,293.03	-1,234.20	3,915.96	3,864.76	51.19	76.492		
5,800.00	4,800.74	4,704.96	4,669.97	63.63	18.46	-147.94	1,301.64	-1,235.90	3,977.11	3,925.08	52.02	76.451		
5,900.00	4,876.72	4,766.80	4,731.20	65.04	18.71	-148.17	1,310.18	-1,237.46	4,038.61	3,985.84	52.77	76.537		
6,000.00	4,952.70	4,854.81	4,818.27	66.45	19.09	-148.50	1,322.78	-1,239.67	4,100.19	4,046.46	53.73	76.310		
6,100.00	5,028.68	4,927.81	4,890.60	67.86	19.39	-148.77	1,332.43	-1,241.50	4,161.79	4,107.23	54.56	76.284		
6,200.00	5,104.65	5,002.36	4,964.57	69.27	19.70	-149.05	1,341.49	-1,243.44	4,223.51	4,168.13	55.38	76.264		
6,300.00	5,180.63	5,085.03	5,046.69	70.69	20.03	-149.37	1,350.74	-1,245.61	4,285.29	4,229.03	56.25	76.181		
6,400.00	5,256.61	5,166.47	5,127.68	72.10	20.35	-149.69	1,359.12	-1,247.63	4,347.00	4,289.90	57.10	76.127		
6,500.00	5,332.59	5,240.72	5,201.45	73.51	20.65	-149.97	1,367.29	-1,249.43	4,408.77	4,350.86	57.90	76.139		
6,600.00	5,408.56	5,316.68	5,276.85	74.92	20.96	-150.23	1,376.34	-1,251.35	4,470.68	4,411.95	58.73	76.125		
6,700.00	5,484.54	5,437.19	5,396.46	76.34	21.45	-150.63	1,390.81	-1,253.89	4,532.40	4,472.50	59.91	75.656		
6,800.00	5,560.52	5,535.36	5,493.76	77.75	21.86	-150.92	1,403.82	-1,254.99	4,593.35	4,532.42	60.93	75.391		
6,900.00	5,636.50	5,618.30	5,576.10	79.16	22.19	-151.18	1,413.65	-1,255.84	4,654.27	4,592.47	61.80	75.308		
7,000.00	5,712.47	5,683.16	5,640.62	80.57	22.45	-151.40	1,420.30	-1,256.49	4,715.24	4,652.72	62.52	75.417		
7,100.00	5,788.45	5,739.00	5,696.10	81.99	22.67	-151.57	1,426.58	-1,257.32	4,776.64	4,713.46	63.18	75.610		
7,200.00	5,864.43	5,823.42	5,779.98	83.40	23.01	-151.82	1,436.07	-1,258.72	4,838.21	4,774.16	64.05	75.536		
7,300.00	5,940.40	5,871.65	5,827.93	84.81	23.20	-151.97	1,441.05	-1,259.58	4,899.96	4,835.32	64.63	75.812		
7,400.00	6,016.38	5,917.25	5,873.30	86.23	23.38	-152.11	1,445.53	-1,260.69	4,962.24	4,897.05	65.19	76.123		
7,500.00	6,092.36	6,032.71	5,987.96	87.64	23.85	-152.44	1,458.77	-1,263.38	5,024.47	4,958.15	66.32	75.766		
7,600.00	6,168.34	6,113.94	6,068.53	89.05	24.18	-152.64	1,469.05	-1,264.89	5,086.38	5,019.20	67.18	75.709		
7,700.00	6,244.31	6,166.93	6,121.15	90.47	24.40	-152.78	1,475.15	-1,266.02	5,148.56	5,080.75	67.81	75.930		
7,800.00	6,320.29	6,245.06	6,198.83	91.88	24.71	-153.00	1,483.32	-1,267.91	5,211.01	5,142.39	68.62	75.940		
7,900.00	6,396.27	6,322.94	6,276.20	93.30	25.02	-153.20	1,492.00	-1,269.69	5,273.39	5,203.95	69.44	75.941		
8,000.00	6,472.25	6,386.46	6,339.19	94.71	25.28	-153.35	1,500.05	-1,271.22	5,335.89	5,265.74	70.16	76.057		
8,100.00	6,548.22	6,439.37	6,391.65	96.12	25.50	-153.47	1,506.82	-1,272.71	5,398.73	5,327.94	70.79	76.268		
8,200.00	6,624.20	6,484.43	6,436.34	97.54	25.69	-153.57	1,512.40	-1,274.20	5,461.97	5,390.63	71.34	76.561		
8,300.00	6,700.18	6,541.00	6,492.49	98.95	25.92	-153.71	1,518.87	-1,276.46	5,525.75	5,453.77	71.98	76.763		
8,400.00	6,776.16	6,591.01	6,542.19	100.37	26.11	-153.83	1,523.92	-1,278.64	5,589.85	5,517.30	72.56	77.042		
8,500.00	6,852.13	6,661.23	6,612.11	101.78	26.38	-154.02	1,529.77	-1,281.66	5,654.06	5,580.79	73.27	77.165		
8,600.00	6,928.11	6,727.30	6,677.94	103.20	26.63	-154.21	1,534.37	-1,284.59	5,718.44	5,644.50	73.94	77.339		
8,700.00	7,004.09	6,818.16	6,768.59	104.61	26.96	-154.48	1,539.32	-1,288.48	5,782.81	5,708.03	74.77	77.339		
8,800.00	7,080.06	6,894.00	6,844.92	106.02	32.84	-155.03	1,540.70	-1,293.66	5,846.63	5,765.31	81.32	71.898		
8,900.00	7,156.04	6,969.00	6,919.19	107.44	27.49	-155.06	1,540.51	-1,293.85	5,910.30	5,834.11	76.19	77.573		
9,000.00	7,232.02	7,033.60	6,983.46	108.85	27.59	-155.28	1,535.13	-1,294.68	5,974.06	5,897.52	76.54	78.051		
9,104.68	7,311.55	7,076.00	7,025.14	110.33	27.68	-155.52	1,527.62	-1,296.52	6,042.45	5,965.60	76.85	78.627		
9,150.00	7,346.29	7,076.00	7,025.14	110.97	27.68	-164.68	1,527.62	-1,296.52	6,072.20	5,995.29	76.91	78.954		
9,200.00	7,385.15	7,200.00	7,039.48	111.65	31.35	-175.28	1,524.04	-1,297.09	6,105.41	6,025.04	80.37	75.966		
9,250.00	7,424.29	7,250.00	7,074.72	112.31	31.45	173.91	1,515.24	-1,298.47	6,138.62	6,058.10	80.51	76.243		
9,300.00	7,463.40	7,300.00	7,110.95	112.93	31.56	163.27	1,506.20	-1,299.89	6,171.51	6,090.87	80.64	76.530		
9,350.00	7,502.19	7,201.85	7,146.57	113.51	27.87	153.04	1,495.13	-1,300.88	6,203.57	6,126.30	77.27	80.283		
9,400.00	7,540.36	7,212.61	7,156.73	114.04	27.88	143.44	1,491.61	-1,301.24	6,235.17	6,157.91	77.26	80.705		
9,450.00	7,577.62	7,223.46	7,166.93	114.53	27.90	134.58	1,487.92	-1,301.64	6,265.89	6,188.66	77.23	81.134		
9,500.00	7,613.70	7,255.00	7,196.25	114.95	27.93	126.60	1,476.39	-1,303.01	6,295.63	6,218.43	77.20	81.547		
9,550.00	7,648.30	7,255.00	7,196.25	115.32	27.93	119.41	1,476.39	-1,303.01	6,323.85	6,246.71	77.14	81.981		
9,600.00	7,681.18	7,255.00	7,196.25	115.63	27.93	113.04	1,476.39	-1,303.01	6,350.63	6,273.56	77.07	82.404		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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		
9,650.00	7,712.08	7,255.00	7,196.25	115.88	27.93	107.46	1,476.39	-1,303.01	6,375.79	6,298.80	76.99	82.808		
9,700.00	7,740.76	7,255.00	7,196.25	116.08	27.93	102.62	1,476.39	-1,303.01	6,399.16	6,322.23	76.93	83.186		
9,750.00	7,767.01	7,255.00	7,196.25	116.23	27.93	98.46	1,476.39	-1,303.01	6,420.58	6,343.71	76.86	83.531		
9,800.00	7,790.63	7,255.00	7,196.25	116.33	27.93	94.92	1,476.39	-1,303.01	6,439.90	6,363.09	76.82	83.836		
9,850.00	7,811.44	7,289.99	7,228.33	116.38	27.96	92.18	1,462.61	-1,305.11	6,456.49	6,379.68	76.81	84.061		
9,900.00	7,829.28	7,296.10	7,233.91	116.38	27.97	89.79	1,460.13	-1,305.56	6,471.07	6,394.27	76.80	84.256		
9,950.00	7,844.01	7,301.90	7,239.18	116.35	27.97	87.90	1,457.76	-1,306.00	6,483.21	6,406.38	76.82	84.391		
10,000.00	7,855.52	7,307.33	7,244.11	116.28	27.98	86.46	1,455.53	-1,306.44	6,492.82	6,415.95	76.87	84.461		
10,050.00	7,863.72	7,344.00	7,277.15	116.18	28.01	85.69	1,440.00	-1,309.91	6,500.28	6,423.31	76.97	84.456		
10,100.00	7,868.56	7,344.00	7,277.15	116.06	28.01	85.07	1,440.00	-1,309.91	6,504.59	6,427.51	77.08	84.387		
10,145.94	7,870.00	7,344.00	7,277.15	115.92	28.01	84.86	1,440.00	-1,309.91	6,506.26	6,429.04	77.22	84.261		
10,200.00	7,870.00	7,968.00	7,648.53	115.76	28.22	88.13	968.07	-1,325.12	6,505.53	6,430.55	74.97	86.772		
10,300.00	7,870.00	8,016.58	7,655.75	115.46	28.30	88.20	920.08	-1,322.76	6,500.28	6,425.21	75.06	86.597		
10,400.00	7,870.00	8,057.00	7,660.81	115.18	28.37	88.24	880.00	-1,321.72	6,496.57	6,421.34	75.23	86.352		
10,500.00	7,870.00	10,500.00	7,669.07	114.91	35.89	88.31	803.51	-1,319.82	6,493.39	6,412.00	81.39	79.778		
10,600.00	7,870.00	8,203.42	7,674.36	114.65	28.79	88.36	734.30	-1,317.91	6,490.21	6,414.71	75.50	85.968		
10,700.00	7,870.00	8,249.83	7,675.14	114.41	28.96	88.37	687.90	-1,317.09	6,488.00	6,412.19	75.82	85.574		
10,800.00	7,870.00	8,324.00	7,675.31	114.17	29.27	88.37	613.74	-1,316.13	6,486.37	6,410.25	76.12	85.211		
10,900.00	7,870.00	8,406.28	7,675.42	113.95	29.68	88.37	531.46	-1,315.34	6,485.07	6,408.55	76.53	84.743		
11,000.00	7,870.00	11,000.00	7,676.06	113.75	47.55	88.37	383.04	-1,313.75	6,483.71	6,390.27	93.44	69.386		
11,100.00	7,870.00	8,709.53	7,676.15	113.55	31.76	88.37	228.27	-1,310.04	6,480.76	6,402.80	77.96	83.132		
11,200.00	7,870.00	8,769.00	7,675.72	113.37	32.25	88.37	168.81	-1,308.90	6,478.44	6,399.68	78.76	82.259		
11,300.00	7,870.00	8,799.58	7,675.56	113.20	32.52	88.37	138.24	-1,308.57	6,476.91	6,397.38	79.52	81.449		
11,400.00	7,870.00	8,858.00	7,676.16	113.04	33.04	88.37	79.82	-1,308.53	6,476.34	6,395.91	80.43	80.521		
11,500.00	7,870.00	11,500.00	7,678.59	112.89	59.67	88.39	-78.11	-1,307.92	6,475.64	6,368.66	106.98	60.534		
11,600.00	7,870.00	9,169.65	7,679.09	112.76	36.23	88.40	-231.78	-1,305.36	6,473.48	6,389.71	83.77	77.278		
11,700.00	7,870.00	9,236.52	7,679.62	112.64	36.98	88.40	-298.64	-1,304.29	6,471.55	6,386.50	85.04	76.099		
11,800.00	7,870.00	9,304.00	7,680.16	112.53	37.76	88.41	-366.12	-1,303.75	6,470.31	6,383.93	86.38	74.909		
11,900.00	7,870.00	9,394.45	7,680.46	112.44	38.84	88.41	-456.56	-1,303.30	6,469.45	6,381.46	87.99	73.526		
12,000.00	7,870.00	9,435.14	7,680.70	112.36	39.34	88.41	-497.25	-1,303.24	6,468.93	6,379.75	89.18	72.536		
12,007.23	7,870.00	9,438.15	7,680.73	112.35	39.38	88.41	-500.26	-1,303.25	6,468.93	6,379.66	89.27	72.463		
12,100.00	7,870.00	9,482.00	7,681.49	112.29	39.92	88.42	-544.11	-1,303.62	6,469.32	6,378.86	90.46	71.513		
12,200.00	7,870.00	9,583.12	7,684.39	112.24	41.20	88.44	-645.18	-1,304.90	6,470.17	6,377.79	92.38	70.036		
12,300.00	7,870.00	9,692.46	7,688.11	112.20	42.63	88.48	-754.45	-1,306.17	6,470.92	6,376.41	94.51	68.471		
12,400.00	7,870.00	9,819.85	7,692.88	112.17	44.35	88.52	-881.75	-1,307.15	6,471.24	6,374.28	96.96	66.743		
12,500.00	7,870.00	9,883.37	7,695.04	112.16	45.22	88.54	-945.22	-1,307.65	6,471.63	6,372.98	98.65	65.602		
12,600.00	7,870.00	9,939.20	7,695.72	112.17	45.99	88.55	-1,001.04	-1,308.47	6,472.72	6,372.46	100.26	64.559		
12,700.00	7,870.00	10,002.49	7,695.72	112.19	46.87	88.55	-1,064.32	-1,309.76	6,474.43	6,372.43	102.00	63.476		
12,800.00	7,870.00	10,138.67	7,694.38	112.23	48.81	88.53	-1,200.46	-1,312.65	6,476.28	6,371.46	104.82	61.785		
12,900.00	7,870.00	10,249.57	7,692.43	112.28	50.41	88.52	-1,311.33	-1,314.31	6,477.47	6,370.10	107.36	60.333		
13,000.00	7,870.00	10,401.02	7,688.33	112.36	52.65	88.48	-1,462.72	-1,316.04	6,478.35	6,367.74	110.62	58.566		
13,100.00	7,870.00	10,483.89	7,686.66	112.45	53.89	88.47	-1,545.56	-1,316.81	6,478.99	6,366.14	112.85	57.410		
13,200.00	7,870.00	10,596.21	7,688.96	112.56	55.59	88.49	-1,657.84	-1,317.97	6,479.64	6,363.99	115.65	56.028		
13,300.00	7,870.00	10,785.30	7,693.28	112.68	58.49	88.53	-1,846.85	-1,318.61	6,479.66	6,359.79	119.87	54.055		
13,400.00	7,870.00	10,944.71	7,689.20	112.83	60.98	88.49	-2,006.20	-1,316.97	6,478.35	6,354.70	123.65	52.393		
13,500.00	7,870.00	11,034.23	7,685.53	113.00	62.39	88.46	-2,095.63	-1,315.49	6,476.50	6,350.29	126.21	51.317		
13,600.00	7,870.00	11,093.88	7,683.94	113.19	63.33	88.44	-2,155.26	-1,314.92	6,475.26	6,347.03	128.24	50.495		
13,700.00	7,870.00	11,202.60	7,681.71	113.40	65.06	88.42	-2,263.95	-1,313.94	6,474.06	6,342.85	131.22	49.339		
13,800.00	7,870.00	11,264.00	7,680.65	113.63	66.04	88.41	-2,325.34	-1,313.63	6,473.27	6,339.96	133.32	48.556		
13,900.00	7,870.00	11,519.68	7,679.72	113.89	70.16	88.40	-2,580.97	-1,309.90	6,471.36	6,332.06	139.30	46.457		
14,000.00	7,870.00	11,531.00	7,679.87	114.18	70.35	88.40	-2,592.29	-1,309.61	6,469.05	6,328.60	140.45	46.059		
14,100.00	7,870.00	11,581.28	7,680.66	114.48	71.16	88.41	-2,642.56	-1,308.85	6,467.53	6,325.14	142.40	45.420		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1B-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 140-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,130.97	7,870.00	11,589.26	7,680.80	114.59	71.29	88.41	-2,650.54	-1,308.83	6,467.35	6,324.51	142.84	45.276		
14,200.00	7,870.00	11,620.00	7,681.37	114.82	71.79	88.42	-2,681.27	-1,309.04	6,467.39	6,323.29	144.10	44.880		
14,300.00	7,870.00	11,649.66	7,681.93	115.18	72.27	88.42	-2,710.92	-1,309.48	6,468.23	6,322.61	145.62	44.419		
14,400.00	7,870.00	11,709.71	7,682.99	115.57	73.25	88.43	-2,770.95	-1,310.66	6,469.82	6,322.05	147.76	43.785		
14,500.00	7,870.00	14,500.00	7,685.24	115.99	118.87	88.45	-2,939.19	-1,313.36	6,470.96	6,275.89	195.07	33.173		
14,600.00	7,870.00	11,945.57	7,686.34	116.44	77.10	88.46	-3,006.75	-1,314.19	6,471.88	6,317.34	154.55	41.877		
14,700.00	7,870.00	12,008.47	7,688.14	116.92	78.13	88.48	-3,069.61	-1,315.54	6,473.58	6,316.78	156.79	41.287		
14,800.00	7,870.00	12,103.08	7,691.62	117.44	79.69	88.51	-3,164.13	-1,317.81	6,475.54	6,315.80	159.74	40.537		
14,900.00	7,870.00	12,203.61	7,695.86	117.98	81.35	88.55	-3,264.54	-1,320.25	6,477.53	6,314.68	162.84	39.778		
15,000.00	7,870.00	12,312.00	7,700.82	118.56	83.14	88.59	-3,372.79	-1,322.84	6,479.47	6,313.33	166.14	39.000		
15,100.00	7,870.00	12,384.31	7,704.15	119.17	84.34	88.62	-3,445.00	-1,324.60	6,481.48	6,312.84	168.64	38.434		
15,200.00	7,870.00	12,490.80	7,707.40	119.81	86.11	88.65	-3,551.40	-1,327.62	6,483.92	6,312.00	171.91	37.716		
15,300.00	7,870.00	12,669.68	7,710.05	120.48	89.09	88.68	-3,730.22	-1,331.11	6,485.50	6,308.66	176.85	36.673		
15,400.00	7,870.00	12,785.17	7,712.68	121.19	91.03	88.70	-3,845.66	-1,332.50	6,486.31	6,305.94	180.37	35.960		
15,500.00	7,870.00	12,919.73	7,719.08	121.93	93.29	88.76	-3,980.07	-1,333.64	6,486.70	6,302.32	184.38	35.182		
15,600.00	7,870.00	13,042.45	7,725.46	122.71	95.37	88.81	-4,102.62	-1,334.24	6,486.75	6,298.62	188.13	34.480		
15,641.77	7,870.00	13,074.59	7,727.05	123.04	95.91	88.83	-4,134.72	-1,334.35	6,486.71	6,297.46	189.25	34.275		
15,700.00	7,870.00	13,117.34	7,728.80	123.52	96.63	88.84	-4,177.43	-1,334.58	6,486.78	6,296.01	190.77	34.003		
15,800.00	7,870.00	13,210.76	7,731.76	124.36	98.21	88.87	-4,270.80	-1,335.26	6,487.11	6,293.26	193.85	33.464		
15,900.00	7,870.00	13,309.76	7,734.45	125.23	99.89	88.89	-4,369.76	-1,335.99	6,487.46	6,290.39	197.07	32.920		
16,000.00	7,870.00	13,487.41	7,738.63	126.14	102.90	88.93	-4,547.36	-1,336.26	6,487.24	6,285.08	202.16	32.090		
16,100.00	7,870.00	13,894.41	7,742.07	127.07	109.87	88.96	-4,954.07	-1,324.60	6,483.99	6,271.38	212.61	30.498		
16,200.00	7,870.00	13,937.00	7,741.78	128.04	110.60	88.95	-4,996.61	-1,322.73	6,479.03	6,264.45	214.58	30.193		
16,300.00	7,870.00	13,937.00	7,741.78	129.04	110.60	88.95	-4,996.61	-1,322.73	6,475.12	6,259.57	215.55	30.040		
16,400.00	7,870.00	13,971.59	7,741.35	130.06	111.19	88.95	-5,031.19	-1,321.80	6,472.35	6,255.05	217.30	29.785		
16,500.00	7,870.00	14,026.00	7,740.38	131.11	112.13	88.94	-5,085.59	-1,321.54	6,471.12	6,251.61	219.51	29.480		
16,592.59	7,870.00	14,026.00	7,740.38	132.11	112.13	88.94	-5,085.59	-1,321.54	6,470.46	6,250.12	220.34	29.366		
16,600.00	7,870.00	14,026.00	7,740.38	132.19	112.13	88.94	-5,085.59	-1,321.54	6,470.46	6,250.06	220.40	29.358		
16,700.00	7,870.00	14,082.37	7,739.15	133.29	113.09	88.93	-5,141.94	-1,322.10	6,471.05	6,248.42	222.63	29.066		
16,800.00	7,870.00	14,229.45	7,735.66	134.42	115.60	88.90	-5,288.97	-1,323.03	6,471.35	6,244.28	227.07	28.500		
16,900.00	7,870.00	14,293.00	7,735.19	135.57	116.69	88.89	-5,352.52	-1,323.57	6,471.82	6,242.33	229.48	28.202		
17,000.00	7,870.00	14,391.58	7,735.94	136.75	118.38	88.90	-5,451.09	-1,324.74	6,472.65	6,239.88	232.77	27.807		
17,100.00	7,870.00	14,557.41	7,738.24	137.94	121.22	88.92	-5,616.91	-1,325.63	6,472.84	6,235.11	237.73	27.228		
17,200.00	7,870.00	14,690.81	7,740.39	139.16	123.52	88.94	-5,750.28	-1,324.88	6,471.82	6,229.93	241.89	26.755		
17,300.00	7,870.00	14,756.65	7,740.58	140.39	124.66	88.94	-5,816.12	-1,324.74	6,471.24	6,226.84	244.40	26.478		
17,400.00	7,870.00	14,858.60	7,739.02	141.65	126.41	88.93	-5,918.05	-1,324.70	6,470.90	6,223.11	247.79	26.115		
17,500.00	7,870.00	14,967.08	7,737.82	142.92	128.28	88.92	-6,026.52	-1,324.53	6,470.42	6,219.08	251.34	25.743		
17,600.00	7,870.00	15,113.75	7,737.61	144.21	130.81	88.92	-6,173.20	-1,323.70	6,469.51	6,213.65	255.86	25.285		
17,700.00	7,870.00	15,184.00	7,738.71	145.52	132.03	88.93	-6,243.43	-1,323.32	6,468.57	6,210.08	258.49	25.024		
17,800.00	7,870.00	15,270.24	7,741.07	146.84	133.52	88.95	-6,329.64	-1,323.15	6,467.98	6,206.45	261.53	24.731		
17,839.40	7,870.00	15,273.00	7,741.13	147.37	133.57	88.95	-6,332.40	-1,323.15	6,467.86	6,205.93	261.94	24.692		
17,900.00	7,870.00	15,273.00	7,741.13	148.18	133.57	88.95	-6,332.40	-1,323.15	6,468.15	6,205.70	262.45	24.646		
18,000.00	7,870.00	15,328.12	7,742.23	149.54	134.52	88.96	-6,387.51	-1,323.65	6,469.02	6,204.35	264.67	24.442		
18,100.00	7,870.00	15,362.00	7,742.70	150.90	135.10	88.96	-6,421.37	-1,324.55	6,471.22	6,204.89	266.33	24.298		
18,200.00	7,870.00	15,395.52	7,743.09	152.28	135.67	88.96	-6,454.86	-1,325.79	6,474.44	6,206.49	267.95	24.163		
18,300.00	7,870.00	15,451.00	7,743.66	153.67	136.63	88.97	-6,510.28	-1,328.34	6,478.59	6,208.46	270.13	23.983		
18,400.00	7,870.00	15,725.32	7,748.23	155.07	141.34	89.01	-6,784.37	-1,337.70	6,481.68	6,203.60	278.08	23.309		
18,500.00	7,870.00	15,905.30	7,753.14	156.49	144.45	89.06	-6,964.27	-1,340.31	6,482.75	6,199.21	283.55	22.863		
18,600.00	7,870.00	15,982.88	7,755.80	157.91	145.80	89.08	-7,041.79	-1,341.13	6,483.41	6,197.04	286.37	22.640		
18,700.00	7,870.00	16,111.98	7,759.84	159.35	148.04	89.11	-7,170.82	-1,342.19	6,483.81	6,193.28	290.53	22.317		
18,800.00	7,870.00	16,181.79	7,760.99	160.79	149.25	89.13	-7,240.62	-1,342.79	6,484.33	6,191.18	293.16	22.119		
18,900.00	7,870.00	16,232.53	7,762.34	162.25	150.12	89.14	-7,291.33	-1,343.58	6,485.52	6,190.24	295.28	21.964		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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	
19,000.00	7,870.00	16,357.95	7,768.25	163.71	152.30	89.19	-7,416.59	-1,345.94	6,487.03	6,187.66	299.37	21.669	
19,100.00	7,870.00	16,433.32	7,772.05	165.18	153.60	89.22	-7,491.86	-1,347.28	6,488.40	6,186.26	302.14	21.475	
19,200.00	7,870.00	16,536.04	7,776.63	166.66	155.38	89.26	-7,594.45	-1,349.29	6,489.96	6,184.33	305.63	21.235	
19,300.00	7,870.00	16,941.04	7,790.30	168.15	162.44	89.38	-7,999.14	-1,347.94	6,489.62	6,172.74	316.88	20.480	
19,400.00	7,870.00	17,106.34	7,793.21	169.65	165.33	89.41	-8,164.30	-1,342.11	6,485.61	6,163.68	321.93	20.146	
19,500.00	7,870.00	17,241.77	7,794.31	171.15	167.71	89.42	-8,299.63	-1,336.74	6,481.35	6,155.11	326.24	19.867	
19,600.00	7,870.00	17,340.00	7,795.17	172.66	169.43	89.43	-8,397.75	-1,332.22	6,476.41	6,146.76	329.65	19.646	
19,700.00	7,870.00	17,340.00	7,795.17	174.18	169.43	89.43	-8,397.75	-1,332.22	6,472.48	6,141.84	330.64	19.575	
19,800.00	7,870.00	17,340.00	7,795.17	175.70	169.43	89.43	-8,397.75	-1,332.22	6,470.09	6,138.52	331.57	19.514	
19,889.26	7,870.00	17,340.00	7,795.17	177.06	169.43	89.43	-8,397.75	-1,332.22	6,469.26	6,136.92	332.34	19.466 SF	

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 177-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-55.16	787.25	-1,131.17	1,378.19					
100.00	100.00	93.17	93.17	0.13	0.15	-55.17	787.10	-1,131.19	1,378.09	1,377.81	0.28	4,923.128		
200.00	200.00	195.56	195.56	0.49	0.31	-55.19	786.60	-1,131.24	1,377.84	1,377.05	0.80	1,726.173		
286.15	286.15	277.15	277.15	0.80	0.63	-55.21	786.17	-1,131.42	1,377.74	1,376.31	1.44	959.572 CC		
300.00	300.00	290.45	290.45	0.85	0.68	-55.21	786.11	-1,131.47	1,377.75	1,376.21	1.53	898.740 ES		
400.00	399.98	389.10	389.10	1.21	1.03	-123.42	785.76	-1,131.85	1,378.82	1,376.59	2.23	617.184		
500.00	499.84	488.70	488.69	1.56	1.38	-123.56	785.69	-1,132.07	1,381.86	1,378.92	2.94	470.312		
600.00	599.45	583.67	583.66	1.93	1.71	-123.79	785.19	-1,132.77	1,387.01	1,383.38	3.64	381.269		
700.00	698.70	658.13	658.11	2.32	1.97	-123.98	785.47	-1,133.80	1,395.21	1,390.93	4.28	326.214		
800.00	797.47	734.48	734.38	2.72	2.24	-124.09	788.70	-1,134.48	1,407.13	1,402.20	4.93	285.258		
900.00	895.62	807.01	806.65	3.16	2.49	-124.09	794.80	-1,134.53	1,422.67	1,417.07	5.59	254.362		
1,000.00	993.06	886.23	885.34	3.63	2.77	-124.06	803.99	-1,134.63	1,441.89	1,435.59	6.30	228.693		
1,100.00	1,089.64	977.42	975.76	4.14	3.11	-124.09	815.71	-1,134.85	1,463.89	1,456.80	7.09	206.362		
1,200.00	1,185.27	1,067.77	1,065.25	4.70	3.46	-124.13	828.21	-1,134.76	1,488.12	1,480.20	7.92	187.968		
1,300.00	1,279.82	1,154.44	1,150.92	5.31	3.80	-124.16	841.31	-1,134.54	1,514.88	1,506.11	8.76	172.846		
1,400.00	1,373.17	1,240.00	1,235.37	5.97	4.15	-124.20	855.04	-1,134.41	1,544.20	1,534.56	9.65	160.097		
1,500.00	1,465.21	1,329.54	1,323.75	6.69	4.51	-124.31	869.43	-1,134.76	1,576.03	1,565.44	10.58	148.915		
1,600.00	1,555.84	1,412.45	1,405.55	7.47	4.86	-124.39	882.96	-1,135.13	1,610.12	1,598.59	11.53	139.667		
1,700.00	1,644.94	1,487.66	1,479.67	8.31	5.18	-124.41	895.69	-1,135.97	1,647.13	1,634.66	12.47	132.067		
1,800.00	1,732.39	1,571.07	1,561.72	9.23	5.54	-124.51	910.62	-1,137.24	1,687.01	1,673.52	13.49	125.032		
1,900.00	1,818.11	1,673.60	1,662.84	10.21	5.98	-124.87	927.51	-1,138.78	1,728.46	1,713.82	14.64	118.032		
2,000.00	1,901.97	1,750.74	1,739.03	11.26	6.31	-124.99	939.50	-1,140.11	1,772.01	1,756.32	15.69	112.945		
2,100.00	1,983.88	1,813.63	1,801.11	12.38	6.58	-124.92	949.39	-1,141.80	1,818.65	1,801.97	16.68	109.025		
2,200.00	2,063.74	1,930.52	1,916.72	13.57	7.07	-125.60	966.32	-1,144.61	1,866.88	1,848.89	17.99	103.787		
2,300.00	2,141.45	1,999.57	1,985.14	14.84	7.36	-125.66	975.44	-1,146.38	1,917.31	1,898.26	19.05	100.652		
2,327.78	2,162.65	2,018.01	2,003.42	15.21	7.43	-125.66	977.86	-1,146.92	1,931.83	1,912.49	19.34	99.872		
2,400.00	2,217.51	2,065.61	2,050.58	16.17	7.63	-126.37	984.15	-1,148.45	1,970.14	1,950.04	20.10	98.027		
2,500.00	2,293.49	2,168.87	2,152.90	17.51	8.06	-127.84	997.71	-1,151.44	2,023.55	2,002.20	21.35	94.800		
2,600.00	2,369.47	2,301.45	2,284.50	18.86	8.59	-129.62	1,013.75	-1,152.43	2,075.55	2,052.81	22.74	91.265		
2,700.00	2,445.45	2,389.25	2,371.71	20.22	8.94	-130.73	1,023.87	-1,151.94	2,127.15	2,103.27	23.88	89.090		
2,800.00	2,521.42	2,466.72	2,448.69	21.59	9.25	-131.67	1,032.57	-1,151.49	2,179.19	2,154.25	24.94	87.385		
2,900.00	2,597.40	2,548.06	2,529.51	22.97	9.58	-132.63	1,041.74	-1,151.00	2,231.72	2,205.71	26.01	85.812		
3,000.00	2,673.38	2,659.55	2,640.13	24.34	10.03	-133.83	1,055.48	-1,149.01	2,284.04	2,256.79	27.25	83.812		
3,100.00	2,749.36	2,718.77	2,698.75	25.73	10.28	-134.41	1,063.70	-1,147.55	2,336.60	2,308.40	28.19	82.882		
3,200.00	2,825.33	2,764.72	2,744.20	27.11	10.47	-134.85	1,070.46	-1,146.78	2,390.35	2,361.31	29.03	82.329		
3,300.00	2,901.31	2,802.75	2,781.75	28.50	10.63	-135.19	1,076.43	-1,146.73	2,445.72	2,415.91	29.80	82.059		
3,400.00	2,977.29	2,847.70	2,826.08	29.90	10.83	-135.58	1,083.88	-1,147.36	2,502.64	2,472.04	30.60	81.780		
3,500.00	3,053.27	2,910.06	2,887.56	31.29	11.10	-136.12	1,094.20	-1,148.73	2,560.49	2,528.98	31.51	81.262		
3,600.00	3,129.24	2,990.32	2,966.74	32.69	11.45	-136.79	1,107.13	-1,150.82	2,618.81	2,586.28	32.53	80.501		
3,700.00	3,205.22	3,078.70	3,054.05	34.08	11.84	-137.51	1,120.73	-1,153.00	2,677.15	2,643.55	33.60	79.682		
3,800.00	3,281.20	3,167.51	3,141.92	35.48	12.21	-138.23	1,133.43	-1,154.99	2,735.37	2,700.73	34.65	78.947		
3,900.00	3,357.18	3,257.28	3,230.91	36.88	12.58	-138.95	1,145.15	-1,156.83	2,793.50	2,757.82	35.68	78.286		
4,000.00	3,433.15	3,349.72	3,322.67	38.29	12.96	-139.69	1,156.15	-1,158.46	2,851.49	2,814.77	36.72	77.665		
4,100.00	3,509.13	3,438.05	3,410.37	39.69	13.32	-140.36	1,166.58	-1,159.62	2,909.34	2,871.62	37.72	77.131		
4,200.00	3,585.11	3,527.10	3,498.57	41.09	13.69	-140.96	1,178.82	-1,160.16	2,967.11	2,928.38	38.74	76.594		
4,300.00	3,661.08	3,607.12	3,577.75	42.50	14.03	-141.48	1,190.40	-1,160.36	3,024.88	2,985.18	39.70	76.197		
4,400.00	3,737.06	3,698.58	3,668.46	43.90	14.41	-142.07	1,202.07	-1,160.68	3,082.69	3,041.98	40.72	75.714		
4,500.00	3,813.04	3,788.27	3,757.61	45.31	14.76	-142.67	1,211.94	-1,160.79	3,140.30	3,098.61	41.69	75.324		
4,600.00	3,889.02	3,843.63	3,812.70	46.71	14.98	-143.04	1,217.40	-1,160.96	3,198.16	3,155.75	42.42	75.402		
4,700.00	3,964.99	3,898.00	3,866.82	48.12	15.19	-143.40	1,222.51	-1,161.78	3,256.99	3,213.87	43.12	75.536		
4,800.00	4,040.97	3,941.35	3,909.97	49.53	15.36	-143.69	1,226.47	-1,162.83	3,316.63	3,272.90	43.73	75.840		
4,900.00	4,116.95	4,013.41	3,981.71	50.94	15.63	-144.16	1,232.86	-1,164.97	3,376.93	3,332.40	44.53	75.835		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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	4,192.93	4,105.72	4,073.74	52.35	15.98	-144.76	1,239.70	-1,167.20	3,436.82	3,391.38	45.44	75.626		
5,100.00	4,268.90	4,154.99	4,122.87	53.76	16.16	-145.08	1,243.27	-1,168.62	3,497.29	3,451.23	46.06	75.924		
5,200.00	4,344.88	5,200.00	4,272.68	55.16	20.43	-145.91	1,258.98	-1,171.86	3,557.75	3,506.64	51.11	69.613		
5,300.00	4,420.86	4,443.63	4,409.32	56.57	17.33	-146.54	1,277.64	-1,171.05	3,616.04	3,567.26	48.78	74.130		
5,400.00	4,496.84	4,494.46	4,459.70	57.98	17.54	-146.77	1,284.43	-1,170.64	3,674.48	3,625.02	49.46	74.286		
5,500.00	4,572.81	4,551.00	4,515.68	59.39	17.77	-147.01	1,292.39	-1,170.84	3,733.85	3,683.66	50.19	74.397		
5,600.00	4,648.79	4,585.23	4,549.55	60.81	17.92	-147.15	1,297.26	-1,171.25	3,793.90	3,743.17	50.73	74.786		
5,700.00	4,724.77	4,640.00	4,603.82	62.22	18.15	-147.38	1,304.65	-1,172.24	3,854.61	3,803.18	51.42	74.959		
5,800.00	4,800.74	4,710.38	4,673.66	63.63	18.43	-147.69	1,313.15	-1,173.83	3,915.69	3,863.47	52.22	74.990		
5,900.00	4,876.72	4,778.05	4,740.91	65.04	18.71	-147.99	1,320.56	-1,175.52	3,976.99	3,924.02	52.98	75.071		
6,000.00	4,952.70	4,857.56	4,819.76	66.45	19.04	-148.31	1,330.45	-1,177.59	4,038.53	3,984.69	53.85	75.001		
6,100.00	5,028.68	4,940.45	4,901.48	67.86	19.40	-148.58	1,344.17	-1,179.34	4,099.90	4,045.10	54.79	74.824		
6,200.00	5,104.65	5,007.75	4,967.60	69.27	19.71	-148.77	1,356.69	-1,180.81	4,161.45	4,105.82	55.63	74.806		
6,300.00	5,180.63	5,084.65	5,043.20	70.69	20.06	-148.98	1,370.63	-1,182.60	4,223.14	4,166.59	56.55	74.683		
6,400.00	5,256.61	5,167.83	5,125.27	72.10	20.42	-149.24	1,383.98	-1,184.56	4,284.82	4,227.33	57.49	74.531		
6,500.00	5,332.59	5,257.97	5,214.60	73.51	20.80	-149.55	1,395.84	-1,186.58	4,346.39	4,287.94	58.45	74.364		
6,600.00	5,408.56	5,339.37	5,295.55	74.92	21.12	-149.86	1,404.26	-1,188.31	4,407.86	4,348.57	59.29	74.344		
6,700.00	5,484.54	5,412.04	5,367.90	76.34	21.40	-150.14	1,410.93	-1,189.87	4,469.40	4,409.35	60.05	74.425		
6,800.00	5,560.52	5,478.38	5,433.82	77.75	21.67	-150.38	1,418.10	-1,191.36	4,531.13	4,470.34	60.79	74.543		
6,900.00	5,636.50	5,542.49	5,497.22	79.16	21.93	-150.56	1,427.50	-1,192.94	4,593.13	4,531.60	61.53	74.643		
7,000.00	5,712.47	5,609.85	5,563.76	80.57	22.23	-150.74	1,437.75	-1,194.76	4,655.36	4,593.04	62.32	74.699		
7,100.00	5,788.45	5,684.31	5,637.53	81.99	22.54	-150.96	1,447.72	-1,196.89	4,717.75	4,654.60	63.14	74.715		
7,200.00	5,864.43	5,769.35	5,722.39	83.40	23.77	-151.87	1,483.55	-1,197.58	4,777.50	4,711.74	65.77	72.641		
7,300.00	5,940.40	6,036.71	5,987.31	84.81	23.97	-152.00	1,489.92	-1,196.84	4,836.53	4,770.15	66.38	72.860		
7,400.00	6,016.38	6,065.00	6,015.35	86.23	24.08	-152.07	1,493.76	-1,196.55	4,896.18	4,829.35	66.83	73.259		
7,500.00	6,092.36	6,116.81	6,066.71	87.64	24.30	-152.20	1,500.52	-1,196.43	4,956.42	4,888.96	67.47	73.465		
7,600.00	6,168.34	6,154.00	6,103.62	89.05	24.45	-152.30	1,505.05	-1,196.72	5,017.41	4,949.43	67.97	73.816		
7,700.00	6,244.31	6,205.24	6,154.48	90.47	24.66	-152.44	1,511.25	-1,197.46	5,078.95	5,010.37	68.59	74.052		
7,800.00	6,320.29	6,261.41	6,210.19	91.88	24.89	-152.58	1,518.35	-1,198.54	5,140.92	5,071.68	69.24	74.247		
7,900.00	6,396.27	6,327.66	6,275.95	93.30	25.16	-152.75	1,526.27	-1,200.00	5,203.13	5,133.16	69.97	74.360		
8,000.00	6,472.25	6,446.87	6,394.32	94.71	25.64	-153.05	1,540.23	-1,201.92	5,264.81	5,193.68	71.13	74.012		
8,100.00	6,548.22	6,486.47	6,433.66	96.12	25.80	-153.15	1,544.67	-1,202.65	5,326.84	5,255.20	71.64	74.357		
8,200.00	6,624.20	6,529.52	6,476.47	97.54	25.97	-153.27	1,549.15	-1,203.74	5,389.44	5,317.28	72.16	74.687		
8,300.00	6,700.18	6,578.66	6,525.38	98.95	26.16	-153.40	1,553.67	-1,205.23	5,452.49	5,379.78	72.72	74.982		
8,400.00	6,776.16	6,857.28	6,802.91	100.37	27.21	-154.16	1,577.18	-1,210.45	5,515.65	5,440.62	75.03	73.515		
8,500.00	6,852.13	6,903.56	6,849.05	101.78	27.38	-154.29	1,580.77	-1,210.35	5,576.34	5,500.78	75.56	73.800		
8,600.00	6,928.11	6,956.00	6,901.38	103.20	27.58	-154.43	1,584.15	-1,210.61	5,637.62	5,561.49	76.13	74.056		
8,700.00	7,004.09	6,996.89	6,942.23	104.61	27.71	-154.56	1,585.72	-1,211.00	5,699.34	5,622.76	76.57	74.430		
8,800.00	7,080.06	7,135.00	7,079.84	106.02	28.07	-155.15	1,576.93	-1,210.87	5,760.58	5,683.15	77.43	74.396		
8,900.00	7,156.04	7,171.73	7,115.86	107.44	28.13	-155.36	1,569.81	-1,210.30	5,821.79	5,744.09	77.70	74.928		
9,000.00	7,232.02	7,186.26	7,129.99	108.85	28.15	-155.45	1,566.44	-1,210.28	5,884.06	5,806.16	77.90	75.536		
9,104.68	7,311.55	7,224.00	7,166.32	110.33	28.21	-155.69	1,556.23	-1,210.78	5,950.40	5,872.27	78.13	76.160		
9,150.00	7,346.29	7,224.00	7,166.32	110.97	28.21	-164.68	1,556.23	-1,210.78	5,979.36	5,901.16	78.19	76.469		
9,200.00	7,385.15	7,224.00	7,166.32	111.65	28.21	-175.02	1,556.23	-1,210.78	6,011.72	5,933.48	78.25	76.831		
9,250.00	7,424.29	7,224.00	7,166.32	112.31	28.21	174.42	1,556.23	-1,210.78	6,044.28	5,966.00	78.28	77.214		
9,300.00	7,463.40	7,224.00	7,166.32	112.93	28.21	163.91	1,556.23	-1,210.78	6,076.79	5,998.50	78.29	77.617		
9,350.00	7,502.19	7,224.00	7,166.32	113.51	28.21	153.73	1,556.23	-1,210.78	6,109.00	6,030.71	78.28	78.036		
9,400.00	7,540.36	7,224.00	7,166.32	114.04	28.21	144.10	1,556.23	-1,210.78	6,140.67	6,062.41	78.26	78.466		
9,450.00	7,577.62	7,224.00	7,166.32	114.53	28.21	135.17	1,556.23	-1,210.78	6,171.57	6,093.36	78.22	78.904		
9,500.00	7,613.70	7,224.00	7,166.32	114.95	28.21	127.05	1,556.23	-1,210.78	6,201.49	6,123.33	78.16	79.343		
9,550.00	7,648.30	7,262.28	7,202.55	115.32	28.24	119.93	1,543.96	-1,212.19	6,229.52	6,151.38	78.14	79.722		
9,600.00	7,681.18	7,269.01	7,208.85	115.63	28.25	113.53	1,541.63	-1,212.54	6,256.57	6,178.49	78.08	80.132		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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		
9,650.00	7,712.08	7,275.65	7,215.04	115.88	28.26	107.94	1,539.28	-1,212.92	6,282.00	6,203.98	78.02	80.523		
9,700.00	7,740.76	7,313.00	7,249.50	116.08	28.29	103.25	1,525.12	-1,215.61	6,306.06	6,228.09	77.97	80.873		
9,750.00	7,767.01	7,313.00	7,249.50	116.23	28.29	99.07	1,525.12	-1,215.61	6,327.58	6,249.66	77.92	81.206		
9,800.00	7,790.63	7,313.00	7,249.50	116.33	28.29	95.50	1,525.12	-1,215.61	6,347.04	6,269.16	77.88	81.498		
9,850.00	7,811.44	7,313.00	7,249.50	116.38	28.29	92.50	1,525.12	-1,215.61	6,364.33	6,286.47	77.86	81.744		
9,900.00	7,829.28	7,313.00	7,249.50	116.38	28.29	90.04	1,525.12	-1,215.61	6,379.32	6,301.46	77.86	81.937		
9,950.00	7,844.01	7,313.00	7,249.50	116.35	28.29	88.06	1,525.12	-1,215.61	6,391.92	6,314.03	77.88	82.071		
10,000.00	7,855.52	7,313.00	7,249.50	116.28	28.29	86.54	1,525.12	-1,215.61	6,402.04	6,324.11	77.94	82.142		
10,050.00	7,863.72	7,313.00	7,249.50	116.18	28.29	85.45	1,525.12	-1,215.61	6,409.63	6,331.61	78.03	82.147		
10,100.00	7,868.56	7,313.00	7,249.50	116.06	28.29	84.79	1,525.12	-1,215.61	6,414.63	6,336.48	78.15	82.081		
10,145.94	7,870.00	7,313.00	7,249.50	115.92	28.29	84.53	1,525.12	-1,215.61	6,416.92	6,338.63	78.29	81.959		
10,200.00	7,870.00	8,293.00	7,789.70	115.76	29.19	89.36	774.17	-1,224.16	6,414.18	6,339.22	74.96	85.571		
10,300.00	7,870.00	8,293.00	7,789.70	115.46	29.19	89.36	774.17	-1,224.16	6,406.65	6,331.32	75.33	85.049		
10,400.00	7,870.00	8,293.00	7,789.70	115.18	29.19	89.36	774.17	-1,224.16	6,400.68	6,324.94	75.73	84.514		
10,500.00	7,870.00	8,364.87	7,791.96	114.91	29.45	89.38	702.41	-1,220.86	6,395.71	6,319.79	75.92	84.240		
10,600.00	7,870.00	8,435.07	7,792.15	114.65	29.76	89.38	632.27	-1,217.91	6,391.18	6,314.98	76.20	83.876		
10,700.00	7,870.00	8,495.31	7,792.12	114.41	30.05	89.38	572.08	-1,215.68	6,387.16	6,310.58	76.58	83.409		
10,800.00	7,870.00	8,560.00	7,792.56	114.17	30.40	89.39	507.42	-1,213.85	6,383.91	6,306.88	77.02	82.881		
10,900.00	7,870.00	8,596.03	7,792.92	113.95	30.62	89.39	471.40	-1,213.11	6,381.36	6,303.79	77.57	82.266		
11,000.00	7,870.00	8,649.00	7,793.17	113.75	30.95	89.39	418.43	-1,212.38	6,379.64	6,301.49	78.15	81.636		
11,100.00	7,870.00	8,709.38	7,792.84	113.55	31.37	89.39	358.06	-1,211.96	6,378.59	6,299.78	78.81	80.939		
11,200.00	7,870.00	8,791.72	7,790.90	113.37	31.98	89.37	275.74	-1,211.77	6,378.03	6,298.46	79.57	80.154		
11,300.00	7,870.00	8,884.55	7,786.92	113.20	32.74	89.33	182.99	-1,211.62	6,377.59	6,297.12	80.47	79.255		
11,376.74	7,870.00	8,937.68	7,784.61	113.07	33.20	89.31	129.92	-1,211.63	6,377.40	6,296.23	81.17	78.565		
11,400.00	7,870.00	8,949.52	7,784.18	113.04	33.30	89.31	118.08	-1,211.68	6,377.42	6,296.05	81.37	78.373		
11,500.00	7,870.00	9,006.00	7,782.80	112.89	33.81	89.30	61.62	-1,212.19	6,377.99	6,295.69	82.30	77.494		
11,600.00	7,870.00	9,052.95	7,781.75	112.76	34.26	89.29	14.70	-1,212.98	6,379.31	6,296.06	83.25	76.628		
11,700.00	7,870.00	9,362.00	7,761.22	112.64	37.53	89.10	-293.49	-1,212.27	6,377.73	6,291.72	86.01	74.155		
11,800.00	7,870.00	9,407.61	7,761.00	112.53	38.06	89.10	-339.09	-1,211.62	6,376.30	6,289.16	87.15	73.167		
11,846.06	7,870.00	9,419.42	7,761.19	112.48	38.20	89.10	-350.90	-1,211.61	6,376.10	6,288.49	87.61	72.778		
11,900.00	7,870.00	9,451.00	7,762.22	112.44	38.56	89.11	-382.46	-1,211.90	6,376.27	6,287.96	88.30	72.209		
12,000.00	7,870.00	9,470.84	7,763.10	112.36	38.80	89.12	-402.28	-1,212.24	6,377.17	6,287.90	89.27	71.434		
12,100.00	7,870.00	9,540.00	7,766.42	112.29	39.63	89.15	-471.34	-1,213.72	6,378.88	6,288.14	90.74	70.296		
12,200.00	7,870.00	9,623.02	7,769.82	112.24	40.65	89.18	-554.26	-1,215.79	6,380.97	6,288.56	92.41	69.049		
12,300.00	7,870.00	9,863.17	7,774.63	112.20	43.74	89.22	-794.32	-1,219.88	6,382.68	6,286.68	95.99	66.491		
12,400.00	7,870.00	9,975.43	7,776.04	112.17	45.25	89.24	-906.56	-1,220.06	6,382.47	6,284.22	98.25	64.960		
12,466.58	7,870.00	10,028.77	7,776.13	112.16	45.98	89.24	-959.90	-1,220.18	6,382.40	6,282.87	99.52	64.130		
12,500.00	7,870.00	10,054.52	7,776.45	112.16	46.34	89.24	-985.64	-1,220.28	6,382.42	6,282.27	100.15	63.729		
12,600.00	7,870.00	10,134.94	7,778.16	112.17	47.46	89.26	-1,066.04	-1,220.80	6,382.70	6,280.58	102.12	62.503		
12,700.00	7,870.00	10,244.71	7,779.72	112.19	49.01	89.27	-1,175.80	-1,221.65	6,383.13	6,278.57	104.56	61.048		
12,800.00	7,870.00	10,324.13	7,780.31	112.23	50.15	89.28	-1,255.21	-1,222.25	6,383.54	6,276.93	106.61	59.878		
12,900.00	7,870.00	10,399.72	7,782.15	112.28	51.25	89.29	-1,330.78	-1,223.12	6,384.33	6,275.68	108.65	58.762		
13,000.00	7,870.00	10,463.62	7,783.53	112.36	52.19	89.30	-1,394.65	-1,224.12	6,385.55	6,275.02	110.53	57.773		
13,100.00	7,870.00	10,520.00	7,783.61	112.45	53.02	89.31	-1,451.02	-1,225.38	6,387.44	6,275.14	112.30	56.877		
13,200.00	7,870.00	10,609.00	7,784.19	112.56	54.34	89.31	-1,539.98	-1,227.67	6,389.68	6,275.04	114.64	55.738		
13,300.00	7,870.00	10,681.49	7,785.73	112.68	55.42	89.33	-1,612.43	-1,229.75	6,392.22	6,275.48	116.74	54.757		
13,400.00	7,870.00	11,199.30	7,786.27	112.83	63.42	89.33	-2,129.69	-1,228.06	6,390.61	6,263.67	126.93	50.346		
13,500.00	7,870.00	11,233.00	7,787.01	113.00	63.95	89.34	-2,163.37	-1,227.13	6,387.45	6,258.97	128.48	49.716		
13,600.00	7,870.00	11,316.03	7,789.13	113.19	65.27	89.35	-2,246.35	-1,225.39	6,384.97	6,253.98	130.99	48.745		
13,700.00	7,870.00	11,376.96	7,790.09	113.40	66.24	89.36	-2,307.27	-1,224.31	6,382.86	6,249.78	133.08	47.964		
13,800.00	7,870.00	11,522.44	7,789.92	113.63	68.58	89.36	-2,452.72	-1,221.94	6,380.97	6,244.13	136.85	46.628		
13,900.00	7,870.00	11,610.92	7,794.00	113.89	70.01	89.40	-2,541.07	-1,220.13	6,378.54	6,238.99	139.55	45.708		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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		
14,000.00	7,870.00	11,686.28	7,799.38	114.18	71.23	89.45	-2,616.23	-1,218.83	6,376.41	6,234.40	142.01	44.900		
14,100.00	7,870.00	11,756.06	7,805.16	114.48	72.37	89.50	-2,685.77	-1,217.95	6,374.73	6,230.35	144.37	44.154		
14,200.00	7,870.00	11,828.92	7,810.96	114.82	73.56	89.55	-2,758.39	-1,217.35	6,373.49	6,226.68	146.81	43.413		
14,300.00	7,870.00	11,925.86	7,816.06	115.18	75.14	89.60	-2,855.19	-1,216.81	6,372.57	6,222.81	149.76	42.552		
14,400.00	7,870.00	12,086.94	7,819.48	115.57	77.79	89.63	-3,016.22	-1,215.00	6,371.07	6,216.98	154.09	41.346		
14,500.00	7,870.00	12,212.23	7,817.23	115.99	79.86	89.61	-3,141.45	-1,212.73	6,368.94	6,211.27	157.67	40.393		
14,600.00	7,870.00	12,213.00	7,817.20	116.44	79.87	89.61	-3,142.23	-1,212.72	6,367.39	6,208.80	158.59	40.151		
14,700.00	7,870.00	12,267.77	7,814.82	116.92	80.77	89.58	-3,196.94	-1,212.23	6,366.55	6,205.90	160.65	39.629		
14,704.93	7,870.00	12,269.12	7,814.76	116.95	80.79	89.58	-3,198.29	-1,212.24	6,366.55	6,205.82	160.73	39.611		
14,800.00	7,870.00	12,302.00	7,813.17	117.44	81.34	89.57	-3,231.13	-1,212.56	6,367.08	6,204.81	162.27	39.237		
14,900.00	7,870.00	12,425.03	7,808.40	117.98	83.37	89.53	-3,354.06	-1,213.81	6,367.77	6,201.93	165.84	38.398		
15,000.00	7,870.00	15,000.00	7,807.83	118.56	126.09	89.52	-3,467.84	-1,214.92	6,368.43	6,158.36	210.07	30.315		
15,100.00	7,870.00	12,717.00	7,805.15	119.17	88.23	89.50	-3,645.97	-1,214.40	6,367.51	6,193.38	174.12	36.569		
15,183.62	7,870.00	12,748.00	7,804.91	119.70	88.74	89.50	-3,676.98	-1,214.27	6,367.05	6,191.50	175.56	36.267		
15,200.00	7,870.00	12,748.00	7,804.91	119.81	88.74	89.50	-3,676.98	-1,214.27	6,367.08	6,191.38	175.70	36.238		
15,300.00	7,870.00	12,788.37	7,805.10	120.48	89.42	89.50	-3,717.34	-1,214.51	6,367.61	6,190.13	177.48	35.877		
15,400.00	7,870.00	12,837.00	7,806.04	121.19	90.23	89.51	-3,765.95	-1,215.81	6,369.56	6,190.11	179.45	35.495		
15,500.00	7,870.00	12,842.73	7,806.19	121.93	90.32	89.51	-3,771.67	-1,216.03	6,372.34	6,191.93	180.41	35.322		
15,600.00	7,870.00	12,918.05	7,808.16	122.71	91.57	89.52	-3,846.90	-1,219.07	6,376.01	6,193.03	182.99	34.844		
15,700.00	7,870.00	13,591.24	7,821.72	123.52	102.93	89.65	-4,519.30	-1,218.76	6,376.93	6,177.31	199.62	31.945		
15,800.00	7,870.00	13,639.00	7,823.71	124.36	103.75	89.66	-4,566.99	-1,216.89	6,372.43	6,170.74	201.69	31.596		
15,900.00	7,870.00	13,639.00	7,823.71	125.23	103.75	89.66	-4,566.99	-1,216.89	6,368.92	6,166.30	202.61	31.434		
16,000.00	7,870.00	13,679.21	7,824.99	126.14	104.43	89.68	-4,607.17	-1,215.98	6,366.51	6,162.04	204.47	31.137		
16,100.00	7,870.00	13,728.00	7,825.86	127.07	105.26	89.68	-4,655.95	-1,215.77	6,365.42	6,158.91	206.52	30.823		
16,162.59	7,870.00	13,728.00	7,825.86	127.68	105.26	89.68	-4,655.95	-1,215.77	6,365.12	6,158.06	207.06	30.741		
16,200.00	7,870.00	13,744.51	7,826.01	128.04	105.54	89.69	-4,672.46	-1,215.87	6,365.20	6,157.43	207.77	30.636		
16,300.00	7,870.00	13,947.94	7,825.23	129.04	109.01	89.68	-4,875.87	-1,215.23	6,364.38	6,150.85	213.53	29.805		
16,400.00	7,870.00	13,995.00	7,825.49	130.06	109.81	89.68	-4,922.93	-1,215.14	6,363.67	6,148.13	215.54	29.525		
16,500.00	7,870.00	14,114.60	7,825.99	131.11	111.85	89.68	-5,042.53	-1,214.95	6,363.19	6,143.89	219.30	29.016		
16,600.00	7,870.00	14,173.00	7,827.30	132.19	112.85	89.70	-5,100.91	-1,214.82	6,362.67	6,141.08	221.59	28.714		
16,607.55	7,870.00	14,173.00	7,827.30	132.27	112.85	89.70	-5,100.91	-1,214.82	6,362.66	6,141.01	221.65	28.706		
16,700.00	7,870.00	14,207.43	7,828.25	133.29	113.44	89.71	-5,135.32	-1,215.03	6,363.02	6,139.75	223.27	28.499		
16,800.00	7,870.00	14,441.00	7,826.47	134.42	117.43	89.69	-5,368.83	-1,216.93	6,364.33	6,134.48	229.85	27.689		
16,900.00	7,870.00	14,506.63	7,824.93	135.57	118.55	89.68	-5,434.44	-1,216.31	6,363.18	6,130.86	232.32	27.390		
17,000.00	7,870.00	14,649.88	7,825.71	136.75	121.02	89.68	-5,577.67	-1,215.16	6,361.97	6,125.26	236.72	26.876		
17,100.00	7,870.00	14,708.00	7,827.07	137.94	122.02	89.69	-5,635.77	-1,215.00	6,361.19	6,122.17	239.02	26.614		
17,142.41	7,870.00	14,708.00	7,827.07	138.45	122.02	89.69	-5,635.77	-1,215.00	6,361.05	6,121.68	239.38	26.573		
17,200.00	7,870.00	14,737.76	7,827.80	139.16	122.53	89.70	-5,665.52	-1,215.18	6,361.19	6,120.59	240.60	26.439		
17,300.00	7,870.00	14,797.00	7,828.95	140.39	123.54	89.71	-5,724.75	-1,215.86	6,361.97	6,119.07	242.91	26.191		
17,400.00	7,870.00	14,886.00	7,829.05	141.65	125.07	89.71	-5,813.74	-1,217.06	6,363.00	6,117.04	245.96	25.870		
17,500.00	7,870.00	14,940.23	7,828.68	142.92	126.00	89.71	-5,867.96	-1,218.01	6,364.51	6,116.38	248.12	25.651		
17,600.00	7,870.00	14,993.68	7,829.00	144.21	126.91	89.71	-5,921.39	-1,219.50	6,366.91	6,116.65	250.26	25.441		
17,700.00	7,870.00	17,700.00	7,829.50	145.52	173.42	89.72	-6,123.78	-1,224.64	6,369.42	6,070.15	299.27	21.283		
17,800.00	7,870.00	15,332.00	7,829.54	146.84	132.72	89.72	-6,259.62	-1,225.41	6,369.44	6,108.93	260.51	24.450		
17,801.96	7,870.00	15,358.52	7,829.54	146.87	133.18	89.72	-6,286.15	-1,225.43	6,369.29	6,108.09	261.20	24.384		
17,900.00	7,870.00	15,391.52	7,830.00	148.18	133.75	89.72	-6,319.14	-1,225.76	6,369.93	6,107.10	262.84	24.235		
18,000.00	7,870.00	15,436.88	7,831.40	149.54	134.53	89.73	-6,364.47	-1,226.72	6,371.61	6,106.82	264.79	24.063		
18,100.00	7,870.00	15,539.87	7,834.71	150.90	136.30	89.76	-6,467.37	-1,229.02	6,373.49	6,105.25	268.24	23.761		
18,200.00	7,870.00	15,699.43	7,837.43	152.28	139.05	89.79	-6,626.87	-1,232.48	6,375.51	6,102.35	273.16	23.340		
18,300.00	7,870.00	15,777.00	7,839.47	153.67	140.39	89.81	-6,704.40	-1,233.67	6,376.70	6,100.74	275.96	23.107		
18,400.00	7,870.00	16,086.42	7,842.08	155.07	145.74	89.83	-7,013.74	-1,235.23	6,377.73	6,093.02	284.72	22.400		
18,500.00	7,870.00	16,134.00	7,843.38	156.49	146.57	89.84	-7,061.30	-1,234.71	6,376.27	6,089.48	286.79	22.233		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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: 177-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,600.00	7,870.00	16,184.56	7,845.00	157.91	147.44	89.86	-7,111.83	-1,234.56	6,375.62	6,086.68	288.93	22.066	
18,639.64	7,870.00	16,205.68	7,845.64	158.48	147.81	89.86	-7,132.94	-1,234.60	6,375.56	6,085.75	289.80	22.000	
18,700.00	7,870.00	16,238.64	7,846.55	159.35	148.38	89.87	-7,165.89	-1,234.79	6,375.69	6,084.54	291.15	21.899	
18,800.00	7,870.00	16,294.80	7,847.23	160.79	149.35	89.88	-7,222.04	-1,235.41	6,376.46	6,083.07	293.40	21.733	
18,900.00	7,870.00	16,369.33	7,847.21	162.25	150.64	89.88	-7,296.56	-1,236.69	6,377.83	6,081.70	296.12	21.538	
19,000.00	7,870.00	16,558.64	7,850.85	163.71	153.92	89.91	-7,485.81	-1,238.78	6,378.54	6,076.66	301.88	21.129	
19,100.00	7,870.00	16,695.04	7,856.62	165.18	156.29	89.96	-7,622.09	-1,238.84	6,378.20	6,071.95	306.26	20.826	
19,200.00	7,870.00	16,769.43	7,858.30	166.66	157.59	89.98	-7,696.46	-1,238.98	6,378.03	6,069.02	309.01	20.640	
19,300.00	7,870.00	16,920.33	7,861.79	168.15	160.21	90.01	-7,847.32	-1,238.42	6,377.19	6,063.42	313.76	20.325	
19,400.00	7,870.00	16,973.52	7,863.07	169.65	161.14	90.02	-7,900.49	-1,238.29	6,376.66	6,060.69	315.97	20.181	
19,413.19	7,870.00	16,979.52	7,863.15	169.84	161.24	90.02	-7,906.48	-1,238.31	6,376.65	6,060.42	316.23	20.164	
19,500.00	7,870.00	17,025.00	7,863.27	171.15	162.03	90.02	-7,951.97	-1,238.66	6,376.98	6,058.86	318.11	20.046	
19,600.00	7,870.00	17,272.01	7,869.33	172.66	166.34	90.07	-8,198.87	-1,237.47	6,375.71	6,050.31	325.39	19.594	
19,700.00	7,870.00	17,354.46	7,869.69	174.18	167.78	90.08	-8,281.31	-1,236.49	6,374.19	6,045.81	328.38	19.411	
19,800.00	7,870.00	17,471.00	7,867.23	175.70	169.81	90.06	-8,397.81	-1,234.93	6,372.48	6,040.25	332.23	19.181	
19,889.26	7,870.00	17,471.00	7,867.23	177.06	169.81	90.06	-8,397.81	-1,234.93	6,371.64	6,038.67	332.97	19.136 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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	-54.92	787.25	-1,121.09	1,369.93					
100.00	100.00	89.96	89.96	0.13	0.15	-54.92	787.29	-1,121.11	1,369.93	1,369.65	0.28	4,823.587		
200.00	200.00	188.82	188.82	0.49	0.31	-54.92	787.41	-1,121.16	1,370.05	1,369.24	0.81	1,698.057		
300.00	300.00	287.68	287.68	0.85	0.48	-54.91	787.63	-1,121.26	1,370.25	1,368.92	1.33	1,030.527 ES		
400.00	399.98	383.70	383.70	1.21	0.76	-123.09	788.01	-1,121.41	1,371.56	1,369.59	1.97	696.283		
500.00	499.84	478.36	478.36	1.56	1.10	-123.18	788.81	-1,121.67	1,375.14	1,372.48	2.67	515.891		
600.00	599.45	572.79	572.78	1.93	1.44	-123.33	790.05	-1,122.07	1,381.03	1,377.66	3.37	409.908		
700.00	698.70	675.13	675.11	2.32	1.81	-123.59	791.66	-1,122.47	1,388.99	1,384.88	4.11	337.792		
800.00	797.47	762.60	762.56	2.72	2.12	-123.85	793.03	-1,123.07	1,399.21	1,394.39	4.82	290.430		
900.00	895.62	861.37	861.30	3.16	2.48	-124.24	795.01	-1,123.97	1,411.90	1,406.32	5.58	252.916		
1,000.00	993.06	967.84	967.76	3.63	2.86	-124.75	796.89	-1,124.51	1,426.26	1,419.86	6.40	222.950		
1,100.00	1,089.64	1,065.02	1,064.87	4.14	3.21	-125.18	800.37	-1,123.63	1,442.58	1,435.37	7.20	200.260		
1,200.00	1,185.27	1,174.27	1,173.99	4.70	3.60	-125.72	805.24	-1,121.63	1,460.82	1,452.74	8.08	180.753		
1,300.00	1,279.82	1,276.57	1,276.15	5.31	3.96	-126.25	809.82	-1,118.73	1,480.49	1,471.53	8.97	165.132		
1,400.00	1,373.17	1,363.04	1,362.42	5.97	4.27	-126.65	814.78	-1,115.77	1,502.61	1,492.78	9.83	152.937		
1,500.00	1,465.21	1,454.98	1,453.93	6.69	4.61	-127.03	822.57	-1,111.62	1,527.43	1,516.69	10.74	142.170		
1,600.00	1,555.84	1,550.05	1,548.22	7.47	4.97	-127.37	833.29	-1,105.92	1,554.61	1,542.89	11.72	132.667		
1,700.00	1,644.94	1,642.41	1,639.45	8.31	5.33	-127.62	846.02	-1,099.16	1,584.09	1,571.36	12.73	124.456		
1,800.00	1,732.39	1,709.70	1,705.77	9.23	5.60	-127.64	856.29	-1,094.40	1,616.65	1,602.99	13.67	118.298		
1,900.00	1,818.11	1,779.25	1,774.31	10.21	5.88	-127.68	867.35	-1,090.29	1,652.77	1,638.13	14.64	112.880		
2,000.00	1,901.97	1,846.94	1,841.03	11.26	6.16	-127.69	878.34	-1,087.12	1,692.32	1,676.69	15.63	108.248		
2,100.00	1,983.88	1,911.54	1,904.71	12.38	6.43	-127.65	888.98	-1,084.89	1,735.30	1,718.66	16.63	104.343		
2,200.00	2,063.74	1,971.20	1,963.53	13.57	6.67	-127.55	898.89	-1,083.66	1,781.76	1,764.14	17.62	101.135		
2,300.00	2,141.45	2,053.35	2,044.53	14.84	7.01	-127.71	912.52	-1,082.76	1,831.33	1,812.58	18.75	97.676		
2,327.78	2,162.65	2,079.46	2,070.28	15.21	7.12	-127.80	916.81	-1,082.39	1,845.44	1,826.36	19.09	96.687		
2,400.00	2,217.51	2,191.28	2,180.42	16.17	7.60	-129.21	935.72	-1,078.35	1,881.24	1,861.02	20.23	93.005		
2,500.00	2,293.49	2,266.81	2,254.68	17.51	7.92	-130.09	948.97	-1,074.71	1,930.71	1,909.37	21.35	90.442		
2,600.00	2,369.47	2,348.06	2,334.58	18.86	8.28	-130.99	963.25	-1,070.91	1,980.75	1,958.25	22.49	88.056		
2,700.00	2,445.45	2,423.31	2,408.64	20.22	8.60	-131.80	976.17	-1,067.64	2,031.32	2,007.73	23.59	86.107		
2,800.00	2,521.42	2,501.15	2,485.32	21.59	8.94	-132.62	989.18	-1,064.58	2,082.49	2,057.80	24.69	84.352		
2,900.00	2,597.40	2,597.59	2,580.38	22.97	9.36	-133.60	1,005.03	-1,060.86	2,134.07	2,108.18	25.89	82.423		
3,000.00	2,673.38	2,763.17	2,743.33	24.34	10.09	-135.13	1,031.94	-1,049.38	2,183.10	2,155.57	27.53	79.297		
3,100.00	2,749.36	2,809.37	2,788.68	25.73	10.29	-135.52	1,039.94	-1,045.73	2,232.28	2,203.86	28.42	78.548		
3,200.00	2,825.33	2,864.40	2,842.79	27.11	10.54	-135.98	1,049.38	-1,042.33	2,283.02	2,253.68	29.34	77.813		
3,300.00	2,901.31	2,927.56	2,905.04	28.50	10.82	-136.51	1,059.57	-1,039.17	2,334.80	2,304.51	30.29	77.080		
3,400.00	2,977.29	2,997.73	2,974.36	29.90	11.12	-137.11	1,070.06	-1,036.32	2,387.36	2,356.10	31.26	76.367		
3,500.00	3,053.27	3,500.00	3,140.50	31.29	13.23	-138.54	1,091.83	-1,027.19	2,438.55	2,404.32	34.23	71.244		
3,600.00	3,129.24	3,255.65	3,229.45	32.69	12.21	-139.24	1,104.26	-1,020.11	2,488.37	2,454.45	33.91	73.372		
3,700.00	3,205.22	3,318.53	3,291.44	34.08	12.48	-139.69	1,113.68	-1,015.50	2,539.09	2,504.27	34.82	72.918		
3,800.00	3,281.20	3,391.11	3,363.17	35.48	12.80	-140.21	1,123.75	-1,010.86	2,590.60	2,554.83	35.77	72.415		
3,900.00	3,357.18	3,476.74	3,447.61	36.88	13.17	-140.78	1,136.77	-1,005.04	2,642.21	2,605.39	36.82	71.767		
4,000.00	3,433.15	3,543.00	3,512.98	38.29	13.46	-141.22	1,146.70	-1,000.87	2,694.36	2,656.65	37.72	71.435		
4,100.00	3,509.13	3,604.18	3,573.48	39.69	13.72	-141.62	1,155.17	-997.56	2,747.26	2,708.71	38.56	71.252		
4,200.00	3,585.11	4,200.00	3,673.34	41.09	16.21	-142.30	1,167.79	-992.18	2,800.23	2,758.53	41.70	67.159		
4,300.00	3,661.08	3,784.06	3,751.59	42.50	14.48	-142.80	1,178.14	-987.43	2,852.93	2,812.34	40.59	70.287		
4,400.00	3,737.06	3,842.05	3,808.80	43.90	14.73	-143.13	1,187.10	-984.26	2,906.52	2,865.12	41.40	70.208		
4,500.00	3,813.04	3,899.00	3,864.86	45.31	14.99	-143.42	1,196.72	-981.45	2,960.86	2,918.66	42.20	70.161		
4,600.00	3,889.02	3,948.24	3,913.37	46.71	15.20	-143.67	1,204.94	-979.50	3,016.10	2,973.17	42.93	70.260		
4,700.00	3,964.99	4,003.45	3,967.94	48.12	15.44	-143.98	1,213.20	-978.13	3,072.38	3,028.70	43.68	70.339		
4,800.00	4,040.97	4,118.54	4,081.74	49.53	15.94	-144.59	1,230.04	-974.86	3,128.50	3,083.62	44.88	69.703		
4,900.00	4,116.95	4,270.49	4,231.34	50.94	16.62	-145.27	1,255.76	-967.92	3,183.70	3,137.28	46.42	68.590		
5,000.00	4,192.93	4,311.99	4,272.16	52.35	16.80	-145.45	1,262.92	-965.89	3,238.48	3,191.41	47.08	68.791		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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	4,268.90	4,382.57	4,341.59	53.76	17.12	-145.74	1,275.27	-962.87	3,293.99	3,246.03	47.97	68.674		
5,200.00	4,344.88	4,482.78	4,440.12	55.16	17.58	-146.13	1,292.93	-958.26	3,349.35	3,300.26	49.10	68.219		
5,300.00	4,420.86	4,524.34	4,481.05	56.57	17.76	-146.30	1,299.94	-956.61	3,405.16	3,355.42	49.73	68.471		
5,400.00	4,496.84	4,635.85	4,591.08	57.98	18.26	-146.76	1,317.66	-952.66	3,461.53	3,410.61	50.92	67.980		
5,500.00	4,572.81	4,807.50	4,760.43	59.39	19.01	-147.44	1,343.66	-942.64	3,515.78	3,463.22	52.56	66.892		
5,600.00	4,648.79	4,980.53	4,929.94	60.81	19.82	-147.99	1,374.71	-927.10	3,567.33	3,513.05	54.28	65.725		
5,700.00	4,724.77	5,043.81	4,991.89	62.22	20.12	-148.18	1,386.13	-921.12	3,619.07	3,563.95	55.12	65.662		
5,800.00	4,800.74	5,090.00	5,037.21	63.63	20.34	-148.32	1,394.07	-917.07	3,671.47	3,615.66	55.81	65.790		
5,900.00	4,876.72	5,150.57	5,096.81	65.04	20.61	-148.52	1,403.77	-912.31	3,724.58	3,667.99	56.58	65.823		
6,000.00	4,952.70	5,301.63	5,245.74	66.45	21.28	-149.04	1,425.80	-900.01	3,777.37	3,719.33	58.03	65.088		
6,100.00	5,028.68	5,357.00	5,300.35	67.86	21.53	-149.23	1,433.59	-895.26	3,829.84	3,771.09	58.75	65.184		
6,200.00	5,104.65	5,428.44	5,370.75	69.27	21.85	-149.46	1,444.21	-889.48	3,882.83	3,823.23	59.60	65.147		
6,300.00	5,180.63	5,488.41	5,429.74	70.69	22.12	-149.64	1,453.99	-884.79	3,936.19	3,875.82	60.37	65.205		
6,400.00	5,256.61	5,543.62	5,484.10	72.10	22.37	-149.80	1,462.84	-880.87	3,990.18	3,929.09	61.09	65.320		
6,500.00	5,332.59	5,600.87	5,540.58	73.51	22.62	-149.97	1,471.41	-877.22	4,044.77	3,982.96	61.80	65.445		
6,600.00	5,408.56	5,656.66	5,595.72	74.92	22.87	-150.15	1,479.25	-874.03	4,099.94	4,037.44	62.50	65.599		
6,700.00	5,484.54	5,714.00	5,652.27	76.34	23.12	-150.31	1,488.29	-871.09	4,155.69	4,092.47	63.21	65.739		
6,800.00	5,560.52	5,754.28	5,691.96	77.75	23.30	-150.41	1,494.91	-869.34	4,212.12	4,148.34	63.78	66.037		
6,900.00	5,636.50	5,803.00	5,740.06	79.16	23.51	-150.55	1,502.50	-867.72	4,269.38	4,204.96	64.41	66.280		
7,000.00	5,712.47	5,875.96	5,812.01	80.57	23.84	-150.74	1,514.39	-865.62	4,327.09	4,261.83	65.26	66.305		
7,100.00	5,788.45	5,933.97	5,869.10	81.99	24.09	-150.87	1,524.57	-863.99	4,384.95	4,318.97	65.98	66.457		
7,200.00	5,864.43	6,138.75	6,071.42	83.40	24.98	-151.42	1,554.86	-855.72	4,441.51	4,373.58	67.92	65.389		
7,300.00	5,940.40	6,187.08	6,119.23	84.81	25.19	-151.55	1,561.53	-853.37	4,497.72	4,429.19	68.53	65.629		
7,400.00	6,016.38	6,230.95	6,162.69	86.23	25.37	-151.68	1,567.22	-851.60	4,554.63	4,485.54	69.09	65.921		
7,500.00	6,092.36	6,303.44	6,234.59	87.64	25.67	-151.88	1,576.16	-849.15	4,612.10	4,542.22	69.87	66.005		
7,600.00	6,168.34	6,377.38	6,307.86	89.05	25.98	-152.08	1,585.72	-846.60	4,669.58	4,598.90	70.68	66.070		
7,700.00	6,244.31	6,487.55	6,416.71	90.47	26.46	-152.34	1,602.31	-842.91	4,727.26	4,655.45	71.82	65.822		
7,800.00	6,320.29	6,624.42	6,551.44	91.88	27.08	-152.61	1,625.48	-836.28	4,783.52	4,710.29	73.24	65.315		
7,900.00	6,396.27	7,140.00	7,060.46	93.30	29.04	-154.19	1,663.30	-790.26	4,839.02	4,762.24	76.77	63.029		
8,000.00	6,472.25	7,140.00	7,060.46	94.71	29.04	-154.19	1,663.30	-790.26	4,888.69	4,811.61	77.07	63.429		
8,100.00	6,548.22	7,140.00	7,060.46	96.12	29.04	-154.19	1,663.30	-790.26	4,939.88	4,862.54	77.35	63.867		
8,200.00	6,624.20	7,180.29	7,099.92	97.54	29.11	-154.42	1,656.96	-785.27	4,991.29	4,913.63	77.66	64.268		
8,300.00	6,700.18	7,189.79	7,109.20	98.95	29.13	-154.48	1,655.06	-784.42	5,044.72	4,966.81	77.91	64.750		
8,400.00	6,776.16	7,229.00	7,147.18	100.37	29.19	-154.75	1,645.66	-782.24	5,100.12	5,021.96	78.17	65.248		
8,500.00	6,852.13	7,229.00	7,147.18	101.78	29.19	-154.75	1,645.66	-782.24	5,155.69	5,077.33	78.37	65.791		
8,600.00	6,928.11	7,229.00	7,147.18	103.20	29.19	-154.75	1,645.66	-782.24	5,212.58	5,134.04	78.54	66.364		
8,700.00	7,004.09	7,229.00	7,147.18	104.61	29.19	-154.75	1,645.66	-782.24	5,270.76	5,192.06	78.71	66.968		
8,800.00	7,080.06	7,229.00	7,147.18	106.02	29.19	-154.75	1,645.66	-782.24	5,330.18	5,251.33	78.85	67.600		
8,900.00	7,156.04	7,229.00	7,147.18	107.44	29.19	-154.75	1,645.66	-782.24	5,390.80	5,311.82	78.98	68.259		
9,000.00	7,232.02	7,229.00	7,147.18	108.85	29.19	-154.75	1,645.66	-782.24	5,452.58	5,373.49	79.09	68.944		
9,104.68	7,311.55	7,274.44	7,190.51	110.33	29.22	-155.09	1,632.00	-781.66	5,517.47	5,438.25	79.22	69.650		
9,150.00	7,346.29	7,280.04	7,195.79	110.97	29.23	-164.07	1,630.14	-781.69	5,546.26	5,467.00	79.26	69.977		
9,200.00	7,385.15	7,318.00	7,231.21	111.65	29.25	-174.59	1,616.52	-782.48	5,578.94	5,499.65	79.29	70.362		
9,250.00	7,424.29	7,318.00	7,231.21	112.31	29.25	-174.92	1,616.52	-782.48	5,611.17	5,531.86	79.31	70.751		
9,300.00	7,463.40	7,318.00	7,231.21	112.93	29.25	-164.47	1,616.52	-782.48	5,643.39	5,564.08	79.31	71.153		
9,350.00	7,502.19	7,318.00	7,231.21	113.51	29.25	-154.33	1,616.52	-782.48	5,675.37	5,596.07	79.30	71.566		
9,400.00	7,540.36	7,318.00	7,231.21	114.04	29.25	-144.72	1,616.52	-782.48	5,706.87	5,627.59	79.28	71.986		
9,450.00	7,577.62	7,318.00	7,231.21	114.53	29.25	-135.81	1,616.52	-782.48	5,737.64	5,658.40	79.24	72.407		
9,500.00	7,613.70	7,318.00	7,231.21	114.95	29.25	-127.69	1,616.52	-782.48	5,767.49	5,688.29	79.20	72.824		
9,550.00	7,648.30	7,353.83	7,264.02	115.32	29.26	-120.51	1,602.22	-783.85	5,795.88	5,716.75	79.13	73.247		
9,600.00	7,681.18	7,368.64	7,277.43	115.63	29.26	-114.13	1,595.94	-784.50	5,822.93	5,743.86	79.07	73.645		
9,650.00	7,712.08	7,408.00	7,312.55	115.88	29.26	-108.65	1,578.29	-786.47	5,848.49	5,769.51	78.98	74.052		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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		
9,700.00	7,740.76	7,408.00	7,312.55	116.08	29.26	103.76	1,578.29	-786.47	5,871.99	5,793.05	78.95	74.380		
9,750.00	7,767.01	9,750.00	7,435.84	116.23	29.08	100.20	1,491.66	-791.74	5,893.36	5,816.49	76.88	76.659		
9,800.00	7,790.63	7,586.00	7,456.15	116.33	29.15	96.80	1,474.48	-792.23	5,911.82	5,833.53	78.29	75.515		
9,850.00	7,811.44	7,586.00	7,456.15	116.38	29.15	93.87	1,474.48	-792.23	5,928.12	5,849.81	78.31	75.700		
9,900.00	7,829.28	7,586.00	7,456.15	116.38	29.15	91.46	1,474.48	-792.23	5,942.21	5,863.85	78.36	75.833		
9,950.00	7,844.01	7,625.32	7,482.75	116.35	29.10	89.71	1,445.55	-792.75	5,953.24	5,875.05	78.19	76.138		
10,000.00	7,855.52	7,632.71	7,487.52	116.28	29.09	88.28	1,439.91	-792.97	5,962.36	5,884.11	78.25	76.197		
10,050.00	7,863.72	7,675.00	7,513.28	116.18	29.03	87.46	1,406.45	-795.02	5,969.61	5,891.51	78.09	76.441		
10,100.00	7,868.56	7,675.00	7,513.28	116.06	29.03	86.86	1,406.45	-795.02	5,973.52	5,895.25	78.27	76.317		
10,145.94	7,870.00	7,675.00	7,513.28	115.92	29.03	86.66	1,406.45	-795.02	5,974.93	5,896.46	78.47	76.145		
10,200.00	7,870.00	7,675.00	7,513.28	115.76	29.03	86.66	1,406.45	-795.02	5,975.60	5,896.88	78.72	75.909		
10,300.00	7,870.00	8,171.66	7,692.83	115.46	28.82	88.38	948.47	-795.43	5,971.39	5,895.85	75.55	79.042		
10,400.00	7,870.00	8,237.92	7,700.61	115.18	28.92	88.46	882.73	-793.25	5,967.40	5,891.76	75.64	78.892		
10,500.00	7,870.00	10,500.00	7,698.85	114.91	51.40	88.44	658.47	-783.63	5,963.02	5,877.17	85.86	69.454		
10,600.00	7,870.00	8,535.38	7,698.36	114.65	30.00	88.43	585.69	-779.56	5,957.21	5,881.74	75.47	78.937		
10,700.00	7,870.00	8,566.00	7,698.30	114.41	30.16	88.43	555.11	-778.11	5,952.34	5,876.39	75.95	78.372		
10,800.00	7,870.00	8,612.43	7,698.50	114.17	30.44	88.43	508.71	-776.39	5,948.45	5,871.98	76.47	77.787		
10,900.00	7,870.00	8,655.00	7,699.12	113.95	30.70	88.44	466.16	-775.43	5,945.71	5,868.68	77.03	77.186		
11,000.00	7,870.00	11,000.00	7,701.53	113.75	49.52	88.46	371.06	-773.67	5,943.45	5,850.24	93.21	63.764		
11,100.00	7,870.00	8,783.91	7,702.70	113.55	31.63	88.47	337.32	-773.21	5,941.72	5,863.34	78.38	75.807		
11,200.00	7,870.00	8,833.00	7,704.58	113.37	32.00	88.49	288.26	-773.30	5,941.23	5,862.11	79.12	75.091		
11,216.92	7,870.00	8,833.00	7,704.58	113.34	32.00	88.49	288.26	-773.30	5,941.21	5,861.97	79.24	74.979		
11,300.00	7,870.00	8,833.00	7,704.58	113.20	32.00	88.49	288.26	-773.30	5,941.79	5,861.99	79.80	74.461		
11,400.00	7,870.00	8,885.70	7,706.45	113.04	32.44	88.51	235.61	-774.27	5,943.38	5,862.75	80.63	73.714		
11,500.00	7,870.00	8,922.00	7,707.41	112.89	32.74	88.52	199.34	-775.41	5,946.11	5,864.67	81.44	73.013		
11,600.00	7,870.00	9,127.55	7,711.61	112.76	34.64	88.56	-6.05	-781.80	5,949.20	5,866.16	83.04	71.640		
11,700.00	7,870.00	9,310.59	7,713.61	112.64	36.56	88.58	-189.08	-783.62	5,949.69	5,864.73	84.96	70.030		
11,800.00	7,870.00	9,448.70	7,711.85	112.53	38.12	88.56	-327.17	-783.94	5,949.68	5,862.87	86.81	68.537		
11,900.00	7,870.00	9,574.24	7,708.86	112.44	39.63	88.53	-452.67	-782.66	5,948.25	5,859.52	88.73	67.037		
12,000.00	7,870.00	9,634.00	7,707.61	112.36	40.36	88.52	-512.41	-782.86	5,948.03	5,857.93	90.09	66.021		
12,017.63	7,870.00	9,634.00	7,707.61	112.34	40.36	88.52	-512.41	-782.86	5,948.00	5,857.77	90.23	65.919		
12,100.00	7,870.00	9,697.95	7,706.46	112.29	41.16	88.51	-576.35	-783.49	5,948.47	5,856.93	91.55	64.978		
12,200.00	7,870.00	12,200.00	7,704.11	112.24	74.27	88.49	-759.66	-783.05	5,947.81	5,822.68	125.12	47.536		
12,300.00	7,870.00	9,901.00	7,703.92	112.20	43.81	88.49	-779.38	-782.90	5,947.26	5,851.76	95.50	62.276		
12,321.79	7,870.00	9,932.82	7,703.68	112.19	44.24	88.48	-811.20	-782.77	5,947.01	5,850.93	96.08	61.896		
12,400.00	7,870.00	9,952.06	7,703.54	112.17	44.49	88.48	-830.43	-782.94	5,947.47	5,850.52	96.94	61.350		
12,500.00	7,870.00	9,990.00	7,703.26	112.16	45.00	88.48	-868.36	-783.84	5,949.24	5,851.01	98.23	60.563		
12,600.00	7,870.00	10,054.20	7,702.65	112.17	45.88	88.47	-932.52	-785.89	5,951.96	5,852.07	99.89	59.583		
12,700.00	7,870.00	10,459.24	7,712.16	112.19	51.66	88.57	-1,337.34	-787.34	5,951.31	5,844.45	106.86	55.694		
12,800.00	7,870.00	10,525.00	7,713.22	112.23	52.63	88.58	-1,403.09	-786.34	5,949.33	5,840.58	108.75	54.705		
12,900.00	7,870.00	10,614.00	7,713.39	112.28	53.96	88.58	-1,492.08	-784.96	5,947.47	5,836.40	111.06	53.549		
13,000.00	7,870.00	10,670.30	7,713.40	112.36	54.81	88.58	-1,548.37	-784.24	5,946.00	5,833.15	112.85	52.692		
13,100.00	7,870.00	10,723.48	7,713.57	112.45	55.61	88.58	-1,601.56	-784.25	5,945.59	5,831.00	114.59	51.887		
13,200.00	7,870.00	10,882.00	7,715.10	112.56	58.03	88.59	-1,760.06	-783.70	5,944.82	5,826.56	118.26	50.268		
13,300.00	7,870.00	10,936.78	7,715.90	112.68	58.87	88.60	-1,814.83	-783.33	5,943.92	5,823.83	120.09	49.495		
13,327.10	7,870.00	10,947.38	7,716.02	112.72	59.04	88.60	-1,825.43	-783.35	5,943.87	5,823.36	120.51	49.322		
13,400.00	7,870.00	10,997.00	7,716.43	112.83	59.80	88.61	-1,875.05	-783.70	5,944.08	5,822.04	122.03	48.709		
13,500.00	7,870.00	11,089.34	7,717.18	113.00	61.24	88.61	-1,967.39	-784.10	5,944.18	5,819.57	124.60	47.705		
13,600.00	7,870.00	11,149.00	7,716.73	113.19	62.16	88.61	-2,027.04	-784.97	5,945.19	5,818.63	126.56	46.976		
13,700.00	7,870.00	11,238.00	7,715.42	113.40	63.56	88.60	-2,116.02	-786.26	5,946.34	5,817.24	129.10	46.059		
13,800.00	7,870.00	11,300.76	7,714.79	113.63	64.54	88.59	-2,178.77	-787.21	5,947.70	5,816.56	131.15	45.351		
13,900.00	7,870.00	11,458.19	7,714.46	113.89	67.03	88.59	-2,336.16	-790.66	5,949.79	5,814.65	135.14	44.026		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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		
14,000.00	7,870.00	11,536.64	7,714.99	114.18	68.28	88.59	-2,414.60	-791.54	5,950.64	5,813.08	137.56	43.257		
14,100.00	7,870.00	11,595.00	7,715.52	114.48	69.21	88.60	-2,472.94	-793.06	5,952.66	5,813.09	139.58	42.648		
14,200.00	7,870.00	11,645.71	7,716.22	114.82	70.02	88.61	-2,523.61	-794.77	5,955.40	5,813.97	141.43	42.107		
14,300.00	7,870.00	11,970.11	7,717.28	115.18	75.26	88.62	-2,847.93	-799.72	5,957.01	5,807.75	149.25	39.912		
14,400.00	7,870.00	12,040.00	7,716.00	115.57	76.41	88.61	-2,917.81	-799.56	5,956.46	5,804.87	151.59	39.293		
14,442.28	7,870.00	12,059.22	7,715.51	115.75	76.72	88.60	-2,937.02	-799.60	5,956.40	5,804.05	152.35	39.097		
14,500.00	7,870.00	12,100.67	7,714.59	115.99	77.40	88.59	-2,978.46	-799.78	5,956.48	5,802.76	153.72	38.748		
14,600.00	7,870.00	14,600.00	7,718.27	116.44	118.97	88.63	-3,251.49	-798.38	5,956.12	5,758.35	197.77	30.116		
14,700.00	7,870.00	12,455.21	7,720.35	116.92	83.27	88.65	-3,332.86	-796.36	5,953.32	5,789.91	163.41	36.432		
14,800.00	7,870.00	12,504.71	7,721.71	117.44	84.09	88.66	-3,382.34	-795.66	5,951.46	5,786.10	165.36	35.991		
14,900.00	7,870.00	12,575.00	7,723.48	117.98	85.27	88.68	-3,452.61	-795.12	5,950.28	5,782.48	167.79	35.462		
14,995.30	7,870.00	12,612.46	7,724.20	118.53	85.89	88.68	-3,490.06	-795.10	5,949.84	5,780.42	169.42	35.120		
15,000.00	7,870.00	12,614.45	7,724.23	118.56	85.92	88.68	-3,492.05	-795.11	5,949.84	5,780.34	169.50	35.102		
15,100.00	7,870.00	12,664.00	7,724.70	119.17	86.75	88.69	-3,541.60	-795.59	5,950.38	5,778.94	171.43	34.710		
15,200.00	7,870.00	12,896.33	7,726.37	119.81	90.64	88.70	-3,773.88	-793.97	5,948.24	5,770.49	177.74	33.465		
15,300.00	7,870.00	12,931.00	7,727.11	120.48	91.22	88.71	-3,808.55	-793.91	5,947.53	5,768.18	179.35	33.161		
15,313.78	7,870.00	12,931.00	7,727.11	120.58	91.22	88.71	-3,808.55	-793.91	5,947.52	5,768.06	179.46	33.142		
15,400.00	7,870.00	12,961.25	7,727.82	121.19	91.73	88.72	-3,838.78	-794.20	5,947.95	5,767.12	180.84	32.891		
15,500.00	7,870.00	13,020.00	7,729.05	121.93	92.71	88.73	-3,897.51	-795.40	5,949.46	5,766.45	183.01	32.509		
15,600.00	7,870.00	13,062.50	7,729.78	122.71	93.42	88.74	-3,939.98	-796.61	5,951.73	5,766.96	184.77	32.211		
15,700.00	7,870.00	13,151.28	7,730.72	123.52	94.90	88.75	-4,028.71	-799.40	5,954.49	5,766.82	187.68	31.727		
15,800.00	7,870.00	13,377.00	7,731.79	124.36	98.69	88.76	-4,254.39	-803.59	5,955.72	5,761.72	194.01	30.699		
15,900.00	7,870.00	13,436.85	7,732.53	125.23	99.70	88.76	-4,314.23	-804.10	5,956.43	5,760.20	196.23	30.354		
16,000.00	7,870.00	13,490.56	7,733.94	126.14	100.61	88.78	-4,367.90	-805.36	5,958.28	5,759.99	198.30	30.047		
16,100.00	7,870.00	16,100.00	7,729.46	127.07	145.05	88.74	-4,672.24	-808.58	5,959.73	5,713.79	245.94	24.233		
16,200.00	7,870.00	13,870.08	7,728.12	128.04	107.04	88.72	-4,747.32	-807.64	5,958.30	5,749.01	209.29	28.468		
16,293.50	7,870.00	13,911.00	7,727.44	128.97	107.74	88.72	-4,788.23	-807.68	5,957.98	5,746.96	211.02	28.234		
16,300.00	7,870.00	13,911.00	7,727.44	129.04	107.74	88.72	-4,788.23	-807.68	5,957.99	5,746.92	211.07	28.227		
16,400.00	7,870.00	13,939.89	7,726.95	130.06	108.23	88.71	-4,817.11	-808.02	5,958.74	5,746.22	212.52	28.038		
16,500.00	7,870.00	14,000.00	7,725.83	131.11	109.25	88.70	-4,877.19	-809.51	5,960.71	5,745.95	214.76	27.756		
16,600.00	7,870.00	14,090.79	7,724.23	132.19	110.79	88.69	-4,967.93	-812.13	5,963.25	5,745.47	217.78	27.382		
16,700.00	7,870.00	16,700.00	7,721.38	133.29	155.40	88.66	-5,205.16	-814.83	5,963.88	5,698.70	265.18	22.490		
16,800.00	7,870.00	14,446.00	7,720.47	134.42	116.85	88.65	-5,323.09	-814.18	5,962.92	5,734.53	228.38	26.109		
16,874.55	7,870.00	14,492.17	7,720.58	135.28	117.64	88.65	-5,369.26	-814.01	5,962.53	5,732.40	230.12	25.910		
16,900.00	7,870.00	14,501.21	7,720.65	135.57	117.80	88.65	-5,378.29	-814.06	5,962.56	5,732.02	230.54	25.864		
17,000.00	7,870.00	14,541.96	7,721.21	136.75	118.50	88.66	-5,419.04	-814.56	5,963.37	5,731.07	232.31	25.670		
17,100.00	7,870.00	14,655.36	7,722.98	137.94	120.44	88.67	-5,532.42	-816.15	5,964.38	5,728.39	235.99	25.274		
17,200.00	7,870.00	14,747.90	7,725.94	139.16	122.02	88.70	-5,624.89	-817.69	5,965.62	5,726.50	239.13	24.947		
17,300.00	7,870.00	14,827.27	7,729.00	140.39	123.38	88.73	-5,704.20	-818.84	5,966.72	5,724.80	241.93	24.663		
17,400.00	7,870.00	14,863.97	7,730.57	141.65	124.01	88.75	-5,740.85	-819.75	5,968.77	5,725.20	243.57	24.506		
17,500.00	7,870.00	14,954.47	7,734.85	142.92	125.56	88.79	-5,831.19	-822.89	5,971.77	5,725.11	246.66	24.211		
17,600.00	7,870.00	15,141.58	7,743.95	144.21	128.77	88.88	-6,018.03	-827.07	5,973.39	5,721.00	252.39	23.667		
17,700.00	7,870.00	15,190.71	7,746.15	145.52	129.61	88.90	-6,067.11	-828.04	5,975.02	5,720.64	254.38	23.489		
17,800.00	7,870.00	15,248.00	7,748.28	146.84	130.59	88.92	-6,124.32	-829.95	5,977.76	5,721.19	256.57	23.299		
17,900.00	7,870.00	17,900.00	7,751.15	148.18	176.04	88.95	-6,208.45	-832.90	5,980.85	5,677.33	303.52	19.705		
18,000.00	7,870.00	15,404.77	7,753.33	149.54	133.28	88.97	-6,280.91	-835.39	5,983.98	5,721.88	262.10	22.831		
18,100.00	7,870.00	15,470.65	7,754.63	150.90	134.41	88.98	-6,346.72	-838.23	5,987.88	5,723.38	264.51	22.638		
18,200.00	7,870.00	15,692.67	7,757.34	152.28	138.21	89.01	-6,568.56	-846.73	5,991.78	5,720.54	271.25	22.090		
18,300.00	7,870.00	15,925.72	7,759.03	153.67	142.23	89.02	-6,801.58	-849.17	5,992.09	5,713.85	278.24	21.536		
18,400.00	7,870.00	16,252.27	7,749.96	155.07	147.91	88.94	-7,127.87	-842.24	5,988.77	5,701.22	287.55	20.827		
18,500.00	7,870.00	16,279.90	7,749.80	156.49	148.39	88.94	-7,155.49	-841.42	5,985.48	5,696.40	289.08	20.705		
18,600.00	7,870.00	16,312.00	7,749.86	157.91	148.95	88.94	-7,187.59	-840.89	5,983.40	5,692.70	290.70	20.583		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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	
18,700.00	7,870.00	16,312.00	7,749.86	159.35	148.95	88.94	-7,187.59	-840.89	5,982.68	5,691.26	291.42	20.529	
18,742.40	7,870.00	16,343.79	7,750.14	159.96	149.50	88.94	-7,219.37	-840.85	5,982.55	5,689.97	292.57	20.448	
18,800.00	7,870.00	16,358.28	7,750.32	160.79	149.75	88.94	-7,233.86	-840.99	5,982.93	5,689.57	293.35	20.395	
18,900.00	7,870.00	16,401.00	7,751.02	162.25	150.49	88.95	-7,276.56	-842.04	5,984.67	5,689.50	295.17	20.276	
19,000.00	7,870.00	16,444.56	7,751.91	163.71	151.24	88.96	-7,320.09	-843.52	5,987.37	5,690.39	296.98	20.161	
19,100.00	7,870.00	16,635.02	7,757.52	165.18	154.53	89.01	-7,510.40	-848.49	5,989.65	5,686.71	302.94	19.772	
19,200.00	7,870.00	16,699.68	7,760.07	166.66	155.65	89.03	-7,575.00	-849.66	5,991.16	5,685.79	305.37	19.620	
19,300.00	7,870.00	16,757.00	7,762.30	168.15	156.64	89.06	-7,632.24	-851.48	5,993.76	5,686.18	307.58	19.487	
19,400.00	7,870.00	16,804.27	7,764.06	169.65	157.46	89.07	-7,679.44	-853.37	5,997.11	5,687.64	309.48	19.378	
19,500.00	7,870.00	16,933.56	7,769.52	171.15	159.69	89.13	-7,808.52	-858.31	6,000.56	5,686.82	313.74	19.126	
19,600.00	7,870.00	17,014.72	7,772.85	172.66	161.09	89.16	-7,889.55	-861.27	6,003.81	5,687.19	316.62	18.962	
19,700.00	7,870.00	17,097.05	7,774.51	174.18	162.51	89.17	-7,971.80	-864.50	6,007.38	5,687.85	319.53	18.801	
19,800.00	7,870.00	17,239.72	7,776.24	175.70	164.97	89.19	-8,114.36	-869.95	6,010.89	5,686.72	324.17	18.542	
19,889.26	7,870.00	17,385.81	7,779.02	177.06	167.50	89.22	-8,260.36	-874.08	6,013.06	5,684.21	328.85	18.285 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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	-53.78	785.71	-1,072.62	1,369.22					
100.00	100.00	318.00	317.99	0.13	0.00	-53.78	785.71	-1,072.62	1,348.84	1,348.43	0.41	3,296.303		
200.00	200.00	318.00	317.99	0.49	0.00	-53.78	785.71	-1,072.62	1,335.65	1,335.12	0.54	2,484.113		
300.00	300.00	318.00	317.99	0.85	0.00	-53.78	785.71	-1,072.62	1,329.88	1,329.03	0.85	1,559.614		
321.67	321.67	318.00	317.99	0.93	0.00	-121.93	785.71	-1,072.62	1,329.66	1,328.73	0.93	1,432.234 CC, ES		
400.00	399.98	389.10	389.09	1.21	0.13	-122.01	785.05	-1,073.29	1,330.68	1,329.35	1.33	997.986		
500.00	499.84	491.74	491.71	1.56	0.31	-122.21	784.07	-1,074.05	1,333.51	1,331.63	1.87	711.795		
600.00	599.45	594.12	594.09	1.93	0.50	-122.50	783.06	-1,074.57	1,338.01	1,335.59	2.42	552.473		
700.00	698.70	680.15	680.11	2.32	0.81	-122.73	783.92	-1,074.26	1,344.90	1,341.79	3.11	432.667		
800.00	797.47	770.33	770.18	2.72	1.12	-122.89	787.97	-1,072.58	1,354.50	1,350.69	3.81	355.321		
900.00	895.62	863.37	862.84	3.16	1.46	-122.97	795.53	-1,069.10	1,366.56	1,362.00	4.56	299.530		
1,000.00	993.06	951.32	950.10	3.63	1.79	-122.97	805.47	-1,064.50	1,381.10	1,375.77	5.33	258.945		
1,100.00	1,089.64	1,038.83	1,036.69	4.14	2.14	-122.96	817.19	-1,059.66	1,398.46	1,392.32	6.15	227.461		
1,200.00	1,185.27	1,134.36	1,130.91	4.70	2.54	-122.96	831.70	-1,053.61	1,418.07	1,411.03	7.04	201.395		
1,300.00	1,279.82	1,226.56	1,221.78	5.31	2.94	-123.00	846.16	-1,047.73	1,439.84	1,431.88	7.96	180.818		
1,400.00	1,373.17	1,339.98	1,333.60	5.97	3.43	-123.24	863.74	-1,040.62	1,463.62	1,454.60	9.02	162.212		
1,500.00	1,465.21	1,439.65	1,431.82	6.69	3.87	-123.46	878.86	-1,032.93	1,487.98	1,477.92	10.06	147.859		
1,600.00	1,555.84	1,519.06	1,509.99	7.47	4.22	-123.57	891.48	-1,026.99	1,514.97	1,503.92	11.05	137.102		
1,700.00	1,644.94	1,624.15	1,613.26	8.31	4.70	-123.89	909.26	-1,019.08	1,544.53	1,532.32	12.21	126.514		
1,800.00	1,732.39	1,740.85	1,728.15	9.23	5.23	-124.42	927.31	-1,009.33	1,574.84	1,561.38	13.46	117.001		
1,900.00	1,818.11	1,808.28	1,794.61	10.21	5.53	-124.53	937.45	-1,004.09	1,607.56	1,593.07	14.49	110.957		
2,000.00	1,901.97	1,876.85	1,862.19	11.26	5.83	-124.65	948.01	-999.45	1,643.60	1,628.06	15.55	105.721		
2,100.00	1,983.88	1,979.12	1,963.01	12.38	6.29	-125.17	963.92	-993.10	1,682.51	1,665.69	16.81	100.069		
2,200.00	2,063.74	2,113.95	2,095.84	13.57	6.89	-126.12	983.82	-981.29	1,721.26	1,702.97	18.29	94.106		
2,300.00	2,141.45	2,186.33	2,167.04	14.84	7.22	-126.30	994.78	-974.26	1,762.07	1,742.62	19.46	90.555		
2,327.78	2,162.65	2,203.58	2,184.00	15.21	7.30	-126.31	997.47	-972.67	1,774.00	1,754.23	19.77	89.728		
2,400.00	2,217.51	2,247.97	2,227.67	16.17	7.51	-126.88	1,004.51	-968.83	1,805.77	1,785.19	20.57	87.776		
2,500.00	2,293.49	2,311.47	2,290.12	17.51	7.80	-127.67	1,014.88	-963.90	1,851.08	1,829.41	21.68	85.388		
2,600.00	2,369.47	2,375.20	2,352.78	18.86	8.09	-128.44	1,025.60	-959.55	1,897.80	1,875.03	22.77	83.357		
2,700.00	2,445.45	2,438.67	2,415.23	20.22	8.38	-129.18	1,036.37	-955.86	1,945.83	1,921.99	23.83	81.642		
2,800.00	2,521.42	2,517.37	2,492.71	21.59	8.74	-130.07	1,049.61	-951.91	1,994.87	1,969.89	24.98	79.867		
2,900.00	2,597.40	2,592.96	2,567.21	22.97	9.07	-130.92	1,061.85	-948.27	2,044.36	2,018.29	26.08	78.392		
3,000.00	2,673.38	2,660.62	2,634.07	24.34	9.37	-131.68	1,071.90	-945.83	2,094.84	2,067.74	27.10	77.305		
3,100.00	2,749.36	2,826.42	2,797.84	25.73	10.09	-133.41	1,096.34	-937.65	2,145.09	2,116.34	28.74	74.631		
3,200.00	2,825.33	2,901.59	2,871.93	27.11	10.42	-134.13	1,107.75	-932.00	2,193.41	2,163.60	29.81	73.585		
3,300.00	2,901.31	3,023.05	2,991.99	28.50	10.95	-135.30	1,123.68	-922.89	2,241.62	2,210.50	31.13	72.020		
3,400.00	2,977.29	3,098.83	3,067.11	29.90	11.26	-136.04	1,131.80	-917.14	2,289.58	2,257.46	32.12	71.280		
3,500.00	3,053.27	3,220.75	3,187.91	31.29	11.77	-137.19	1,144.71	-906.98	2,337.28	2,303.91	33.37	70.032		
3,600.00	3,129.24	3,333.77	3,299.39	32.69	12.27	-138.12	1,159.11	-895.30	2,384.17	2,349.56	34.61	68.888		
3,700.00	3,205.22	3,414.76	3,378.98	34.08	12.64	-138.71	1,170.86	-885.97	2,430.71	2,395.05	35.66	68.159		
3,800.00	3,281.20	3,475.70	3,438.95	35.48	12.91	-139.16	1,179.46	-879.42	2,478.07	2,441.51	36.57	67.766		
3,900.00	3,357.18	3,526.40	3,488.99	36.88	13.14	-139.54	1,186.14	-874.72	2,526.71	2,489.33	37.38	67.600		
4,000.00	3,433.15	3,601.83	3,563.59	38.29	13.46	-140.10	1,195.52	-868.62	2,576.41	2,538.08	38.32	67.226		
4,100.00	3,509.13	3,766.07	3,725.39	39.69	14.20	-141.21	1,217.90	-851.78	2,624.51	2,584.64	39.88	65.816		
4,200.00	3,585.11	3,827.51	3,785.88	41.09	14.48	-141.61	1,226.20	-844.92	2,672.34	2,631.60	40.74	65.594		
4,300.00	3,661.08	3,874.94	3,832.74	42.50	14.68	-141.92	1,232.01	-840.34	2,721.38	2,679.90	41.48	65.605		
4,400.00	3,737.06	3,927.37	3,884.66	43.90	14.91	-142.28	1,237.85	-836.08	2,771.71	2,729.48	42.23	65.638		
4,500.00	3,813.04	3,988.00	3,944.76	45.31	15.16	-142.69	1,244.59	-831.71	2,823.03	2,780.02	43.01	65.638		
4,600.00	3,889.02	4,055.36	4,011.38	46.71	15.45	-143.10	1,253.38	-827.11	2,875.08	2,831.23	43.85	65.563		
4,700.00	3,964.99	4,109.87	4,065.08	48.12	15.69	-143.39	1,261.99	-823.46	2,927.79	2,883.17	44.61	65.627		
4,800.00	4,040.97	4,166.00	4,120.40	49.53	15.94	-143.69	1,271.01	-820.44	2,981.62	2,936.24	45.38	65.703		
4,900.00	4,116.95	4,291.58	4,244.22	50.94	16.50	-144.33	1,290.47	-812.79	3,034.91	2,988.22	46.68	65.011		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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	4,192.93	4,362.59	4,314.47	52.35	16.81	-144.72	1,299.89	-808.56	3,088.27	3,040.74	47.53	64.977		
5,100.00	4,268.90	4,480.69	4,431.28	53.76	17.32	-145.33	1,315.44	-800.69	3,141.15	3,092.44	48.72	64.478		
5,200.00	4,344.88	4,542.87	4,492.68	55.16	17.59	-145.63	1,324.25	-796.41	3,194.13	3,144.64	49.50	64.531		
5,300.00	4,420.86	4,658.48	4,606.42	56.57	18.12	-146.12	1,343.11	-787.94	3,247.04	3,196.30	50.73	64.004		
5,400.00	4,496.84	4,722.83	4,669.69	57.98	18.42	-146.38	1,353.81	-783.09	3,299.87	3,248.32	51.56	64.007		
5,500.00	4,572.81	4,777.68	4,723.75	59.39	18.66	-146.61	1,362.31	-779.38	3,353.37	3,301.09	52.28	64.143		
5,600.00	4,648.79	5,600.00	4,920.87	60.81	22.46	-147.40	1,393.07	-763.90	3,406.47	3,349.52	56.95	59.818		
5,700.00	4,724.77	5,049.68	4,991.53	62.22	19.90	-147.68	1,404.00	-756.69	3,457.43	3,402.42	55.02	62.842		
5,800.00	4,800.74	5,088.00	5,029.32	63.63	20.08	-147.83	1,409.42	-753.35	3,509.49	3,453.88	55.60	63.115		
5,900.00	4,876.72	5,149.21	5,089.85	65.04	20.34	-148.08	1,417.24	-748.67	3,562.41	3,506.07	56.34	63.235		
6,000.00	4,952.70	5,414.17	5,351.58	66.45	21.49	-149.14	1,449.61	-723.85	3,614.65	3,556.11	58.53	61.754		
6,100.00	5,028.68	5,481.74	5,418.01	67.86	21.80	-149.38	1,458.68	-715.49	3,663.85	3,604.51	59.34	61.743		
6,200.00	5,104.65	5,533.00	5,468.45	69.27	22.03	-149.55	1,465.76	-709.67	3,713.94	3,653.92	60.02	61.874		
6,300.00	5,180.63	5,567.77	5,502.68	70.69	22.19	-149.67	1,470.70	-706.10	3,765.05	3,704.47	60.58	62.154		
6,400.00	5,256.61	5,623.00	5,557.09	72.10	22.44	-149.85	1,478.83	-701.25	3,817.37	3,756.09	61.28	62.296		
6,500.00	5,332.59	5,645.04	5,578.83	73.51	22.54	-149.92	1,482.06	-699.58	3,870.55	3,808.85	61.70	62.732		
6,600.00	5,408.56	5,688.50	5,621.78	74.92	22.73	-150.06	1,487.98	-696.62	3,924.76	3,862.48	62.28	63.023		
6,700.00	5,484.54	5,736.03	5,668.87	76.34	22.93	-150.23	1,493.87	-693.88	3,979.83	3,916.97	62.86	63.308		
6,800.00	5,560.52	5,788.89	5,721.27	77.75	23.15	-150.41	1,500.30	-691.23	4,035.59	3,972.10	63.48	63.568		
6,900.00	5,636.50	6,063.06	5,991.92	79.16	24.35	-151.24	1,538.59	-670.70	4,088.65	4,022.72	65.94	62.007		
7,000.00	5,712.47	6,115.48	6,043.39	80.57	24.60	-151.36	1,547.25	-665.89	4,141.21	4,074.58	66.62	62.158		
7,100.00	5,788.45	6,157.00	6,084.12	81.99	24.80	-151.46	1,554.52	-662.40	4,194.51	4,127.30	67.21	62.406		
7,200.00	5,864.43	6,198.50	6,124.88	83.40	24.99	-151.55	1,561.73	-659.32	4,248.68	4,180.89	67.79	62.673		
7,300.00	5,940.40	6,246.00	6,171.66	84.81	25.21	-151.66	1,569.42	-656.47	4,303.86	4,235.45	68.41	62.915		
7,400.00	6,016.38	6,274.59	6,199.89	86.23	25.33	-151.74	1,573.74	-655.05	4,359.85	4,291.01	68.84	63.337		
7,500.00	6,092.36	7,500.00	6,291.24	87.64	30.47	-151.99	1,566.14	-651.04	4,416.58	4,342.10	74.49	59.292		
7,600.00	6,168.34	6,638.94	6,560.11	89.05	26.90	-152.72	1,622.04	-630.56	4,469.78	4,397.57	72.21	61.903		
7,700.00	6,244.31	6,692.00	6,612.37	90.47	27.14	-152.84	1,629.96	-625.92	4,522.92	4,450.06	72.86	62.074		
7,800.00	6,320.29	6,724.31	6,644.20	91.88	27.29	-152.91	1,634.87	-623.39	4,576.84	4,503.50	73.34	62.405		
7,900.00	6,396.27	7,098.39	7,013.17	93.30	28.65	-154.23	1,652.15	-584.75	4,628.85	4,553.06	75.79	61.076		
8,000.00	6,472.25	7,138.00	7,051.53	94.71	28.73	-154.51	1,643.40	-580.34	4,679.19	4,603.11	76.07	61.510		
8,100.00	6,548.22	7,138.00	7,051.53	96.12	28.73	-154.51	1,643.40	-580.34	4,730.22	4,653.90	76.31	61.984		
8,200.00	6,624.20	7,138.00	7,051.53	97.54	28.73	-154.51	1,643.40	-580.34	4,782.79	4,706.27	76.53	62.497		
8,300.00	6,700.18	7,138.00	7,051.53	98.95	28.73	-154.51	1,643.40	-580.34	4,836.87	4,760.15	76.72	63.046		
8,400.00	6,776.16	7,138.00	7,051.53	100.37	28.73	-154.51	1,643.40	-580.34	4,892.39	4,815.50	76.89	63.630		
8,500.00	6,852.13	7,138.00	7,051.53	101.78	28.73	-154.51	1,643.40	-580.34	4,949.31	4,872.27	77.04	64.247		
8,600.00	6,928.11	7,138.00	7,051.53	103.20	28.73	-154.51	1,643.40	-580.34	5,007.57	4,930.41	77.16	64.896		
8,700.00	7,004.09	7,138.00	7,051.53	104.61	28.73	-154.51	1,643.40	-580.34	5,067.15	4,989.87	77.27	65.576		
8,800.00	7,080.06	7,181.34	7,093.20	106.02	28.77	-154.83	1,631.75	-578.04	5,126.10	5,048.70	77.40	66.226		
8,900.00	7,156.04	7,227.00	7,136.66	107.44	28.80	-155.18	1,617.84	-579.21	5,189.08	5,111.57	77.51	66.944		
9,000.00	7,232.02	7,227.00	7,136.66	108.85	28.80	-155.18	1,617.84	-579.21	5,251.18	5,173.59	77.59	67.678		
9,104.68	7,311.55	7,227.00	7,136.66	110.33	28.80	-155.18	1,617.84	-579.21	5,317.43	5,239.77	77.65	68.475		
9,150.00	7,346.29	7,227.00	7,136.66	110.97	28.80	-164.22	1,617.84	-579.21	5,346.64	5,268.97	77.68	68.832		
9,200.00	7,385.15	7,227.00	7,136.66	111.65	28.80	-174.64	1,617.84	-579.21	5,379.34	5,301.65	77.69	69.240		
9,250.00	7,424.29	7,227.00	7,136.66	112.31	28.80	174.71	1,617.84	-579.21	5,412.28	5,334.58	77.69	69.661		
9,300.00	7,463.40	7,227.00	7,136.66	112.93	28.80	164.11	1,617.84	-579.21	5,445.20	5,367.52	77.68	70.093		
9,350.00	7,502.19	7,227.00	7,136.66	113.51	28.80	153.82	1,617.84	-579.21	5,477.87	5,400.20	77.66	70.533		
9,400.00	7,540.36	7,227.00	7,136.66	114.04	28.80	144.08	1,617.84	-579.21	5,510.03	5,432.40	77.63	70.976		
9,450.00	7,577.62	7,227.00	7,136.66	114.53	28.80	135.06	1,617.84	-579.21	5,541.46	5,463.87	77.59	71.417		
9,500.00	7,613.70	7,227.00	7,136.66	114.95	28.80	126.84	1,617.84	-579.21	5,571.93	5,494.38	77.55	71.851		
9,550.00	7,648.30	7,227.00	7,136.66	115.32	28.80	119.47	1,617.84	-579.21	5,601.22	5,523.72	77.50	72.273		
9,600.00	7,681.18	7,227.00	7,136.66	115.63	28.80	112.93	1,617.84	-579.21	5,629.14	5,551.68	77.46	72.674		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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		
9,650.00	7,712.08	7,227.00	7,136.66	115.88	28.80	107.20	1,617.84	-579.21	5,655.48	5,578.06	77.42	73.049		
9,700.00	7,740.76	7,227.00	7,136.66	116.08	28.80	102.22	1,617.84	-579.21	5,680.08	5,602.69	77.39	73.391		
9,750.00	7,767.01	7,227.00	7,136.66	116.23	28.80	97.92	1,617.84	-579.21	5,702.78	5,625.39	77.39	73.694		
9,800.00	7,790.63	7,262.77	7,170.27	116.33	28.81	94.54	1,605.95	-582.12	5,722.73	5,645.30	77.43	73.907		
9,850.00	7,811.44	7,268.08	7,175.23	116.38	28.81	91.52	1,604.12	-582.65	5,740.96	5,663.48	77.47	74.104		
9,900.00	7,829.28	7,273.11	7,179.91	116.38	28.81	89.03	1,602.38	-583.17	5,756.86	5,679.32	77.54	74.243		
9,950.00	7,844.01	7,277.82	7,184.30	116.35	28.82	87.03	1,600.73	-583.68	5,770.34	5,692.70	77.64	74.320		
10,000.00	7,855.52	7,522.24	7,396.37	116.28	28.73	87.35	1,483.63	-605.48	5,781.44	5,704.07	77.36	74.731		
10,050.00	7,863.72	7,940.00	7,608.51	116.18	28.12	87.95	1,135.16	-607.97	5,785.73	5,711.30	74.43	77.729		
10,100.00	7,868.56	7,940.00	7,608.51	116.06	28.12	87.53	1,135.16	-607.97	5,787.25	5,712.62	74.62	77.554		
10,145.94	7,870.00	7,940.00	7,608.51	115.92	28.12	87.50	1,135.16	-607.97	5,786.50	5,711.67	74.83	77.332		
10,200.00	7,870.00	7,972.99	7,616.57	115.76	28.09	87.58	1,103.18	-607.04	5,784.30	5,709.48	74.83	77.303		
10,300.00	7,870.00	8,029.00	7,629.35	115.46	28.03	87.70	1,048.66	-606.62	5,781.77	5,706.88	74.89	77.204		
10,400.00	7,870.00	8,276.48	7,663.75	115.18	28.19	88.04	803.96	-600.79	5,779.57	5,705.68	73.89	78.220		
10,500.00	7,870.00	8,360.36	7,666.19	114.91	28.43	88.06	720.21	-596.94	5,774.53	5,700.49	74.05	77.985		
10,600.00	7,870.00	8,450.77	7,667.83	114.65	28.80	88.08	629.90	-592.92	5,769.70	5,695.39	74.31	77.648		
10,700.00	7,870.00	8,546.55	7,669.40	114.41	29.32	88.09	534.22	-588.78	5,764.98	5,690.29	74.69	77.183		
10,800.00	7,870.00	8,615.36	7,670.06	114.17	29.76	88.10	465.47	-585.94	5,760.52	5,685.28	75.24	76.566		
10,900.00	7,870.00	8,675.45	7,670.87	113.95	30.18	88.11	405.43	-583.87	5,756.70	5,680.85	75.85	75.893		
11,000.00	7,870.00	8,741.00	7,671.90	113.75	30.67	88.12	339.91	-582.15	5,753.64	5,677.09	76.54	75.168		
11,100.00	7,870.00	8,789.89	7,672.68	113.55	31.08	88.12	291.03	-581.23	5,751.29	5,674.01	77.29	74.416		
11,200.00	7,870.00	8,853.47	7,673.53	113.37	31.62	88.13	227.46	-580.44	5,749.66	5,671.56	78.11	73.613		
11,300.00	7,870.00	8,929.43	7,673.31	113.20	32.30	88.13	151.51	-579.84	5,748.54	5,669.51	79.03	72.737		
11,400.00	7,870.00	9,018.98	7,672.18	113.04	33.16	88.12	61.97	-579.36	5,747.71	5,667.60	80.10	71.752		
11,500.00	7,870.00	9,109.94	7,670.74	112.89	34.09	88.10	-28.98	-579.07	5,747.11	5,665.81	81.29	70.697		
11,600.00	7,870.00	9,252.19	7,668.05	112.76	35.63	88.08	-171.20	-577.85	5,745.90	5,662.95	82.95	69.269		
11,700.00	7,870.00	9,398.15	7,668.63	112.64	37.32	88.08	-317.14	-575.85	5,744.18	5,659.29	84.89	67.667		
11,800.00	7,870.00	9,515.07	7,668.69	112.53	38.75	88.08	-434.04	-573.63	5,741.95	5,655.21	86.74	66.194		
11,900.00	7,870.00	9,632.00	7,668.80	112.44	40.23	88.08	-550.94	-570.76	5,739.11	5,650.38	88.73	64.678		
12,000.00	7,870.00	9,677.97	7,668.79	112.36	40.83	88.08	-596.89	-569.75	5,736.74	5,646.74	90.01	63.738		
12,100.00	7,870.00	9,721.00	7,668.62	112.29	41.39	88.08	-639.92	-569.43	5,735.57	5,644.31	91.26	62.848		
12,144.42	7,870.00	9,721.00	7,668.62	112.26	41.39	88.08	-639.92	-569.43	5,735.39	5,643.79	91.60	62.610		
12,200.00	7,870.00	9,749.38	7,668.50	112.24	41.76	88.08	-668.31	-569.54	5,735.48	5,643.11	92.36	62.096		
12,300.00	7,870.00	9,810.00	7,668.45	112.20	42.56	88.08	-728.91	-570.56	5,736.62	5,642.74	93.88	61.107		
12,400.00	7,870.00	9,831.67	7,668.38	112.17	42.86	88.08	-750.57	-571.15	5,738.58	5,643.64	94.93	60.450		
12,500.00	7,870.00	9,899.00	7,666.68	112.16	43.76	88.06	-817.84	-573.33	5,741.51	5,644.94	96.57	59.456		
12,600.00	7,870.00	10,208.49	7,650.67	112.17	48.10	87.90	-1,126.85	-578.11	5,743.15	5,641.46	101.69	56.478		
12,700.00	7,870.00	10,394.54	7,642.31	112.19	50.83	87.82	-1,312.70	-575.92	5,741.76	5,636.35	105.41	54.473		
12,800.00	7,870.00	10,529.57	7,635.47	112.23	52.86	87.75	-1,447.52	-572.98	5,739.45	5,631.01	108.44	52.927		
12,900.00	7,870.00	10,568.94	7,633.46	112.28	53.46	87.73	-1,486.83	-572.24	5,737.37	5,627.48	109.89	52.208		
13,000.00	7,870.00	10,612.00	7,631.39	112.36	54.11	87.71	-1,529.84	-571.82	5,736.27	5,624.85	111.42	51.483		
13,086.78	7,870.00	10,664.50	7,628.93	112.43	54.91	87.68	-1,582.28	-571.73	5,736.00	5,622.98	113.02	50.751		
13,100.00	7,870.00	10,672.32	7,628.56	112.45	55.03	87.68	-1,590.09	-571.75	5,736.00	5,622.74	113.26	50.644		
13,200.00	7,870.00	10,737.73	7,625.39	112.56	56.03	87.65	-1,655.43	-572.12	5,736.43	5,621.22	115.21	49.791		
13,300.00	7,870.00	10,815.95	7,621.47	112.68	57.23	87.61	-1,733.55	-572.96	5,737.36	5,619.95	117.41	48.865		
13,400.00	7,870.00	10,928.52	7,618.43	112.83	58.96	87.58	-1,846.06	-574.38	5,738.41	5,618.11	120.30	47.700		
13,500.00	7,870.00	11,026.86	7,615.76	113.00	60.49	87.55	-1,944.36	-575.36	5,739.19	5,616.22	122.97	46.673		
13,600.00	7,870.00	11,168.26	7,610.33	113.19	62.72	87.50	-2,085.65	-576.51	5,739.88	5,613.36	126.52	45.367		
13,700.00	7,870.00	11,284.59	7,604.37	113.40	64.56	87.44	-2,201.82	-576.59	5,739.83	5,610.20	129.63	44.279		
13,800.00	7,870.00	11,463.35	7,596.33	113.63	67.43	87.36	-2,380.39	-575.59	5,739.21	5,605.12	134.10	42.800		
13,900.00	7,870.00	11,622.99	7,590.64	113.89	70.02	87.30	-2,539.90	-572.65	5,737.20	5,598.94	138.26	41.495		
14,000.00	7,870.00	11,741.01	7,585.13	114.18	71.95	87.24	-2,657.74	-569.51	5,734.41	5,592.83	141.58	40.502		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 586-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,870.00	11,812.00	7,583.09	114.48	73.11	87.22	-2,728.69	-567.75	5,731.76	5,587.85	143.91	39.828		
14,200.00	7,870.00	11,898.07	7,582.86	114.82	74.52	87.22	-2,814.73	-566.32	5,729.75	5,583.15	146.60	39.084		
14,300.00	7,870.00	12,036.42	7,582.39	115.18	76.81	87.21	-2,953.05	-563.28	5,727.20	5,576.71	150.49	38.056		
14,400.00	7,870.00	12,119.55	7,582.33	115.57	78.18	87.21	-3,036.16	-561.39	5,724.60	5,571.44	153.16	37.377		
14,500.00	7,870.00	12,158.34	7,583.06	115.99	78.82	87.22	-3,074.94	-560.77	5,722.64	5,567.83	154.81	36.966		
14,600.00	7,870.00	12,216.00	7,584.83	116.44	79.78	87.23	-3,132.57	-560.81	5,721.96	5,565.06	156.90	36.469		
14,637.18	7,870.00	12,216.00	7,584.83	116.62	79.78	87.23	-3,132.57	-560.81	5,721.84	5,564.67	157.17	36.405		
14,700.00	7,870.00	12,248.54	7,586.07	116.92	80.32	87.25	-3,165.08	-561.15	5,722.10	5,563.70	158.39	36.126		
14,800.00	7,870.00	12,375.89	7,590.76	117.44	82.43	87.29	-3,292.34	-562.31	5,722.52	5,560.37	162.16	35.290		
14,900.00	7,870.00	12,481.02	7,593.91	117.98	84.17	87.32	-3,397.42	-562.76	5,722.48	5,557.08	165.40	34.597		
14,909.32	7,870.00	12,490.14	7,594.14	118.03	84.33	87.33	-3,406.54	-562.80	5,722.48	5,556.79	165.69	34.537		
15,000.00	7,870.00	12,543.25	7,595.29	118.56	85.21	87.34	-3,459.63	-563.22	5,722.77	5,555.15	167.62	34.141		
15,100.00	7,870.00	12,656.72	7,596.76	119.17	87.10	87.35	-3,573.09	-564.46	5,723.49	5,552.41	171.09	33.454		
15,200.00	7,870.00	12,747.55	7,597.14	119.81	88.62	87.36	-3,663.91	-565.19	5,723.95	5,549.94	174.01	32.895		
15,300.00	7,870.00	12,829.91	7,596.79	120.48	89.99	87.35	-3,746.27	-566.03	5,724.65	5,547.93	176.73	32.392		
15,400.00	7,870.00	12,911.73	7,595.80	121.19	91.36	87.35	-3,828.07	-567.10	5,725.67	5,546.24	179.44	31.909		
15,500.00	7,870.00	13,007.00	7,594.11	121.93	92.96	87.33	-3,923.32	-568.53	5,726.92	5,544.43	182.49	31.383		
15,600.00	7,870.00	13,128.26	7,591.64	122.71	95.00	87.30	-4,044.55	-570.06	5,727.93	5,541.73	186.20	30.762		
15,700.00	7,870.00	13,241.27	7,589.11	123.52	96.90	87.28	-4,157.51	-571.42	5,728.93	5,539.21	189.72	30.197		
15,800.00	7,870.00	13,391.18	7,590.10	124.36	99.43	87.29	-4,307.42	-572.01	5,728.86	5,534.64	194.22	29.497		
15,828.74	7,870.00	13,408.02	7,590.23	124.61	99.72	87.29	-4,324.26	-572.06	5,728.83	5,533.98	194.85	29.401		
15,900.00	7,870.00	13,449.75	7,590.51	125.23	100.43	87.29	-4,365.99	-572.32	5,729.01	5,532.61	196.40	29.170		
16,000.00	7,870.00	13,464.00	7,590.58	126.14	100.67	87.29	-4,380.24	-572.46	5,730.18	5,532.76	197.42	29.025		
16,100.00	7,870.00	13,522.79	7,590.73	127.07	101.66	87.30	-4,439.01	-573.67	5,732.16	5,532.59	199.58	28.721		
16,200.00	7,870.00	13,564.52	7,590.66	128.04	102.36	87.30	-4,480.72	-575.22	5,735.47	5,534.19	201.28	28.495		
16,300.00	7,870.00	13,824.31	7,589.35	129.04	106.75	87.29	-4,740.38	-582.65	5,738.32	5,529.60	208.72	27.493		
16,400.00	7,870.00	14,038.16	7,590.52	130.06	110.39	87.30	-4,954.21	-583.25	5,738.18	5,523.19	214.99	26.691		
16,500.00	7,870.00	14,087.00	7,591.32	131.11	111.23	87.31	-5,003.05	-583.05	5,737.49	5,520.54	216.95	26.446		
16,550.91	7,870.00	14,113.35	7,591.78	131.66	111.68	87.31	-5,029.40	-583.12	5,737.47	5,519.49	217.98	26.321		
16,600.00	7,870.00	14,130.03	7,592.12	132.19	111.96	87.31	-5,046.07	-583.29	5,737.75	5,519.01	218.74	26.230		
16,700.00	7,870.00	14,176.00	7,593.23	133.29	112.75	87.33	-5,092.01	-584.25	5,739.23	5,518.62	220.60	26.016		
16,800.00	7,870.00	14,222.28	7,594.48	134.42	113.53	87.34	-5,138.26	-585.66	5,741.64	5,519.19	222.45	25.810		
16,900.00	7,870.00	14,310.22	7,596.86	135.57	115.03	87.36	-5,226.11	-588.65	5,744.57	5,519.13	225.43	25.482		
17,000.00	7,870.00	17,000.00	7,601.36	136.75	161.00	87.41	-5,398.50	-594.02	5,747.47	5,473.69	273.78	20.993		
17,100.00	7,870.00	14,658.24	7,603.89	137.94	120.97	87.44	-5,573.95	-595.63	5,747.60	5,511.49	236.11	24.343		
17,200.00	7,870.00	14,868.76	7,606.01	139.16	124.60	87.46	-5,784.45	-596.33	5,748.15	5,505.73	242.42	23.712		
17,300.00	7,870.00	15,007.24	7,606.99	140.39	126.99	87.47	-5,922.91	-594.16	5,746.19	5,499.39	246.80	23.283		
17,400.00	7,870.00	15,160.16	7,607.35	141.65	129.64	87.47	-6,075.79	-590.63	5,743.56	5,491.99	251.57	22.831		
17,500.00	7,870.00	15,194.20	7,607.44	142.92	130.23	87.47	-6,109.81	-589.90	5,741.01	5,487.82	253.19	22.675		
17,600.00	7,870.00	15,246.00	7,607.91	144.21	131.13	87.47	-6,161.61	-589.46	5,739.63	5,484.36	255.27	22.485		
17,700.00	7,870.00	15,291.07	7,608.50	145.52	131.90	87.48	-6,206.68	-589.50	5,739.12	5,481.97	257.15	22.319		
17,800.00	7,870.00	15,396.69	7,610.01	146.84	133.73	87.49	-6,312.29	-589.80	5,739.01	5,478.34	260.68	22.016		
17,900.00	7,870.00	15,546.92	7,611.86	148.18	136.33	87.51	-6,462.50	-589.17	5,738.17	5,472.73	265.43	21.618		
18,000.00	7,870.00	15,641.70	7,612.42	149.54	137.97	87.52	-6,557.28	-588.43	5,737.02	5,468.35	268.68	21.353		
18,100.00	7,870.00	15,754.14	7,612.50	150.90	139.92	87.52	-6,669.71	-587.59	5,735.95	5,463.55	272.40	21.057		
18,200.00	7,870.00	15,913.61	7,611.77	152.28	142.69	87.51	-6,829.16	-585.33	5,734.27	5,456.87	277.40	20.671		
18,300.00	7,870.00	16,047.00	7,610.55	153.67	145.02	87.49	-6,962.51	-581.84	5,731.27	5,449.57	281.70	20.345		
18,400.00	7,870.00	16,093.29	7,610.04	155.07	145.82	87.49	-7,008.78	-580.73	5,728.71	5,445.06	283.65	20.196		
18,500.00	7,870.00	16,137.00	7,609.72	156.49	146.58	87.49	-7,052.49	-580.29	5,727.30	5,441.79	285.51	20.060		
18,600.00	7,870.00	16,198.56	7,609.33	157.91	147.65	87.48	-7,114.05	-580.18	5,726.75	5,438.90	287.84	19.895		
18,700.00	7,870.00	16,289.03	7,608.53	159.35	149.22	87.47	-7,204.52	-580.27	5,726.55	5,435.57	290.97	19.681		
18,752.06	7,870.00	16,332.09	7,608.03	160.10	149.97	87.47	-7,247.56	-580.34	5,726.49	5,434.00	292.49	19.578		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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	
18,800.00	7,870.00	16,364.03	7,608.00	160.79	150.52	87.47	-7,279.51	-580.49	5,726.56	5,432.88	293.67	19.500	
18,900.00	7,870.00	16,435.81	7,609.17	162.25	151.77	87.48	-7,351.28	-581.19	5,727.11	5,430.82	296.29	19.330	
19,000.00	7,870.00	16,518.74	7,611.60	163.71	153.20	87.50	-7,434.16	-582.36	5,728.05	5,428.83	299.22	19.143	
19,100.00	7,870.00	16,616.70	7,615.01	165.18	154.90	87.54	-7,532.04	-583.94	5,729.18	5,426.59	302.59	18.934	
19,200.00	7,870.00	16,718.20	7,618.88	166.66	156.66	87.58	-7,633.46	-585.52	5,730.23	5,424.17	306.06	18.723	
19,300.00	7,870.00	16,814.87	7,622.96	168.15	158.34	87.62	-7,730.04	-587.11	5,731.36	5,421.96	309.40	18.524	
19,400.00	7,870.00	16,936.39	7,627.58	169.65	160.45	87.67	-7,851.45	-588.93	5,732.38	5,418.92	313.46	18.288	
19,500.00	7,870.00	16,999.31	7,628.86	171.15	161.54	87.68	-7,914.35	-589.87	5,733.46	5,417.65	315.81	18.155	
19,600.00	7,870.00	17,069.30	7,629.81	172.66	162.75	87.69	-7,984.31	-591.35	5,735.17	5,416.81	318.36	18.015	
19,700.00	7,870.00	17,148.56	7,630.79	174.18	164.12	87.70	-8,063.54	-593.34	5,737.30	5,416.12	321.18	17.863	
19,800.00	7,870.00	17,227.49	7,631.50	175.70	165.49	87.71	-8,142.44	-595.58	5,739.76	5,415.79	323.98	17.717	
19,889.26	7,870.00	17,295.00	7,631.85	177.06	166.66	87.71	-8,209.91	-597.78	5,742.34	5,415.96	326.38	17.594 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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	-54.44	786.89	-1,100.94	1,353.27					
100.00	100.00	90.47	90.47	0.13	0.15	-54.45	786.88	-1,100.96	1,353.26	1,352.97	0.28	4,827.529	CC	
200.00	200.00	189.89	189.89	0.49	0.31	-54.45	786.86	-1,101.05	1,353.32	1,352.52	0.80	1,693.530		
300.00	300.00	286.36	286.36	0.85	0.57	-54.45	786.88	-1,101.24	1,353.49	1,352.06	1.42	950.287	ES	
400.00	399.98	380.89	380.89	1.21	0.91	-122.63	787.23	-1,101.62	1,354.97	1,352.86	2.11	640.865		
500.00	499.84	475.29	475.28	1.56	1.24	-122.73	787.92	-1,102.22	1,358.74	1,355.94	2.81	484.241		
600.00	599.45	569.43	569.41	1.93	1.58	-122.90	788.96	-1,103.04	1,364.83	1,361.32	3.51	389.365		
700.00	698.70	669.42	669.39	2.32	1.93	-123.18	790.16	-1,104.06	1,373.03	1,368.80	4.24	324.060		
800.00	797.47	764.48	764.44	2.72	2.27	-123.51	791.40	-1,105.07	1,383.32	1,378.36	4.97	278.461		
900.00	895.62	880.38	880.26	3.16	2.68	-123.92	795.20	-1,104.24	1,395.31	1,389.53	5.78	241.231		
1,000.00	993.06	989.77	989.29	3.63	3.06	-124.19	802.40	-1,099.26	1,407.94	1,401.33	6.60	213.189		
1,100.00	1,089.64	1,084.35	1,083.46	4.14	3.40	-124.42	809.63	-1,094.25	1,422.58	1,415.17	7.41	192.052		
1,200.00	1,185.27	1,204.92	1,203.42	4.70	3.84	-124.85	819.23	-1,086.87	1,438.81	1,430.47	8.34	172.486		
1,300.00	1,279.82	1,299.62	1,297.67	5.31	4.20	-125.21	826.10	-1,080.71	1,456.46	1,447.24	9.22	158.017		
1,400.00	1,373.17	1,404.34	1,401.57	5.97	4.59	-125.61	835.67	-1,071.87	1,475.61	1,465.44	10.17	145.035		
1,500.00	1,465.21	1,503.74	1,500.02	6.69	4.99	-125.99	846.12	-1,063.01	1,497.29	1,486.13	11.16	134.194		
1,600.00	1,555.84	1,598.69	1,593.56	7.47	5.37	-126.26	858.36	-1,052.29	1,520.32	1,508.15	12.17	124.879		
1,700.00	1,644.94	1,669.33	1,663.08	8.31	5.67	-126.36	868.33	-1,044.71	1,546.65	1,533.52	13.13	117.831		
1,800.00	1,732.39	1,739.53	1,732.19	9.23	5.97	-126.45	878.86	-1,038.31	1,576.86	1,562.75	14.11	111.782		
1,900.00	1,818.11	1,842.30	1,833.17	10.21	6.41	-126.83	895.26	-1,028.62	1,609.55	1,594.26	15.28	105.305		
2,000.00	1,901.97	1,926.09	1,915.46	11.26	6.78	-127.04	908.68	-1,020.24	1,644.14	1,627.73	16.40	100.224		
2,100.00	1,983.88	1,991.00	1,979.28	12.38	7.06	-127.08	919.22	-1,014.85	1,682.41	1,664.96	17.45	96.416		
2,200.00	2,063.74	2,103.63	2,089.92	13.57	7.56	-127.65	938.09	-1,005.40	1,723.41	1,704.63	18.78	91.754		
2,300.00	2,141.45	2,215.26	2,199.40	14.84	8.06	-128.22	956.04	-993.06	1,764.18	1,744.04	20.14	87.576		
2,327.78	2,162.65	2,233.65	2,217.43	15.21	8.15	-128.23	959.03	-991.04	1,776.02	1,755.56	20.46	86.812		
2,400.00	2,217.51	2,280.39	2,263.26	16.17	8.36	-128.79	966.76	-986.11	1,807.50	1,786.24	21.26	85.016		
2,500.00	2,293.49	2,348.00	2,329.59	17.51	8.67	-129.56	978.17	-979.65	1,852.36	1,829.98	22.38	82.786		
2,600.00	2,369.47	2,403.17	2,383.73	18.86	8.92	-130.18	987.71	-975.02	1,898.69	1,875.29	23.40	81.154		
2,700.00	2,445.45	2,465.23	2,444.64	20.22	9.20	-130.85	998.69	-970.53	1,946.49	1,922.05	24.44	79.646		
2,800.00	2,521.42	2,527.83	2,506.13	21.59	9.48	-131.51	1,009.78	-966.62	1,995.51	1,970.05	25.47	78.363		
2,900.00	2,597.40	2,588.30	2,565.58	22.97	9.75	-132.14	1,020.40	-963.57	2,045.79	2,019.33	26.46	77.329		
3,000.00	2,673.38	2,713.94	2,688.97	24.34	10.32	-133.36	1,043.00	-956.60	2,096.21	2,068.33	27.89	75.164		
3,100.00	2,749.36	2,834.43	2,807.00	25.73	10.88	-134.42	1,065.19	-946.86	2,144.88	2,115.59	29.29	73.221		
3,200.00	2,825.33	2,984.21	2,954.13	27.11	11.57	-135.73	1,088.90	-932.05	2,191.66	2,160.81	30.84	71.054		
3,300.00	2,901.31	3,131.00	3,098.60	28.50	12.23	-137.00	1,109.10	-915.80	2,238.05	2,205.73	32.32	69.250		
3,400.00	2,977.29	3,193.95	3,160.52	29.90	12.51	-137.53	1,117.03	-907.74	2,282.56	2,249.28	33.28	68.593		
3,500.00	3,053.27	3,278.99	3,244.38	31.29	12.89	-138.25	1,127.16	-897.87	2,328.18	2,293.84	34.34	67.799		
3,600.00	3,129.24	3,387.76	3,351.45	32.69	13.37	-139.11	1,140.58	-884.24	2,373.42	2,337.88	35.54	66.783		
3,700.00	3,205.22	3,447.58	3,410.23	34.08	13.65	-139.55	1,148.56	-876.55	2,418.89	2,382.45	36.44	66.372		
3,800.00	3,281.20	3,512.10	3,473.82	35.48	13.94	-140.03	1,156.67	-869.22	2,465.64	2,428.29	37.36	66.002		
3,900.00	3,357.18	3,594.23	3,554.57	36.88	14.31	-140.60	1,168.24	-859.70	2,512.75	2,474.37	38.38	65.470		
4,000.00	3,433.15	3,649.02	3,608.55	38.29	14.56	-140.98	1,175.62	-853.87	2,560.77	2,521.56	39.21	65.314		
4,100.00	3,509.13	3,750.17	3,708.31	39.69	15.01	-141.66	1,188.81	-843.70	2,609.45	2,569.13	40.32	64.715		
4,200.00	3,585.11	3,843.00	3,799.46	41.09	15.44	-142.22	1,202.66	-832.82	2,657.14	2,615.73	41.41	64.168		
4,300.00	3,661.08	3,904.98	3,860.33	42.50	15.72	-142.58	1,211.87	-825.73	2,705.40	2,663.13	42.27	64.008		
4,400.00	3,737.06	3,963.00	3,917.58	43.90	15.99	-142.94	1,219.69	-820.41	2,755.26	2,712.19	43.07	63.965		
4,500.00	3,813.04	4,063.77	4,016.99	45.31	16.43	-143.53	1,233.40	-811.32	2,805.67	2,761.50	44.17	63.526		
4,600.00	3,889.02	4,136.70	4,088.77	46.71	16.77	-143.93	1,244.16	-804.27	2,855.72	2,810.65	45.08	63.353		
4,700.00	3,964.99	4,223.94	4,174.60	48.12	17.17	-144.38	1,257.35	-795.81	2,905.96	2,859.87	46.09	63.051		
4,800.00	4,040.97	4,314.36	4,263.45	49.53	17.59	-144.82	1,271.50	-786.84	2,956.18	2,909.05	47.13	62.723		
4,900.00	4,116.95	4,364.57	4,312.81	50.94	17.81	-145.06	1,279.38	-782.06	3,006.88	2,959.02	47.86	62.829		
5,000.00	4,192.93	4,452.43	4,399.51	52.35	18.21	-145.50	1,291.65	-774.89	3,058.67	3,009.82	48.84	62.621		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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	4,268.90	4,541.25	4,486.91	53.76	18.61	-145.91	1,304.99	-766.35	3,109.41	3,059.56	49.84	62.382		
5,200.00	4,344.88	4,592.16	4,537.09	55.16	18.84	-146.15	1,312.34	-762.06	3,161.20	3,110.65	50.55	62.540		
5,300.00	4,420.86	4,767.92	4,710.36	56.57	19.63	-146.94	1,336.75	-745.46	3,212.17	3,160.00	52.17	61.572		
5,400.00	4,496.84	4,809.86	4,751.60	57.98	19.82	-147.12	1,342.97	-741.18	3,262.72	3,209.91	52.81	61.786		
5,500.00	4,572.81	5,500.00	4,854.10	59.39	22.99	-147.55	1,357.87	-731.16	3,313.87	3,257.39	56.48	58.672		
5,600.00	4,648.79	5,032.00	4,969.93	60.81	20.85	-147.99	1,376.37	-717.72	3,363.48	3,308.35	55.13	61.006		
5,700.00	4,724.77	5,079.52	5,016.61	62.22	21.07	-148.16	1,383.64	-712.63	3,413.92	3,358.11	55.81	61.174		
5,800.00	4,800.74	5,153.52	5,089.53	63.63	21.41	-148.45	1,394.12	-705.62	3,465.36	3,408.69	56.67	61.154		
5,900.00	4,876.72	5,251.35	5,185.69	65.04	21.86	-148.80	1,408.88	-695.31	3,516.02	3,458.30	57.72	60.919		
6,000.00	4,952.70	5,433.56	5,364.83	66.45	22.71	-149.44	1,434.84	-674.61	3,566.22	3,506.83	59.39	60.052		
6,100.00	5,028.68	5,477.00	5,407.46	67.86	22.91	-149.58	1,441.13	-669.15	3,615.42	3,555.40	60.02	60.236		
6,200.00	5,104.65	5,524.84	5,454.51	69.27	23.13	-149.75	1,447.79	-663.67	3,665.62	3,604.95	60.67	60.421		
6,300.00	5,180.63	5,566.00	5,495.11	70.69	23.31	-149.89	1,453.15	-659.57	3,716.98	3,655.73	61.25	60.686		
6,400.00	5,256.61	5,655.00	5,582.84	72.10	23.72	-150.19	1,465.28	-650.72	3,768.47	3,706.28	62.20	60.591		
6,500.00	5,332.59	5,711.92	5,638.94	73.51	23.97	-150.38	1,473.12	-645.16	3,820.34	3,757.45	62.89	60.748		
6,600.00	5,408.56	5,767.78	5,694.19	74.92	24.21	-150.58	1,479.94	-640.55	3,873.29	3,809.74	63.55	60.946		
6,700.00	5,484.54	5,904.21	5,828.82	76.34	24.82	-151.01	1,498.31	-628.47	3,925.92	3,861.06	64.86	60.525		
6,800.00	5,560.52	5,954.75	5,878.34	77.75	25.06	-151.13	1,507.20	-623.67	3,978.24	3,912.71	65.53	60.705		
6,900.00	5,636.50	6,011.00	5,933.65	79.16	25.32	-151.27	1,516.36	-619.22	4,031.68	3,965.44	66.24	60.866		
7,000.00	5,712.47	6,127.59	6,048.29	80.57	25.85	-151.57	1,535.04	-609.09	4,084.59	4,017.14	67.45	60.558		
7,100.00	5,788.45	6,160.80	6,081.00	81.99	26.00	-151.66	1,540.08	-606.34	4,137.93	4,069.99	67.94	60.904		
7,200.00	5,864.43	6,240.98	6,160.16	83.40	26.36	-151.88	1,551.44	-600.64	4,192.27	4,123.46	68.81	60.923		
7,300.00	5,940.40	6,340.57	6,258.39	84.81	26.80	-152.14	1,565.72	-592.59	4,245.80	4,175.96	69.84	60.792		
7,400.00	6,016.38	7,400.00	6,358.64	86.23	31.42	-152.43	1,578.78	-584.22	4,299.26	4,224.40	74.86	57.427		
7,500.00	6,092.36	6,635.00	6,548.61	87.64	28.13	-152.90	1,606.51	-564.73	4,350.76	4,278.11	72.65	59.885		
7,600.00	6,168.34	6,685.57	6,598.31	89.05	28.36	-153.01	1,614.03	-559.14	4,402.15	4,328.85	73.30	60.060		
7,700.00	6,244.31	6,724.00	6,636.04	90.47	28.54	-153.09	1,620.30	-555.51	4,454.69	4,380.85	73.84	60.331		
7,800.00	6,320.29	6,750.27	6,661.87	91.88	28.66	-153.14	1,624.65	-553.34	4,508.20	4,433.94	74.26	60.706		
7,900.00	6,396.27	6,782.74	6,693.85	93.30	28.81	-153.21	1,629.70	-550.97	4,562.70	4,487.97	74.73	61.058		
8,000.00	6,472.25	7,438.00	7,334.75	94.71	31.49	-155.25	1,674.58	-462.48	4,607.57	4,528.51	79.06	58.279		
8,100.00	6,548.22	7,479.55	7,373.83	96.12	31.54	-155.55	1,662.96	-454.55	4,652.08	4,572.77	79.32	58.652		
8,200.00	6,624.20	7,527.00	7,417.87	97.54	31.60	-155.94	1,646.75	-447.63	4,699.18	4,619.66	79.51	59.099		
8,300.00	6,700.18	7,527.00	7,417.87	98.95	31.60	-155.94	1,646.75	-447.63	4,746.64	4,666.85	79.79	59.489		
8,400.00	6,776.16	7,527.00	7,417.87	100.37	31.60	-155.94	1,646.75	-447.63	4,795.72	4,715.68	80.04	59.917		
8,500.00	6,852.13	7,527.00	7,417.87	101.78	31.60	-155.94	1,646.75	-447.63	4,846.36	4,766.10	80.26	60.382		
8,600.00	6,928.11	7,527.00	7,417.87	103.20	31.60	-155.94	1,646.75	-447.63	4,898.52	4,818.06	80.46	60.881		
8,700.00	7,004.09	7,527.00	7,417.87	104.61	31.60	-155.94	1,646.75	-447.63	4,952.16	4,871.52	80.63	61.415		
8,800.00	7,080.06	7,527.00	7,417.87	106.02	31.60	-155.94	1,646.75	-447.63	5,007.21	4,926.43	80.79	61.981		
8,900.00	7,156.04	7,564.91	7,452.39	107.44	31.60	-156.26	1,631.52	-443.94	5,062.56	4,981.72	80.84	62.628		
9,000.00	7,232.02	7,572.87	7,459.54	108.85	31.60	-156.34	1,628.07	-443.40	5,119.80	5,038.86	80.93	63.258		
9,104.68	7,311.55	7,616.00	7,497.58	110.33	31.61	-156.74	1,607.83	-441.92	5,181.97	5,101.04	80.92	64.037		
9,150.00	7,346.29	7,616.00	7,497.58	110.97	31.61	-165.30	1,607.83	-441.92	5,208.82	5,127.86	80.96	64.335		
9,200.00	7,385.15	7,616.00	7,497.58	111.65	31.61	-175.16	1,607.83	-441.92	5,238.91	5,157.91	81.00	64.677		
9,250.00	7,424.29	7,616.00	7,497.58	112.31	31.61	174.75	1,607.83	-441.92	5,269.24	5,188.21	81.03	65.029		
9,300.00	7,463.40	7,616.00	7,497.58	112.93	31.61	164.69	1,607.83	-441.92	5,299.58	5,218.54	81.04	65.391		
9,350.00	7,502.19	7,616.00	7,497.58	113.51	31.61	154.93	1,607.83	-441.92	5,329.71	5,248.66	81.05	65.758		
9,400.00	7,540.36	7,616.00	7,497.58	114.04	31.61	145.66	1,607.83	-441.92	5,359.40	5,278.35	81.04	66.129		
9,450.00	7,577.62	7,616.00	7,497.58	114.53	31.61	137.05	1,607.83	-441.92	5,388.43	5,307.39	81.03	66.497		
9,500.00	7,613.70	7,616.00	7,497.58	114.95	31.61	129.18	1,607.83	-441.92	5,416.59	5,335.58	81.02	66.859		
9,550.00	7,648.30	7,616.00	7,497.58	115.32	31.61	122.10	1,607.83	-441.92	5,443.69	5,362.70	81.00	67.209		
9,600.00	7,681.18	7,616.00	7,497.58	115.63	31.61	115.80	1,607.83	-441.92	5,469.54	5,388.56	80.98	67.541		
9,650.00	7,712.08	7,656.08	7,531.93	115.88	31.58	110.39	1,587.18	-441.96	5,493.49	5,412.64	80.85	67.948		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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		
9,700.00	7,740.76	7,669.32	7,543.08	116.08	31.57	105.63	1,580.06	-442.10	5,515.96	5,435.15	80.81	68.260		
9,750.00	7,767.01	7,705.00	7,572.68	116.23	31.55	101.65	1,560.14	-442.78	5,536.72	5,456.02	80.70	68.609		
9,800.00	7,790.63	7,705.00	7,572.68	116.33	31.55	98.12	1,560.14	-442.78	5,555.25	5,474.51	80.74	68.803		
9,850.00	7,811.44	7,900.97	7,721.29	116.38	31.33	96.08	1,432.94	-443.37	5,571.09	5,491.26	79.83	69.788		
9,900.00	7,829.28	7,943.90	7,749.77	116.38	31.27	93.90	1,400.84	-442.70	5,583.86	5,504.21	79.65	70.103		
9,950.00	7,844.01	7,973.00	7,768.05	116.35	31.23	92.17	1,378.21	-442.22	5,594.16	5,514.57	79.58	70.296		
10,000.00	7,855.52	7,973.00	7,768.05	116.28	31.23	90.78	1,378.21	-442.22	5,602.17	5,522.43	79.74	70.260		
10,050.00	7,863.72	7,973.00	7,768.05	116.18	31.23	89.80	1,378.21	-442.22	5,607.92	5,528.00	79.92	70.165		
10,100.00	7,868.56	8,012.09	7,791.24	116.06	31.16	89.45	1,346.74	-441.91	5,610.88	5,531.00	79.88	70.245		
10,145.94	7,870.00	8,022.45	7,797.11	115.92	31.15	89.35	1,338.20	-441.95	5,611.72	5,531.68	80.04	70.113		
10,172.31	7,870.00	8,028.37	7,800.41	115.84	31.14	89.38	1,333.30	-441.99	5,611.68	5,531.54	80.14	70.021		
10,200.00	7,870.00	10,200.00	7,816.12	115.76	29.87	89.54	1,309.27	-442.53	5,611.99	5,532.57	79.41	70.667		
10,300.00	7,870.00	8,187.53	7,874.98	115.46	30.85	90.14	1,192.99	-443.05	5,611.96	5,532.33	79.63	70.471		
10,316.94	7,870.00	8,193.84	7,877.36	115.41	30.84	90.17	1,187.14	-443.06	5,611.95	5,532.26	79.69	70.425		
10,400.00	7,870.00	10,400.00	7,904.76	115.18	31.78	90.45	1,105.40	-443.49	5,612.25	5,531.35	80.90	69.369		
10,500.00	7,870.00	8,449.15	7,936.28	114.91	30.45	90.77	939.90	-441.85	5,610.76	5,531.94	78.82	71.183		
10,600.00	7,870.00	8,507.00	7,938.63	114.65	30.40	90.79	882.10	-441.77	5,610.19	5,531.17	79.01	71.002		
10,621.98	7,870.00	8,507.00	7,938.63	114.60	30.40	90.79	882.10	-441.77	5,610.15	5,530.99	79.16	70.874		
10,700.00	7,870.00	8,592.85	7,940.39	114.41	30.42	90.81	796.27	-442.09	5,610.21	5,531.10	79.11	70.915		
10,800.00	7,870.00	8,685.00	7,942.79	114.17	30.62	90.84	704.15	-441.95	5,609.79	5,530.49	79.31	70.733		
10,829.45	7,870.00	8,714.53	7,943.55	114.11	30.73	90.84	674.63	-441.93	5,609.68	5,530.28	79.40	70.651		
10,829.45	7,870.00	8,714.53	7,943.55	114.11	30.73	90.84	674.63	-441.93	5,609.68	5,530.28	79.40	70.651		
10,900.00	7,870.00	8,743.31	7,944.29	113.95	30.85	90.85	645.86	-442.12	5,609.94	5,530.19	79.75	70.340		
11,000.00	7,870.00	8,980.68	7,951.62	113.75	32.27	90.93	408.63	-442.44	5,610.24	5,530.16	80.08	70.059		
11,100.00	7,870.00	9,051.26	7,952.18	113.55	32.79	90.93	338.05	-441.70	5,608.85	5,528.06	80.78	69.432		
11,200.00	7,870.00	9,154.28	7,951.86	113.37	33.62	90.93	235.04	-440.63	5,607.46	5,525.82	81.64	68.689		
11,300.00	7,870.00	9,219.00	7,952.67	113.20	34.18	90.94	170.33	-440.33	5,606.63	5,524.14	82.50	67.959		
11,400.00	7,870.00	9,309.00	7,954.67	113.04	35.01	90.96	80.35	-439.49	5,605.48	5,521.93	83.55	67.092		
11,471.75	7,870.00	9,357.05	7,955.69	112.93	35.47	90.97	32.31	-439.12	5,604.91	5,520.62	84.29	66.493		
11,500.00	7,870.00	9,365.13	7,955.84	112.89	35.55	90.97	24.24	-439.16	5,604.96	5,520.44	84.53	66.310		
11,600.00	7,870.00	9,398.00	7,956.41	112.76	35.87	90.98	-8.62	-439.62	5,605.97	5,520.56	85.41	65.636		
11,700.00	7,870.00	11,700.00	7,964.34	112.64	62.54	91.06	-359.17	-437.39	5,604.40	5,493.25	111.15	50.422		
11,800.00	7,870.00	9,790.21	7,965.36	112.53	40.17	91.07	-400.66	-436.41	5,601.90	5,512.01	89.89	62.322		
11,900.00	7,870.00	9,843.00	7,967.16	112.44	40.80	91.09	-453.42	-436.15	5,600.81	5,509.67	91.14	61.456		
11,957.48	7,870.00	9,843.00	7,967.16	112.39	40.80	91.09	-453.42	-436.15	5,600.51	5,508.96	91.56	61.169		
12,000.00	7,870.00	9,869.15	7,968.20	112.36	41.12	91.10	-479.55	-436.30	5,600.62	5,508.48	92.14	60.784		
12,100.00	7,870.00	9,972.86	7,972.09	112.29	42.40	91.14	-583.18	-436.80	5,600.85	5,506.83	94.02	59.571		
12,200.00	7,870.00	10,148.98	7,973.79	112.24	44.66	91.15	-759.29	-436.29	5,600.12	5,503.24	96.89	57.801		
12,300.00	7,870.00	10,225.32	7,972.58	112.20	45.67	91.14	-835.61	-436.05	5,599.38	5,500.77	98.61	56.783		
12,400.00	7,870.00	10,413.04	7,967.33	112.17	48.23	91.09	-1,023.24	-433.16	5,597.06	5,495.09	101.97	54.889		
12,500.00	7,870.00	10,467.00	7,965.72	112.16	48.98	91.07	-1,077.17	-432.44	5,595.28	5,491.78	103.50	54.061		
12,600.00	7,870.00	10,511.48	7,964.71	112.17	49.60	91.06	-1,121.63	-432.25	5,594.38	5,489.48	104.91	53.326		
12,649.64	7,870.00	10,537.70	7,964.36	112.18	49.97	91.06	-1,147.85	-432.27	5,594.26	5,488.58	105.68	52.935		
12,700.00	7,870.00	10,556.00	7,964.22	112.19	50.23	91.06	-1,166.15	-432.36	5,594.36	5,488.03	106.33	52.613		
12,800.00	7,870.00	10,623.68	7,964.50	112.23	51.19	91.06	-1,233.83	-433.04	5,595.09	5,486.94	108.14	51.737		
12,900.00	7,870.00	10,881.17	7,972.74	112.28	54.93	91.14	-1,491.17	-432.71	5,594.51	5,481.22	113.29	49.381		
13,000.00	7,870.00	11,006.71	7,975.05	112.36	56.81	91.17	-1,616.66	-430.60	5,592.52	5,476.22	116.30	48.085		
13,100.00	7,870.00	11,075.52	7,974.17	112.45	57.85	91.16	-1,685.46	-429.50	5,590.58	5,472.28	118.30	47.257		
13,200.00	7,870.00	11,176.69	7,970.89	112.56	59.38	91.13	-1,786.57	-428.48	5,589.18	5,468.26	120.92	46.221		
13,300.00	7,870.00	11,307.95	7,966.75	112.68	61.40	91.08	-1,917.74	-426.41	5,587.18	5,463.00	124.18	44.992		
13,400.00	7,870.00	11,390.01	7,964.63	112.83	62.67	91.06	-1,999.77	-425.05	5,585.15	5,458.62	126.53	44.142		
13,500.00	7,870.00	11,462.05	7,963.09	113.00	63.79	91.05	-2,071.79	-424.16	5,583.54	5,454.85	128.70	43.386		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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	7,870.00	11,526.11	7,961.87	113.19	64.79	91.04	-2,135.83	-423.73	5,582.50	5,451.78	130.72	42.707		
13,700.00	7,870.00	11,587.44	7,960.77	113.40	65.75	91.02	-2,197.15	-423.72	5,582.12	5,449.43	132.69	42.069		
13,702.83	7,870.00	11,589.12	7,960.75	113.41	65.77	91.02	-2,198.83	-423.73	5,582.12	5,449.38	132.75	42.051		
13,800.00	7,870.00	11,647.00	7,959.85	113.63	66.68	91.01	-2,256.70	-424.14	5,582.47	5,447.83	134.64	41.463		
13,900.00	7,870.00	11,700.30	7,959.20	113.89	67.51	91.01	-2,309.99	-424.93	5,583.59	5,447.13	136.46	40.919		
14,000.00	7,870.00	11,736.00	7,958.87	114.18	68.07	91.00	-2,345.68	-425.71	5,585.60	5,447.70	137.90	40.505		
14,100.00	7,870.00	11,803.92	7,958.22	114.48	69.14	91.00	-2,413.57	-427.77	5,588.38	5,448.34	140.04	39.906		
14,200.00	7,870.00	11,874.33	7,957.42	114.82	70.24	90.99	-2,483.92	-430.58	5,591.98	5,449.74	142.24	39.314		
14,300.00	7,870.00	11,952.17	7,956.63	115.18	71.47	90.98	-2,561.68	-433.93	5,595.94	5,451.33	144.61	38.696		
14,400.00	7,870.00	12,038.18	7,956.03	115.57	72.82	90.97	-2,647.59	-438.02	5,600.34	5,453.15	147.19	38.049		
14,500.00	7,870.00	12,207.74	7,956.97	115.99	75.51	90.98	-2,817.00	-445.10	5,604.21	5,452.50	151.71	36.941		
14,600.00	7,870.00	14,600.00	7,958.28	116.44	114.11	90.99	-2,946.62	-449.30	5,607.13	5,415.16	191.97	29.209		
14,700.00	7,870.00	12,424.63	7,959.04	116.92	79.00	91.00	-3,033.78	-451.81	5,609.71	5,451.64	158.07	35.489		
14,800.00	7,870.00	12,482.60	7,959.08	117.44	79.94	91.00	-3,091.70	-453.89	5,612.96	5,452.89	160.08	35.064		
14,900.00	7,870.00	12,540.26	7,959.18	117.98	80.87	91.00	-3,149.31	-456.40	5,616.99	5,454.91	162.08	34.656		
15,000.00	7,870.00	12,664.42	7,960.17	118.56	82.88	91.01	-3,273.34	-461.91	5,621.09	5,455.39	165.70	33.924		
15,100.00	7,870.00	12,770.02	7,960.86	119.17	84.59	91.02	-3,378.84	-466.40	5,625.02	5,456.13	168.89	33.305		
15,200.00	7,870.00	13,752.46	7,945.65	119.81	101.13	90.87	-4,358.59	-424.77	5,614.90	5,421.23	193.66	28.993		
15,300.00	7,870.00	13,786.00	7,946.14	120.48	101.71	90.88	-4,391.91	-420.99	5,603.56	5,408.24	195.32	28.689		
15,400.00	7,870.00	13,845.40	7,947.02	121.19	102.73	90.89	-4,450.99	-414.86	5,593.07	5,395.46	197.60	28.305		
15,500.00	7,870.00	13,875.00	7,947.50	121.93	103.24	90.89	-4,480.46	-412.12	5,583.69	5,384.55	199.14	28.039		
15,600.00	7,870.00	13,922.58	7,948.23	122.71	104.06	90.90	-4,527.87	-408.23	5,575.35	5,374.24	201.11	27.723		
15,700.00	7,870.00	13,964.00	7,948.77	123.52	104.77	90.91	-4,569.19	-405.42	5,568.18	5,365.26	202.91	27.441		
15,800.00	7,870.00	13,996.88	7,949.18	124.36	105.33	90.91	-4,602.02	-403.56	5,562.11	5,357.63	204.48	27.201		
15,900.00	7,870.00	14,053.00	7,950.00	125.23	106.29	90.92	-4,658.08	-401.11	5,557.25	5,350.62	206.63	26.894		
16,000.00	7,870.00	14,053.00	7,950.00	126.14	106.29	90.92	-4,658.08	-401.11	5,553.43	5,346.12	207.31	26.788		
16,100.00	7,870.00	14,103.59	7,950.71	127.07	107.16	90.93	-4,708.65	-399.78	5,550.73	5,341.44	209.29	26.522		
16,200.00	7,870.00	14,142.00	7,951.15	128.04	107.81	90.93	-4,747.05	-399.39	5,549.30	5,338.38	210.92	26.310		
16,250.95	7,870.00	14,142.00	7,951.15	128.54	107.81	90.93	-4,747.05	-399.39	5,549.07	5,337.84	211.23	26.271		
16,300.00	7,870.00	14,142.00	7,951.15	129.04	107.81	90.93	-4,747.05	-399.39	5,549.29	5,337.78	211.51	26.237		
16,400.00	7,870.00	14,198.25	7,951.57	130.06	108.76	90.94	-4,803.30	-399.86	5,550.13	5,336.56	213.58	25.986		
16,500.00	7,870.00	14,231.00	7,951.67	131.11	109.31	90.94	-4,836.03	-400.74	5,552.43	5,337.44	214.99	25.826		
16,600.00	7,870.00	14,302.39	7,951.71	132.19	110.51	90.94	-4,907.38	-403.27	5,555.62	5,338.17	217.46	25.548		
16,700.00	7,870.00	14,643.51	7,953.92	133.29	116.29	90.96	-5,248.39	-408.02	5,556.31	5,328.96	227.35	24.439		
16,800.00	7,870.00	14,707.51	7,955.33	134.42	117.38	90.97	-5,312.37	-407.77	5,555.65	5,325.96	229.68	24.188		
16,835.38	7,870.00	14,726.56	7,955.73	134.82	117.71	90.98	-5,331.42	-407.80	5,555.59	5,325.19	230.41	24.112		
16,900.00	7,870.00	14,766.00	7,956.51	135.57	118.38	90.99	-5,370.85	-408.04	5,555.77	5,323.92	231.85	23.962		
17,000.00	7,870.00	14,815.38	7,957.31	136.75	119.22	90.99	-5,420.22	-408.68	5,556.72	5,322.96	233.76	23.771		
17,100.00	7,870.00	14,855.00	7,957.78	137.94	119.89	91.00	-5,459.83	-409.46	5,558.53	5,323.16	235.37	23.616		
17,200.00	7,870.00	14,919.99	7,958.16	139.16	120.99	91.00	-5,524.79	-411.31	5,561.14	5,323.45	237.69	23.397		
17,300.00	7,870.00	14,988.61	7,958.23	140.39	122.15	91.00	-5,593.36	-413.92	5,564.57	5,324.48	240.09	23.177		
17,400.00	7,870.00	15,200.77	7,962.48	141.65	125.76	91.04	-5,805.36	-420.22	5,567.28	5,320.67	246.61	22.575		
17,500.00	7,870.00	15,326.91	7,967.52	142.92	127.92	91.10	-5,931.39	-422.30	5,568.67	5,317.96	250.70	22.212		
17,600.00	7,870.00	15,428.12	7,970.80	144.21	129.65	91.13	-6,032.53	-423.63	5,569.71	5,315.62	254.09	21.920		
17,700.00	7,870.00	15,534.31	7,974.07	145.52	131.47	91.16	-6,138.66	-425.24	5,570.96	5,313.34	257.62	21.625		
17,800.00	7,870.00	15,678.25	7,978.66	146.84	133.94	91.21	-6,282.52	-426.41	5,571.47	5,309.23	262.24	21.246		
17,900.00	7,870.00	15,768.70	7,981.60	148.18	135.50	91.24	-6,372.92	-427.00	5,571.85	5,306.51	265.34	20.999		
18,000.00	7,870.00	15,862.85	7,984.95	149.54	137.12	91.27	-6,467.00	-427.54	5,572.17	5,303.63	268.55	20.749		
18,100.00	7,870.00	15,924.00	7,986.94	150.90	138.17	91.29	-6,528.12	-428.25	5,573.06	5,302.25	270.81	20.579		
18,200.00	7,870.00	15,994.58	7,989.16	152.28	139.38	91.32	-6,598.65	-429.49	5,574.55	5,301.22	273.33	20.395		
18,300.00	7,870.00	16,066.76	7,991.58	153.67	140.62	91.34	-6,670.77	-431.12	5,576.55	5,300.65	275.90	20.212		
18,400.00	7,870.00	16,134.48	7,993.87	155.07	141.78	91.37	-6,738.43	-432.99	5,579.06	5,300.74	278.32	20.045		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 229-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
18,500.00	7,870.00	16,191.00	7,995.68	156.49	142.75	91.38	-6,794.89	-434.90	5,582.22	5,301.81	280.41	19.907	
18,600.00	7,870.00	16,244.95	7,997.27	157.91	143.67	91.40	-6,848.77	-437.15	5,586.18	5,303.78	282.40	19.781	
18,700.00	7,870.00	16,307.64	7,998.94	159.35	144.74	91.42	-6,911.35	-440.39	5,591.03	5,306.39	284.64	19.643	
18,800.00	7,870.00	16,395.05	8,001.49	160.79	146.23	91.44	-6,998.60	-445.11	5,596.17	5,308.55	287.62	19.457	
18,900.00	7,870.00	16,465.14	8,003.04	162.25	147.42	91.46	-7,068.55	-449.22	5,601.76	5,311.69	290.07	19.312	
19,000.00	7,870.00	16,559.01	8,004.57	163.71	149.01	91.47	-7,162.23	-455.05	5,607.67	5,314.42	293.25	19.122	
19,100.00	7,870.00	16,657.98	8,006.11	165.18	150.70	91.48	-7,261.00	-461.18	5,613.57	5,316.98	296.59	18.927	
19,200.00	7,870.00	19,200.00	8,000.42	166.66	194.61	91.42	-7,668.72	-477.36	5,618.30	5,272.20	346.10	16.233 SF	
19,300.00	7,870.00	17,600.35	7,996.78	168.15	167.03	91.39	-8,202.05	-460.25	5,613.96	5,289.49	324.46	17.302	
19,400.00	7,870.00	17,734.24	8,002.43	169.65	169.39	91.45	-8,335.46	-450.48	5,606.43	5,277.63	328.81	17.051	
19,500.00	7,870.00	17,796.00	8,005.06	171.15	170.48	91.48	-8,396.99	-445.85	5,598.78	5,267.50	331.29	16.900	
19,600.00	7,870.00	17,796.00	8,005.06	172.66	170.48	91.48	-8,396.99	-445.85	5,592.51	5,260.40	332.11	16.839	
19,700.00	7,870.00	17,796.00	8,005.06	174.18	170.48	91.48	-8,396.99	-445.85	5,588.02	5,255.18	332.84	16.789	
19,800.00	7,870.00	17,796.00	8,005.06	175.70	170.48	91.48	-8,396.99	-445.85	5,585.32	5,251.83	333.48	16.748	
19,889.26	7,870.00	17,796.00	8,005.06	177.06	170.48	91.48	-8,396.99	-445.85	5,584.41	5,250.44	333.98	16.721	

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-54.20	786.89	-1,091.14	1,345.31					
100.00	100.00	89.71	89.71	0.13	0.15	-54.20	786.86	-1,091.17	1,345.29	1,345.00	0.28	4,742.603	CC	
200.00	200.00	189.39	189.39	0.49	0.32	-54.21	786.77	-1,091.27	1,345.32	1,344.51	0.81	1,665.115		
300.00	300.00	289.07	289.07	0.85	0.48	-54.22	786.62	-1,091.45	1,345.38	1,344.04	1.33	1,009.870	ES	
400.00	399.98	386.75	386.75	1.21	0.77	-122.42	786.54	-1,091.67	1,346.44	1,344.47	1.97	682.041		
500.00	499.84	483.52	483.52	1.56	1.11	-122.54	786.89	-1,091.84	1,349.61	1,346.94	2.67	505.925		
600.00	599.45	580.07	580.07	1.93	1.44	-122.72	787.68	-1,091.97	1,354.91	1,351.54	3.37	402.151		
700.00	698.70	683.28	683.27	2.32	1.80	-123.03	788.41	-1,092.17	1,362.12	1,358.02	4.11	331.704		
800.00	797.47	788.36	788.27	2.72	2.17	-123.31	791.51	-1,090.21	1,370.90	1,366.04	4.87	281.725		
900.00	895.62	889.51	889.27	3.16	2.53	-123.57	796.04	-1,086.93	1,381.39	1,375.76	5.63	245.207		
1,000.00	993.06	994.70	994.17	3.63	2.90	-123.87	802.22	-1,082.19	1,393.62	1,387.18	6.45	216.158		
1,100.00	1,089.64	1,088.76	1,087.69	4.14	3.25	-124.05	810.23	-1,076.08	1,407.67	1,400.41	7.26	193.937		
1,200.00	1,185.27	1,235.17	1,233.05	4.70	3.81	-124.58	822.26	-1,063.65	1,421.78	1,413.48	8.30	171.205		
1,300.00	1,279.82	1,320.37	1,317.63	5.31	4.13	-124.86	828.66	-1,055.61	1,437.04	1,427.88	9.16	156.872		
1,400.00	1,373.17	1,399.34	1,395.75	5.97	4.45	-125.04	837.25	-1,047.87	1,455.79	1,445.75	10.04	145.056		
1,500.00	1,465.21	1,482.76	1,477.55	6.69	4.80	-125.10	850.30	-1,038.07	1,477.47	1,466.48	10.98	134.501		
1,600.00	1,555.84	1,561.09	1,553.90	7.47	5.15	-125.08	864.98	-1,028.63	1,502.42	1,490.46	11.96	125.597		
1,700.00	1,644.94	1,651.99	1,642.74	8.31	5.56	-125.21	881.30	-1,018.48	1,529.85	1,516.81	13.04	117.317		
1,800.00	1,732.39	1,723.00	1,712.41	9.23	5.87	-125.27	893.38	-1,011.91	1,560.50	1,546.45	14.05	111.102		
1,900.00	1,818.11	1,837.70	1,825.00	10.21	6.38	-125.75	912.67	-1,001.61	1,593.59	1,578.28	15.31	104.087		
2,000.00	1,901.97	1,941.02	1,926.55	11.26	6.85	-126.22	928.36	-990.80	1,626.92	1,610.38	16.55	98.318		
2,100.00	1,983.88	2,017.61	2,001.91	12.38	7.19	-126.44	940.01	-983.61	1,663.52	1,645.85	17.67	94.137		
2,200.00	2,063.74	2,200.00	2,132.38	13.57	8.01	-127.34	959.33	-969.17	1,701.01	1,681.66	19.34	87.940		
2,300.00	2,141.45	2,247.77	2,228.11	14.84	8.23	-127.85	972.78	-956.79	1,739.33	1,718.92	20.41	85.226		
2,327.78	2,162.65	2,266.81	2,246.81	15.21	8.32	-127.90	975.46	-954.44	1,750.56	1,729.83	20.73	84.453		
2,400.00	2,217.51	2,315.54	2,294.68	16.17	8.54	-128.50	982.52	-948.63	1,780.46	1,758.92	21.55	82.625		
2,500.00	2,293.49	2,381.02	2,358.99	17.51	8.84	-129.28	992.39	-941.27	1,823.10	1,800.44	22.66	80.455		
2,600.00	2,369.47	2,445.60	2,422.44	18.86	9.14	-130.03	1,002.46	-934.68	1,867.20	1,843.45	23.75	78.629		
2,700.00	2,445.45	2,516.11	2,491.79	20.22	9.45	-130.83	1,013.38	-928.15	1,912.51	1,887.67	24.85	76.974		
2,800.00	2,521.42	2,585.70	2,560.34	21.59	9.77	-131.61	1,023.85	-922.36	1,958.89	1,932.97	25.92	75.577		
2,900.00	2,597.40	2,655.62	2,629.26	22.97	10.08	-132.36	1,034.39	-917.06	2,006.29	1,979.31	26.97	74.380		
3,000.00	2,673.38	2,744.06	2,716.28	24.34	10.48	-133.26	1,048.69	-910.39	2,054.42	2,026.27	28.14	72.997		
3,100.00	2,749.36	2,877.00	2,846.57	25.73	11.10	-134.45	1,072.02	-898.02	2,101.93	2,072.30	29.63	70.944		
3,200.00	2,825.33	3,031.07	2,997.30	27.11	11.84	-135.75	1,097.17	-878.43	2,146.12	2,114.88	31.23	68.710		
3,300.00	2,901.31	3,093.04	3,057.91	28.50	12.14	-136.25	1,107.15	-870.24	2,190.57	2,158.34	32.23	67.972		
3,400.00	2,977.29	3,400.00	3,156.04	29.90	13.58	-137.08	1,121.58	-857.96	2,235.70	2,201.33	34.37	65.051		
3,500.00	3,053.27	3,321.36	3,281.82	31.29	13.22	-138.09	1,139.65	-839.82	2,279.25	2,244.45	34.80	65.490		
3,600.00	3,129.24	3,376.00	3,335.49	32.69	13.47	-138.52	1,146.79	-832.40	2,323.53	2,287.84	35.69	65.098		
3,700.00	3,205.22	3,436.34	3,394.93	34.08	13.74	-139.01	1,154.14	-825.13	2,369.19	2,332.60	36.59	64.750		
3,800.00	3,281.20	3,502.57	3,460.10	35.48	14.05	-139.50	1,163.13	-817.51	2,415.86	2,378.34	37.51	64.397		
3,900.00	3,357.18	3,572.14	3,528.44	36.88	14.37	-139.98	1,173.62	-809.77	2,463.35	2,424.88	38.47	64.040		
4,000.00	3,433.15	3,664.58	3,619.19	38.29	14.81	-140.59	1,187.97	-799.58	2,511.20	2,471.63	39.57	63.459		
4,100.00	3,509.13	3,743.92	3,697.03	39.69	15.18	-141.09	1,200.53	-790.73	2,559.19	2,518.61	40.58	63.059		
4,200.00	3,585.11	3,868.65	3,819.13	41.09	15.78	-141.82	1,220.82	-775.33	2,606.24	2,564.31	41.93	62.163		
4,300.00	3,661.08	3,913.72	3,863.33	42.50	15.99	-142.08	1,227.86	-770.03	2,654.02	2,611.34	42.68	62.189		
4,400.00	3,737.06	3,964.00	3,912.75	43.90	16.23	-142.38	1,235.58	-764.96	2,703.26	2,659.81	43.44	62.224		
4,500.00	3,813.04	4,068.16	4,015.28	45.31	16.71	-142.98	1,250.87	-754.88	2,753.01	2,708.43	44.58	61.748		
4,600.00	3,889.02	4,141.91	4,087.80	46.71	17.05	-143.39	1,262.08	-747.49	2,802.64	2,757.14	45.50	61.590		
4,700.00	3,964.99	4,228.37	4,172.65	48.12	17.46	-143.83	1,276.16	-738.71	2,852.46	2,805.92	46.53	61.301		
4,800.00	4,040.97	4,288.35	4,231.51	49.53	17.74	-144.12	1,286.07	-732.82	2,902.71	2,855.36	47.35	61.305		
4,900.00	4,116.95	4,900.00	4,329.87	50.94	20.58	-144.62	1,301.77	-723.27	2,953.20	2,902.44	50.76	58.177		
5,000.00	4,192.93	4,564.86	4,502.31	52.35	19.07	-145.37	1,332.40	-702.03	3,001.44	2,951.23	50.21	59.778		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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	4,268.90	4,618.45	4,554.60	53.76	19.34	-145.58	1,341.88	-695.13	3,049.62	2,998.63	50.99	59.803		
5,200.00	4,344.88	4,677.00	4,611.89	55.16	19.63	-145.81	1,352.17	-688.76	3,099.30	3,047.50	51.80	59.828		
5,300.00	4,420.86	4,746.01	4,679.50	56.57	19.96	-146.09	1,364.09	-681.76	3,149.73	3,097.05	52.68	59.787		
5,400.00	4,496.84	4,906.82	4,837.05	57.98	20.73	-146.73	1,389.97	-662.61	3,198.57	3,144.31	54.27	58.943		
5,500.00	4,572.81	4,975.09	4,903.83	59.39	21.07	-146.99	1,401.12	-653.86	3,246.96	3,191.83	55.13	58.897		
5,600.00	4,648.79	5,033.00	4,960.57	60.81	21.35	-147.21	1,410.51	-647.09	3,296.30	3,240.39	55.90	58.964		
5,700.00	4,724.77	5,073.48	5,000.33	62.22	21.53	-147.36	1,416.81	-642.83	3,346.61	3,290.09	56.52	59.214		
5,800.00	4,800.74	5,122.00	5,048.13	63.63	21.76	-147.56	1,423.79	-638.26	3,397.94	3,340.76	57.17	59.432		
5,900.00	4,876.72	5,273.87	5,197.88	65.04	22.44	-148.19	1,443.72	-622.80	3,448.39	3,389.80	58.60	58.850		
6,000.00	4,952.70	5,417.91	5,339.75	66.45	23.10	-148.75	1,462.40	-606.35	3,498.25	3,438.30	59.95	58.356		
6,100.00	5,028.68	5,509.48	5,429.49	67.86	23.53	-149.07	1,475.99	-594.25	3,546.63	3,485.68	60.95	58.193		
6,200.00	5,104.65	5,567.00	5,486.01	69.27	23.80	-149.27	1,484.23	-587.43	3,596.11	3,534.43	61.68	58.307		
6,300.00	5,180.63	5,621.78	5,539.91	70.69	24.06	-149.45	1,491.91	-581.40	3,646.34	3,583.97	62.37	58.462		
6,400.00	5,256.61	5,727.73	5,644.09	72.10	24.55	-149.81	1,506.97	-569.35	3,696.52	3,633.06	63.46	58.249		
6,500.00	5,332.59	5,820.20	5,735.04	73.51	24.98	-150.12	1,519.59	-558.45	3,746.37	3,681.94	64.43	58.143		
6,600.00	5,408.56	6,000.00	5,833.90	74.92	28.64	-150.44	1,533.68	-546.16	3,795.92	3,727.47	68.45	55.457		
6,700.00	5,484.54	5,961.40	5,873.79	76.34	25.64	-150.56	1,539.42	-541.32	3,845.92	3,779.87	66.05	58.229		
6,800.00	5,560.52	6,012.00	5,923.72	77.75	25.87	-150.73	1,545.88	-536.25	3,897.24	3,830.56	66.68	58.448		
6,900.00	5,636.50	6,058.36	5,969.53	79.16	26.07	-150.88	1,551.57	-532.03	3,949.37	3,882.11	67.26	58.718		
7,000.00	5,712.47	6,158.96	6,068.82	80.57	26.52	-151.20	1,564.73	-522.50	4,001.50	3,933.23	68.27	58.610		
7,100.00	5,788.45	6,257.83	6,166.31	81.99	26.96	-151.49	1,577.93	-512.76	4,053.38	3,984.10	69.28	58.508		
7,200.00	5,864.43	6,374.94	6,281.78	83.40	27.49	-151.84	1,593.20	-500.60	4,104.88	4,034.46	70.42	58.291		
7,300.00	5,940.40	6,559.66	6,463.53	84.81	28.34	-152.35	1,617.62	-478.46	4,155.11	4,083.03	72.08	57.645		
7,400.00	6,016.38	6,599.41	6,502.64	86.23	28.52	-152.46	1,622.72	-473.53	4,204.84	4,132.22	72.63	57.896		
7,500.00	6,092.36	6,653.02	6,555.49	87.64	28.76	-152.61	1,629.17	-467.27	4,255.35	4,182.09	73.26	58.083		
7,600.00	6,168.34	7,222.72	7,110.24	89.05	30.75	-155.27	1,613.57	-372.96	4,300.72	4,225.03	75.70	56.814		
7,700.00	6,244.31	7,261.00	7,145.58	90.47	30.81	-155.60	1,600.64	-366.01	4,343.56	4,267.61	75.96	57.185		
7,800.00	6,320.29	7,261.00	7,145.58	91.88	30.81	-155.60	1,600.64	-366.01	4,387.31	4,311.02	76.29	57.511		
7,900.00	6,396.27	7,261.00	7,145.58	93.30	30.81	-155.60	1,600.64	-366.01	4,432.88	4,356.29	76.58	57.883		
8,000.00	6,472.25	7,261.00	7,145.58	94.71	30.81	-155.60	1,600.64	-366.01	4,480.22	4,403.37	76.85	58.299		
8,100.00	6,548.22	7,261.00	7,145.58	96.12	30.81	-155.60	1,600.64	-366.01	4,529.27	4,452.18	77.08	58.758		
8,200.00	6,624.20	7,301.60	7,182.66	97.54	30.83	-155.96	1,585.12	-360.32	4,579.07	4,501.88	77.19	59.322		
8,300.00	6,700.18	7,314.47	7,194.31	98.95	30.84	-156.08	1,579.84	-358.83	4,630.70	4,553.35	77.34	59.871		
8,400.00	6,776.16	7,350.00	7,226.12	100.37	30.86	-156.42	1,564.40	-355.51	4,684.02	4,606.61	77.41	60.507		
8,500.00	6,852.13	7,350.00	7,226.12	101.78	30.86	-156.42	1,564.40	-355.51	4,738.17	4,660.60	77.56	61.089		
8,600.00	6,928.11	7,350.00	7,226.12	103.20	30.86	-156.42	1,564.40	-355.51	4,793.79	4,716.10	77.69	61.705		
8,700.00	7,004.09	7,386.14	7,257.88	104.61	30.85	-156.78	1,547.36	-352.80	4,850.60	4,772.92	77.68	62.441		
8,800.00	7,080.06	7,419.08	7,286.18	106.02	30.85	-157.12	1,530.67	-350.47	4,908.39	4,830.73	77.66	63.201		
8,900.00	7,156.04	7,439.00	7,302.97	107.44	30.85	-157.33	1,520.04	-349.12	4,967.18	4,889.51	77.67	63.952		
9,000.00	7,232.02	7,475.73	7,333.23	108.85	30.82	-157.72	1,499.37	-346.78	5,026.93	4,949.35	77.58	64.794		
9,104.68	7,311.55	7,501.29	7,353.71	110.33	30.81	-158.00	1,484.15	-345.26	5,090.58	5,013.05	77.53	65.662		
9,150.00	7,346.29	7,528.00	7,374.56	110.97	30.79	-167.08	1,467.52	-343.78	5,118.61	5,041.19	77.42	66.115		
9,200.00	7,385.15	7,528.00	7,374.56	111.65	30.79	-177.15	1,467.52	-343.78	5,149.72	5,072.28	77.44	66.501		
9,250.00	7,424.29	7,528.00	7,374.56	112.31	30.79	172.59	1,467.52	-343.78	5,180.95	5,103.51	77.45	66.897		
9,300.00	7,463.40	7,528.00	7,374.56	112.93	30.79	162.40	1,467.52	-343.78	5,212.07	5,134.63	77.45	67.299		
9,350.00	7,502.19	7,558.48	7,397.68	113.51	30.75	152.37	1,447.71	-342.28	5,242.57	5,165.29	77.28	67.836		
9,400.00	7,540.36	7,570.44	7,406.54	114.04	30.74	143.04	1,439.71	-341.77	5,272.51	5,195.30	77.20	68.293		
9,450.00	7,577.62	7,582.86	7,416.63	114.53	30.72	134.43	1,431.26	-341.28	5,301.55	5,224.44	77.12	68.747		
9,500.00	7,613.70	7,617.00	7,439.95	114.95	30.69	126.58	1,407.32	-340.20	5,329.63	5,252.72	76.90	69.303		
9,550.00	7,648.30	7,617.00	7,439.95	115.32	30.69	119.64	1,407.32	-340.20	5,356.13	5,279.25	76.88	69.668		
9,600.00	7,681.18	7,617.00	7,439.95	115.63	30.69	113.50	1,407.32	-340.20	5,381.24	5,304.38	76.86	70.012		
9,650.00	7,712.08	7,617.00	7,439.95	115.88	30.69	108.12	1,407.32	-340.20	5,404.78	5,327.93	76.85	70.329		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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		
9,700.00	7,740.76	7,617.00	7,439.95	116.08	30.69	103.44	1,407.32	-340.20	5,426.59	5,349.74	76.85	70.612		
9,750.00	7,767.01	7,617.00	7,439.95	116.23	30.69	99.41	1,407.32	-340.20	5,446.53	5,369.66	76.87	70.855		
9,800.00	7,790.63	7,656.62	7,466.86	116.33	30.62	96.11	1,378.26	-339.65	5,463.75	5,387.07	76.67	71.259		
9,850.00	7,811.44	7,665.77	7,472.86	116.38	30.60	93.30	1,371.35	-339.66	5,479.20	5,402.52	76.68	71.454		
9,900.00	7,829.28	7,707.00	7,498.87	116.38	30.54	91.13	1,339.37	-340.37	5,492.82	5,416.32	76.51	71.794		
9,950.00	7,844.01	7,707.00	7,498.87	116.35	30.54	89.30	1,339.37	-340.37	5,503.39	5,426.76	76.63	71.818		
10,000.00	7,855.52	7,707.00	7,498.87	116.28	30.54	87.92	1,339.37	-340.37	5,511.59	5,434.80	76.79	71.779		
10,050.00	7,863.72	7,707.00	7,498.87	116.18	30.54	86.96	1,339.37	-340.37	5,517.37	5,440.40	76.98	71.673		
10,100.00	7,868.56	7,707.00	7,498.87	116.06	30.54	86.41	1,339.37	-340.37	5,520.71	5,443.50	77.21	71.501		
10,145.94	7,870.00	7,707.00	7,498.87	115.92	30.54	86.25	1,339.37	-340.37	5,521.61	5,444.15	77.46	71.283		
10,164.37	7,870.00	7,707.00	7,498.87	115.87	30.54	86.25	1,339.37	-340.37	5,521.58	5,444.01	77.57	71.183		
10,200.00	7,870.00	7,707.00	7,498.87	115.76	30.54	86.25	1,339.37	-340.37	5,521.69	5,443.91	77.78	70.994		
10,300.00	7,870.00	7,753.78	7,526.17	115.46	30.44	86.53	1,301.45	-342.28	5,522.50	5,444.45	78.05	70.757		
10,400.00	7,870.00	7,796.00	7,548.66	115.18	30.36	86.77	1,265.81	-344.84	5,525.13	5,446.78	78.35	70.516		
10,500.00	7,870.00	8,182.75	7,665.48	114.91	29.57	87.98	900.37	-351.80	5,524.10	5,448.14	75.97	72.717		
10,600.00	7,870.00	8,272.39	7,673.81	114.65	29.45	88.07	811.14	-350.69	5,522.21	5,446.18	76.03	72.635		
10,700.00	7,870.00	10,700.00	7,680.26	114.41	96.52	88.13	579.13	-345.59	5,519.92	5,427.09	92.83	59.460		
10,800.00	7,870.00	8,555.31	7,681.02	114.17	30.43	88.14	528.46	-343.68	5,516.03	5,439.82	76.21	72.383		
10,900.00	7,870.00	8,597.00	7,681.48	113.95	30.71	88.14	486.78	-342.87	5,513.52	5,436.74	76.77	71.814		
11,000.00	7,870.00	8,659.16	7,681.99	113.75	31.16	88.15	424.63	-342.20	5,511.95	5,434.56	77.39	71.223		
11,100.00	7,870.00	8,686.00	7,682.16	113.55	31.36	88.15	397.78	-341.91	5,511.00	5,432.95	78.05	70.607		
11,141.45	7,870.00	8,716.52	7,682.33	113.47	31.60	88.15	367.27	-341.81	5,510.80	5,432.44	78.35	70.331		
11,200.00	7,870.00	8,732.13	7,682.41	113.37	31.72	88.15	351.65	-341.94	5,511.08	5,432.32	78.76	69.972		
11,300.00	7,870.00	8,775.00	7,682.58	113.20	32.06	88.16	308.80	-342.92	5,512.70	5,433.21	79.49	69.347		
11,400.00	7,870.00	8,802.00	7,682.71	113.04	32.28	88.16	281.81	-343.86	5,515.42	5,435.16	80.26	68.719		
11,500.00	7,870.00	8,872.45	7,683.53	112.89	32.88	88.17	211.42	-346.60	5,518.93	5,437.81	81.12	68.036		
11,600.00	7,870.00	8,957.34	7,685.28	112.76	33.63	88.19	126.63	-350.25	5,522.82	5,440.72	82.10	67.267		
11,700.00	7,870.00	9,204.38	7,690.89	112.64	36.08	88.25	-120.18	-358.65	5,526.24	5,442.16	84.08	65.723		
11,800.00	7,870.00	9,359.87	7,690.62	112.53	37.79	88.24	-275.65	-360.38	5,526.97	5,441.00	85.96	64.294		
11,900.00	7,870.00	9,488.70	7,688.91	112.44	39.30	88.23	-404.47	-360.95	5,527.14	5,439.30	87.83	62.927		
12,000.00	7,870.00	9,599.94	7,686.76	112.36	40.66	88.20	-515.69	-360.91	5,526.81	5,437.12	89.69	61.621		
12,100.00	7,870.00	9,702.04	7,684.44	112.29	41.94	88.18	-617.76	-360.94	5,526.58	5,435.02	91.55	60.364		
12,200.00	7,870.00	9,872.95	7,684.12	112.24	44.18	88.18	-788.67	-359.66	5,525.47	5,431.06	94.41	58.526		
12,300.00	7,870.00	10,028.94	7,683.39	112.20	46.30	88.17	-944.63	-356.91	5,523.44	5,426.15	97.29	56.770		
12,400.00	7,870.00	10,138.07	7,681.55	112.17	47.82	88.15	-1,053.69	-353.82	5,520.30	5,420.66	99.64	55.404		
12,500.00	7,870.00	10,200.00	7,680.91	112.16	48.70	88.14	-1,115.61	-352.69	5,518.03	5,416.71	101.31	54.464		
12,600.00	7,870.00	10,280.66	7,680.40	112.17	49.85	88.13	-1,196.26	-351.65	5,516.35	5,413.02	103.32	53.388		
12,700.00	7,870.00	10,327.36	7,680.24	112.19	50.53	88.13	-1,242.96	-351.13	5,514.97	5,410.15	104.82	52.616		
12,770.22	7,870.00	10,356.01	7,680.47	112.22	50.94	88.13	-1,271.61	-351.10	5,514.64	5,408.83	105.81	52.119		
12,800.00	7,870.00	10,379.00	7,680.85	112.23	51.27	88.14	-1,294.59	-351.24	5,514.68	5,408.28	106.41	51.827		
12,900.00	7,870.00	10,481.57	7,682.66	112.28	52.77	88.16	-1,397.15	-351.89	5,514.94	5,406.04	108.89	50.645		
12,903.44	7,870.00	10,486.37	7,682.74	112.29	52.84	88.16	-1,401.95	-351.91	5,514.94	5,405.93	109.00	50.594		
13,000.00	7,870.00	10,575.13	7,683.97	112.36	54.15	88.17	-1,490.70	-352.40	5,515.09	5,403.81	111.28	49.560		
13,100.00	7,870.00	10,704.83	7,684.65	112.45	56.09	88.18	-1,620.39	-352.52	5,514.81	5,400.43	114.37	48.217		
13,187.07	7,870.00	10,767.74	7,684.27	112.54	57.04	88.17	-1,683.30	-352.51	5,514.54	5,398.36	116.18	47.465		
13,200.00	7,870.00	10,774.94	7,684.29	112.56	57.15	88.17	-1,690.50	-352.53	5,514.55	5,398.14	116.41	47.373		
13,300.00	7,870.00	13,300.00	7,685.61	112.68	95.85	88.19	-1,792.63	-353.18	5,514.80	5,358.54	156.27	35.291		
13,400.00	7,870.00	11,091.00	7,687.26	112.83	62.01	88.20	-2,006.51	-350.52	5,512.48	5,388.39	124.09	44.424		
13,500.00	7,870.00	11,135.73	7,687.47	113.00	62.71	88.21	-2,051.24	-349.72	5,510.70	5,384.98	125.72	43.835		
13,550.80	7,870.00	11,149.12	7,687.59	113.09	62.92	88.21	-2,064.62	-349.68	5,510.36	5,384.01	126.35	43.611		
13,600.00	7,870.00	11,181.00	7,687.98	113.19	63.42	88.21	-2,096.50	-349.96	5,510.49	5,383.13	127.36	43.268		
13,600.25	7,870.00	11,181.00	7,687.98	113.19	63.42	88.21	-2,096.50	-349.96	5,510.49	5,383.13	127.36	43.267		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,700.00	7,870.00	11,202.69	7,688.27	113.40	63.76	88.21	-2,118.18	-350.34	5,511.34	5,382.83	128.51	42.887		
13,800.00	7,870.00	11,297.91	7,689.13	113.63	65.24	88.22	-2,213.38	-352.22	5,512.94	5,381.74	131.21	42.017		
13,900.00	7,870.00	11,576.74	7,698.51	113.89	69.68	88.32	-2,492.02	-352.85	5,512.56	5,374.53	138.03	39.937		
14,000.00	7,870.00	11,707.26	7,699.21	114.18	71.78	88.33	-2,622.51	-350.59	5,510.47	5,368.81	141.65	38.901		
14,100.00	7,870.00	11,749.37	7,698.82	114.48	72.46	88.32	-2,664.62	-349.94	5,508.66	5,365.36	143.29	38.443		
14,200.00	7,870.00	11,804.00	7,698.13	114.82	73.35	88.32	-2,719.24	-349.89	5,508.07	5,362.85	145.21	37.931		
14,222.99	7,870.00	11,804.00	7,698.13	114.90	73.35	88.32	-2,719.24	-349.89	5,508.02	5,362.65	145.37	37.890		
14,300.00	7,870.00	11,828.15	7,697.79	115.18	73.74	88.31	-2,743.39	-350.13	5,508.45	5,362.01	146.43	37.617		
14,400.00	7,870.00	11,893.00	7,697.06	115.57	74.78	88.31	-2,808.22	-351.38	5,509.95	5,361.37	148.58	37.083		
14,500.00	7,870.00	11,948.24	7,696.29	115.99	75.67	88.30	-2,863.44	-352.84	5,512.15	5,361.63	150.51	36.622		
14,600.00	7,870.00	12,016.55	7,694.81	116.44	76.77	88.28	-2,931.71	-354.79	5,514.77	5,362.02	152.75	36.104		
14,700.00	7,870.00	12,072.00	7,694.03	116.92	77.67	88.28	-2,987.11	-356.84	5,518.16	5,363.48	154.68	35.674		
14,800.00	7,870.00	12,306.62	7,696.13	117.44	81.49	88.30	-3,221.62	-363.24	5,520.24	5,359.26	160.99	34.290		
14,900.00	7,870.00	12,372.08	7,695.73	117.98	82.56	88.29	-3,287.06	-364.44	5,521.81	5,358.60	163.21	33.833		
15,000.00	7,870.00	12,428.00	7,695.80	118.56	83.47	88.30	-3,342.96	-366.02	5,524.25	5,359.05	165.20	33.440		
15,100.00	7,870.00	12,740.46	7,698.27	119.17	88.64	88.32	-3,655.34	-369.73	5,525.03	5,351.40	173.63	31.821		
15,200.00	7,870.00	12,826.59	7,699.23	119.81	90.08	88.33	-3,741.45	-369.03	5,523.88	5,347.43	176.44	31.307		
15,300.00	7,870.00	12,887.35	7,701.31	120.48	91.10	88.35	-3,802.18	-369.05	5,523.45	5,344.82	178.63	30.922		
15,340.03	7,870.00	12,921.43	7,702.78	120.76	91.67	88.37	-3,836.23	-369.18	5,523.43	5,343.67	179.76	30.727		
15,400.00	7,870.00	12,983.88	7,705.60	121.19	92.72	88.40	-3,898.61	-369.51	5,523.47	5,341.72	181.74	30.392		
15,500.00	7,870.00	13,189.82	7,713.23	121.93	96.18	88.48	-4,104.40	-368.07	5,522.19	5,334.49	187.70	29.420		
15,600.00	7,870.00	13,297.01	7,715.81	122.71	98.00	88.50	-4,211.54	-366.32	5,520.16	5,329.03	191.13	28.882		
15,700.00	7,870.00	13,391.58	7,717.29	123.52	99.60	88.52	-4,306.08	-364.73	5,518.10	5,323.88	194.23	28.410		
15,800.00	7,870.00	13,559.44	7,719.87	124.36	102.45	88.54	-4,473.88	-360.95	5,515.46	5,316.21	199.25	27.681		
15,900.00	7,870.00	13,647.18	7,720.88	125.23	103.95	88.55	-4,561.58	-358.53	5,512.34	5,310.13	202.21	27.261		
16,000.00	7,870.00	13,719.03	7,721.64	126.14	105.18	88.56	-4,633.41	-356.75	5,509.53	5,304.78	204.74	26.910		
16,100.00	7,870.00	13,786.00	7,722.39	127.07	106.32	88.57	-4,700.36	-355.68	5,507.49	5,300.34	207.15	26.587		
16,200.00	7,870.00	13,824.86	7,722.86	128.04	106.98	88.57	-4,739.22	-355.39	5,506.24	5,297.44	208.80	26.371		
16,293.11	7,870.00	13,875.00	7,723.49	128.97	107.83	88.58	-4,789.36	-355.39	5,505.89	5,295.20	210.69	26.132		
16,300.00	7,870.00	13,875.00	7,723.49	129.04	107.83	88.58	-4,789.36	-355.39	5,505.90	5,295.17	210.73	26.128		
16,400.00	7,870.00	13,933.29	7,724.26	130.06	108.82	88.59	-4,847.64	-355.89	5,506.39	5,293.51	212.88	25.866		
16,500.00	7,870.00	14,270.34	7,719.95	131.11	114.58	88.54	-5,184.53	-351.37	5,503.86	5,281.32	222.54	24.732		
16,600.00	7,870.00	14,320.00	7,718.27	132.19	115.43	88.52	-5,234.14	-350.01	5,500.88	5,276.38	224.50	24.503		
16,700.00	7,870.00	14,381.89	7,716.22	133.29	116.50	88.50	-5,295.98	-348.81	5,498.70	5,271.92	226.78	24.247		
16,800.00	7,870.00	14,438.73	7,714.36	134.42	117.47	88.48	-5,352.79	-348.13	5,497.27	5,268.36	228.91	24.015		
16,900.00	7,870.00	14,499.00	7,712.40	135.57	118.50	88.46	-5,413.03	-347.94	5,496.66	5,265.54	231.13	23.782		
16,916.76	7,870.00	14,499.00	7,712.40	135.77	118.50	88.46	-5,413.03	-347.94	5,496.64	5,265.42	231.22	23.772		
17,000.00	7,870.00	14,544.62	7,710.90	136.75	119.28	88.45	-5,458.62	-348.18	5,496.90	5,263.97	232.93	23.599		
17,100.00	7,870.00	14,588.00	7,709.46	137.94	120.02	88.43	-5,501.98	-348.75	5,498.04	5,263.39	234.65	23.431		
17,200.00	7,870.00	14,657.80	7,707.22	139.16	121.21	88.41	-5,571.72	-350.21	5,499.93	5,262.84	237.09	23.197		
17,300.00	7,870.00	14,714.02	7,705.54	140.39	122.16	88.39	-5,627.89	-351.84	5,502.58	5,263.43	239.15	23.009		
17,400.00	7,870.00	14,766.00	7,704.16	141.65	123.05	88.38	-5,679.82	-353.77	5,506.05	5,264.98	241.07	22.840		
17,500.00	7,870.00	14,816.94	7,702.94	142.92	123.91	88.36	-5,730.70	-356.12	5,510.41	5,267.46	242.95	22.681		
17,600.00	7,870.00	14,869.23	7,701.78	144.21	124.79	88.35	-5,782.89	-359.03	5,515.68	5,270.84	244.85	22.527		
17,700.00	7,870.00	14,933.45	7,700.74	145.52	125.87	88.34	-5,846.97	-363.07	5,521.69	5,274.60	247.09	22.347		
17,800.00	7,870.00	15,001.33	7,700.20	146.84	127.01	88.34	-5,914.69	-367.78	5,528.31	5,278.87	249.44	22.163		
17,900.00	7,870.00	15,069.91	7,700.32	148.18	128.16	88.34	-5,983.07	-372.94	5,535.49	5,283.69	251.80	21.984		
18,000.00	7,870.00	15,162.39	7,701.51	149.54	129.72	88.36	-6,075.24	-380.41	5,543.18	5,288.29	254.89	21.747		
18,100.00	7,870.00	15,993.11	7,733.02	150.90	144.00	88.69	-6,904.36	-391.14	5,542.88	5,263.54	279.34	19.842		
18,200.00	7,870.00	16,059.74	7,734.35	152.28	145.17	88.70	-6,970.90	-387.87	5,537.60	5,255.73	281.87	19.646		
18,300.00	7,870.00	16,123.12	7,735.39	153.67	146.27	88.71	-7,034.22	-385.17	5,532.97	5,248.67	284.30	19.462		
18,400.00	7,870.00	16,191.00	7,736.45	155.07	147.46	88.72	-7,102.05	-382.73	5,528.99	5,242.15	286.84	19.275		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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	7,870.00	16,247.05	7,737.33	156.49	148.44	88.73	-7,158.06	-381.11	5,525.70	5,236.65	289.05	19.117	
18,600.00	7,870.00	16,308.65	7,738.31	157.91	149.51	88.74	-7,219.64	-379.75	5,523.12	5,231.73	291.39	18.954	
18,700.00	7,870.00	16,370.00	7,739.30	159.35	150.58	88.75	-7,280.98	-378.80	5,521.22	5,227.50	293.72	18.798	
18,800.00	7,870.00	16,432.60	7,740.36	160.79	151.66	88.76	-7,343.56	-378.26	5,520.00	5,223.93	296.07	18.644	
18,900.00	7,870.00	16,537.40	7,742.22	162.25	153.48	88.78	-7,448.35	-377.89	5,519.27	5,219.65	299.63	18.421	
19,000.00	7,870.00	16,682.60	7,744.73	163.71	156.01	88.80	-7,593.52	-376.40	5,517.85	5,213.51	304.34	18.130	
19,100.00	7,870.00	16,805.45	7,746.56	165.18	158.15	88.82	-7,716.34	-374.42	5,515.88	5,207.46	308.42	17.884	
19,200.00	7,870.00	16,907.16	7,748.00	166.66	159.92	88.84	-7,818.02	-372.55	5,513.67	5,201.77	311.91	17.677	
19,300.00	7,870.00	17,010.24	7,749.42	168.15	161.72	88.85	-7,921.07	-370.64	5,511.46	5,196.03	315.43	17.473	
19,400.00	7,870.00	17,134.56	7,751.25	169.65	163.90	88.87	-8,045.35	-368.00	5,508.97	5,189.42	319.56	17.239	
19,500.00	7,870.00	17,247.27	7,752.65	171.15	165.87	88.88	-8,158.02	-365.19	5,506.12	5,182.76	323.36	17.028	
19,600.00	7,870.00	17,319.82	7,752.83	172.66	167.14	88.88	-8,230.54	-363.45	5,503.39	5,177.37	326.02	16.880	
19,700.00	7,870.00	17,383.88	7,752.66	174.18	168.25	88.88	-8,294.59	-362.29	5,501.26	5,172.83	328.43	16.750	
19,800.00	7,870.00	17,471.19	7,752.11	175.70	169.78	88.88	-8,381.90	-361.19	5,499.67	5,168.16	331.50	16.590	
19,889.26	7,870.00	17,487.00	7,752.00	177.06	170.05	88.87	-8,397.71	-361.00	5,498.77	5,166.34	332.43	16.541 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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	-53.95	786.89	-1,081.06	1,337.15					
100.00	100.00	93.37	93.37	0.13	0.14	-53.95	786.88	-1,080.91	1,337.00	1,336.73	0.27	4,872.394		
200.00	200.00	193.50	193.50	0.49	0.40	-53.94	786.84	-1,080.55	1,336.68	1,335.79	0.89	1,502.623		
300.00	300.00	290.69	290.69	0.85	0.74	-53.95	786.63	-1,080.52	1,336.53	1,334.94	1.59	841.955		
302.49	302.49	293.12	293.11	0.86	0.74	-122.09	786.62	-1,080.52	1,336.52	1,334.92	1.60	832.875	CC, ES	
400.00	399.98	384.81	384.81	1.21	1.06	-122.15	786.41	-1,080.83	1,337.59	1,335.32	2.27	589.353		
500.00	499.84	477.61	477.61	1.56	1.39	-122.27	786.64	-1,081.41	1,341.03	1,338.08	2.95	454.728		
600.00	599.45	570.15	570.14	1.93	1.71	-122.46	787.33	-1,082.25	1,346.89	1,343.25	3.64	370.383		
700.00	698.70	670.54	670.50	2.32	2.06	-122.69	789.60	-1,082.42	1,354.93	1,350.56	4.36	310.585		
800.00	797.47	796.12	795.71	2.72	2.51	-122.85	797.53	-1,077.60	1,363.99	1,358.79	5.20	262.404		
900.00	895.62	937.18	935.61	3.16	3.03	-122.92	810.21	-1,064.88	1,372.15	1,366.02	6.13	223.823		
1,000.00	993.06	1,034.56	1,032.00	3.63	3.40	-122.98	819.14	-1,054.39	1,380.95	1,374.00	6.95	198.805		
1,100.00	1,089.64	1,128.60	1,124.99	4.14	3.78	-123.08	828.60	-1,044.01	1,391.94	1,384.16	7.79	178.746		
1,200.00	1,185.27	1,231.01	1,226.25	4.70	4.19	-123.29	839.11	-1,032.88	1,405.15	1,396.45	8.70	161.510		
1,300.00	1,279.82	1,376.98	1,369.91	5.31	4.81	-123.69	855.47	-1,012.99	1,418.69	1,408.85	9.84	144.130		
1,400.00	1,373.17	1,461.98	1,453.08	5.97	5.20	-123.82	866.35	-999.21	1,432.81	1,422.02	10.80	132.711		
1,500.00	1,465.21	1,538.44	1,527.78	6.69	5.55	-123.91	877.18	-987.10	1,450.00	1,438.24	11.75	123.356		
1,600.00	1,555.84	1,608.69	1,596.40	7.47	5.88	-123.97	888.10	-976.71	1,470.80	1,458.08	12.72	115.610		
1,700.00	1,644.94	1,702.48	1,688.05	8.31	6.32	-124.21	903.33	-963.87	1,494.91	1,481.07	13.84	108.004		
1,800.00	1,732.39	1,826.15	1,809.17	9.23	6.89	-124.81	921.35	-946.59	1,520.16	1,505.02	15.14	100.404		
1,900.00	1,818.11	1,936.36	1,917.32	10.21	7.40	-125.45	934.62	-930.07	1,545.52	1,529.12	16.39	94.276		
2,000.00	1,901.97	2,006.63	1,986.46	11.26	7.72	-125.74	942.60	-920.36	1,573.97	1,556.50	17.48	90.060		
2,100.00	1,983.88	2,079.00	2,057.72	12.38	8.05	-126.05	951.29	-911.21	1,606.11	1,587.52	18.59	86.400		
2,200.00	2,063.74	2,150.56	2,128.19	13.57	8.37	-126.34	960.42	-902.75	1,641.70	1,621.98	19.72	83.262		
2,300.00	2,141.45	2,224.06	2,200.56	14.84	8.70	-126.63	970.26	-894.47	1,680.52	1,659.65	20.87	80.512		
2,327.78	2,162.65	2,244.20	2,220.38	15.21	8.80	-126.71	973.03	-892.27	1,691.88	1,670.68	21.20	79.822		
2,400.00	2,217.51	2,329.73	2,304.48	16.17	9.19	-127.84	985.07	-882.41	1,721.59	1,699.37	22.22	77.483		
2,500.00	2,293.49	2,461.05	2,433.31	17.51	9.80	-129.47	1,002.54	-863.91	1,760.71	1,737.01	23.70	74.294		
2,600.00	2,369.47	2,523.55	2,494.69	18.86	10.09	-130.23	1,010.43	-855.18	1,800.48	1,775.70	24.78	72.651		
2,700.00	2,445.45	2,585.07	2,555.22	20.22	10.38	-130.96	1,018.27	-847.43	1,841.93	1,816.10	25.83	71.298		
2,800.00	2,521.42	2,706.20	2,674.36	21.59	10.94	-132.34	1,033.74	-832.09	1,883.95	1,856.74	27.21	69.243		
2,900.00	2,597.40	2,873.09	2,837.74	22.97	11.74	-134.07	1,054.75	-805.41	1,923.67	1,894.84	28.83	66.729		
3,000.00	2,673.38	2,945.43	2,908.63	24.34	12.09	-134.82	1,062.26	-793.14	1,962.30	1,932.40	29.90	65.636		
3,100.00	2,749.36	3,061.10	3,021.61	25.73	12.65	-135.92	1,076.01	-772.49	2,001.06	1,969.86	31.20	64.137		
3,200.00	2,825.33	3,095.68	3,055.50	27.11	12.81	-136.25	1,079.91	-766.86	2,040.93	2,008.89	32.03	63.710		
3,300.00	2,901.31	3,143.95	3,103.01	28.50	13.04	-136.72	1,084.89	-759.91	2,082.91	2,050.00	32.90	63.302		
3,400.00	2,977.29	3,209.84	3,167.88	29.90	13.34	-137.34	1,092.36	-751.09	2,126.40	2,092.55	33.85	62.817		
3,500.00	3,053.27	3,305.63	3,261.89	31.29	13.80	-138.15	1,105.31	-738.05	2,170.54	2,135.55	34.99	62.027		
3,600.00	3,129.24	3,416.32	3,370.20	32.69	14.34	-139.01	1,121.05	-721.59	2,214.01	2,177.77	36.24	61.094		
3,700.00	3,205.22	3,486.75	3,439.12	34.08	14.68	-139.53	1,131.13	-711.10	2,257.75	2,220.54	37.21	60.668		
3,800.00	3,281.20	3,568.81	3,519.47	35.48	15.08	-140.13	1,142.85	-699.27	2,302.15	2,263.89	38.25	60.184		
3,900.00	3,357.18	3,632.99	3,582.41	36.88	15.39	-140.59	1,151.71	-690.41	2,347.23	2,308.08	39.15	59.956		
4,000.00	3,433.15	4,000.00	3,683.18	38.29	17.13	-141.31	1,165.47	-676.49	2,392.64	2,351.18	41.47	57.700		
4,100.00	3,509.13	3,827.17	3,772.86	39.69	16.32	-141.92	1,178.03	-663.19	2,437.49	2,396.14	41.35	58.944		
4,200.00	3,585.11	3,893.08	3,837.47	41.09	16.63	-142.35	1,187.35	-654.08	2,483.23	2,441.00	42.23	58.799		
4,300.00	3,661.08	3,958.82	3,902.11	42.50	16.94	-142.78	1,195.88	-645.66	2,529.86	2,486.77	43.09	58.713		
4,400.00	3,737.06	4,031.17	3,973.41	43.90	17.27	-143.26	1,204.56	-637.00	2,577.25	2,533.29	43.96	58.627		
4,500.00	3,813.04	4,173.57	4,113.58	45.31	17.93	-144.16	1,221.81	-618.84	2,624.26	2,578.95	45.30	57.925		
4,600.00	3,889.02	4,600.00	4,237.51	46.71	20.04	-144.84	1,239.71	-599.67	2,669.55	2,621.60	47.95	55.674		
4,700.00	3,964.99	4,382.94	4,318.27	48.12	18.96	-145.27	1,251.42	-586.32	2,714.18	2,666.62	47.56	57.068		
4,800.00	4,040.97	4,459.64	4,393.34	49.53	19.34	-145.67	1,262.03	-574.72	2,759.75	2,711.27	48.48	56.926		
4,900.00	4,116.95	4,562.53	4,493.99	50.94	19.84	-146.18	1,276.24	-558.80	2,805.17	2,755.60	49.58	56.582		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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	4,192.93	4,627.53	4,557.55	52.35	20.16	-146.49	1,285.35	-548.63	2,850.66	2,800.26	50.40	56.557		
5,100.00	4,268.90	4,679.00	4,608.01	53.76	20.41	-146.74	1,292.28	-541.27	2,897.31	2,846.19	51.12	56.681		
5,200.00	4,344.88	4,778.16	4,705.37	55.16	20.89	-147.21	1,305.17	-527.55	2,944.46	2,892.31	52.15	56.458		
5,300.00	4,420.86	4,893.29	4,818.06	56.57	21.45	-147.72	1,321.29	-510.43	2,990.87	2,937.54	53.32	56.088		
5,400.00	4,496.84	4,992.85	4,915.29	57.98	21.95	-148.12	1,336.30	-495.14	3,037.10	2,982.70	54.40	55.827		
5,500.00	4,572.81	5,059.60	4,980.40	59.39	22.28	-148.37	1,346.60	-484.58	3,083.12	3,027.89	55.23	55.821		
5,600.00	4,648.79	5,096.04	5,016.09	60.81	22.46	-148.52	1,351.79	-479.42	3,130.50	3,074.69	55.81	56.093		
5,700.00	4,724.77	5,142.90	5,062.19	62.22	22.68	-148.72	1,357.85	-473.61	3,179.31	3,122.87	56.44	56.334		
5,800.00	4,800.74	5,228.45	5,146.50	63.63	23.07	-149.09	1,368.10	-463.35	3,228.60	3,171.27	57.33	56.317		
5,900.00	4,876.72	5,300.00	5,216.50	65.04	23.32	-150.01	1,394.98	-433.17	3,277.37	3,216.21	61.16	53.586		
6,000.00	4,952.70	5,365.97	5,277.28	66.45	24.70	-150.39	1,411.86	-413.39	3,322.33	3,261.96	60.37	55.029		
6,100.00	5,028.68	5,442.75	5,358.96	67.86	25.11	-150.65	1,423.89	-399.63	3,367.66	3,306.37	61.29	54.946		
6,200.00	5,104.65	5,518.20	5,434.01	69.27	25.44	-150.89	1,431.93	-388.82	3,413.40	3,351.34	62.05	55.007		
6,300.00	5,180.63	5,593.75	5,509.15	70.69	25.79	-151.16	1,440.28	-377.23	3,459.79	3,396.94	62.85	55.047		
6,400.00	5,256.61	5,669.22	5,584.62	72.10	26.30	-151.53	1,452.57	-360.70	3,506.26	3,442.39	63.87	54.895		
6,500.00	5,332.59	5,744.70	5,659.10	73.51	26.48	-151.64	1,458.01	-354.69	3,552.78	3,488.35	64.43	55.145		
6,600.00	5,408.56	5,820.17	5,734.57	74.92	26.72	-151.78	1,465.48	-347.19	3,600.32	3,535.25	65.07	55.332		
6,700.00	5,484.54	5,895.64	5,809.04	76.34	26.92	-151.90	1,471.04	-342.11	3,649.56	3,583.94	65.62	55.619		
6,800.00	5,560.52	5,971.12	5,883.02	77.75	27.17	-152.08	1,478.16	-335.58	3,699.83	3,633.56	66.27	55.833		
6,900.00	5,636.50	6,046.60	5,957.50	79.16	31.16	-152.72	1,502.59	-308.37	3,748.40	3,677.68	70.73	52.997		
7,000.00	5,712.47	6,122.07	6,033.07	80.57	28.42	-152.90	1,511.23	-298.99	3,796.25	3,727.50	68.75	55.222		
7,100.00	5,788.45	6,197.54	6,108.54	81.99	28.67	-153.06	1,517.84	-291.66	3,845.09	3,775.71	69.38	55.420		
7,200.00	5,864.43	6,273.01	6,179.01	83.40	29.41	-153.49	1,537.69	-270.01	3,893.98	3,823.18	70.80	55.002		
7,300.00	5,940.40	6,348.48	6,254.48	84.81	29.97	-153.82	1,551.70	-251.95	3,941.01	3,869.12	71.89	54.821		
7,400.00	6,016.38	6,423.95	6,330.95	86.23	30.18	-153.93	1,557.66	-245.24	3,988.61	3,916.15	72.46	55.042		
7,500.00	6,092.36	6,500.00	6,406.00	87.64	30.49	-154.07	1,567.14	-236.33	4,037.12	3,963.92	73.20	55.155		
7,600.00	6,168.34	6,575.47	6,481.47	89.05	32.71	-155.94	1,586.15	-141.79	4,081.70	4,005.64	76.05	53.669		
7,700.00	6,244.31	6,650.94	6,556.94	90.47	32.71	-155.94	1,586.15	-141.79	4,122.74	4,046.35	76.40	53.966		
7,800.00	6,320.29	6,726.41	6,632.41	91.88	32.71	-155.94	1,586.15	-141.79	4,165.79	4,089.09	76.70	54.313		
7,900.00	6,396.27	6,801.88	6,707.88	93.30	32.83	-156.27	1,576.42	-131.76	4,209.31	4,132.32	76.99	54.676		
8,000.00	6,472.25	6,877.35	6,783.35	94.71	32.94	-156.56	1,567.86	-124.91	4,255.62	4,178.36	77.26	55.083		
8,100.00	6,548.22	6,952.82	6,858.82	96.12	32.94	-156.56	1,567.86	-124.91	4,302.66	4,225.18	77.49	55.529		
8,200.00	6,624.20	7,028.30	6,934.30	97.54	32.96	-156.62	1,566.15	-123.73	4,351.49	4,273.80	77.69	56.012		
8,300.00	6,700.18	7,103.77	7,009.77	98.95	33.78	-161.34	1,358.90	-22.47	4,395.86	4,319.06	76.79	57.242		
8,400.00	6,776.16	7,179.24	7,085.24	100.37	33.78	-161.34	1,358.90	-22.47	4,439.81	4,362.75	77.06	57.614		
8,500.00	6,852.13	7,254.71	7,160.71	101.78	33.78	-161.34	1,358.90	-22.47	4,485.56	4,408.26	77.30	58.029		
8,600.00	6,928.11	7,330.18	7,236.18	103.20	33.78	-161.34	1,358.90	-22.47	4,533.05	4,455.55	77.51	58.487		
8,700.00	7,004.09	7,405.65	7,311.65	104.61	33.78	-161.34	1,358.90	-22.47	4,582.24	4,504.55	77.69	58.985		
8,800.00	7,080.06	7,481.12	7,387.12	106.02	33.77	-161.83	1,330.75	-14.63	4,632.26	4,554.64	77.62	59.679		
8,900.00	7,156.04	7,556.60	7,462.60	107.44	33.77	-161.96	1,323.64	-12.94	4,684.20	4,606.50	77.70	60.285		
9,000.00	7,232.02	7,632.07	7,538.07	108.85	33.76	-162.43	1,295.29	-7.16	4,738.01	4,660.41	77.60	61.057		
9,104.68	7,311.55	7,707.54	7,613.54	110.33	33.76	-162.43	1,295.29	-7.16	4,795.21	4,717.50	77.70	61.712		
9,150.00	7,346.29	7,752.01	7,658.01	110.97	33.76	-170.71	1,295.29	-7.16	4,820.45	4,742.71	77.74	62.007		
9,200.00	7,385.15	7,790.87	7,696.87	111.65	33.76	-179.82	1,295.29	-7.16	4,848.48	4,770.70	77.78	62.339		
9,250.00	7,424.29	7,829.73	7,735.73	112.31	33.76	-170.19	1,295.29	-7.16	4,876.48	4,798.68	77.81	62.676		
9,300.00	7,463.40	7,868.60	7,774.60	112.93	33.76	-160.65	1,295.29	-7.16	4,904.26	4,826.43	77.83	63.015		
9,350.00	7,502.19	7,907.46	7,813.46	113.51	33.76	-151.43	1,295.29	-7.16	4,931.60	4,853.76	77.84	63.356		
9,400.00	7,540.36	7,946.32	7,852.32	114.04	33.76	-142.72	1,295.29	-7.16	4,958.30	4,880.45	77.85	63.693		
9,450.00	7,577.62	7,985.18	7,889.18	114.53	33.76	-134.67	1,295.29	-7.16	4,984.18	4,906.33	77.85	64.023		
9,500.00	7,613.70	8,024.04	7,928.04	114.95	33.76	-127.35	1,295.29	-7.16	5,009.04	4,931.19	77.85	64.341		
9,550.00	7,648.30	8,062.90	7,966.90	115.32	33.72	-120.67	1,263.91	-2.28	5,031.94	4,954.31	77.63	64.822		
9,600.00	7,681.18	8,101.76	7,995.76	115.63	33.71	-114.88	1,256.80	-1.36	5,053.90	4,976.31	77.58	65.143		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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		
9,650.00	7,712.08	8,065.00	7,807.24	115.88	33.67	109.75	1,222.28	2.24	5,074.77	4,997.43	77.34	65.618		
9,700.00	7,740.76	8,065.00	7,807.24	116.08	33.67	105.41	1,222.28	2.24	5,093.17	5,015.80	77.36	65.834		
9,750.00	7,767.01	8,065.00	7,807.24	116.23	33.67	101.68	1,222.28	2.24	5,109.79	5,032.38	77.41	66.012		
9,800.00	7,790.63	8,065.00	7,807.24	116.33	33.67	98.52	1,222.28	2.24	5,124.52	5,047.05	77.47	66.149		
9,850.00	7,811.44	8,065.00	7,807.24	116.38	33.67	95.89	1,222.28	2.24	5,137.28	5,059.72	77.56	66.238		
9,900.00	7,829.28	8,065.00	7,807.24	116.38	33.67	93.74	1,222.28	2.24	5,147.98	5,070.30	77.68	66.275		
9,950.00	7,844.01	8,065.00	7,807.24	116.35	33.67	92.05	1,222.28	2.24	5,156.55	5,078.72	77.83	66.258		
10,000.00	7,855.52	8,065.00	7,807.24	116.28	33.67	90.79	1,222.28	2.24	5,162.93	5,084.92	78.01	66.182		
10,050.00	7,863.72	8,108.22	7,826.65	116.18	33.58	90.10	1,183.77	4.74	5,166.18	5,088.28	77.91	66.312		
10,100.00	7,868.56	8,117.69	7,830.39	116.06	33.56	89.71	1,175.07	5.11	5,167.66	5,089.57	78.09	66.178		
10,145.94	7,870.00	8,154.00	7,842.94	115.92	33.50	89.81	1,141.02	5.92	5,167.33	5,089.28	78.05	66.207		
10,200.00	7,870.00	8,154.00	7,842.94	115.76	33.50	89.81	1,141.02	5.92	5,165.36	5,086.97	78.39	65.897		
10,300.00	7,870.00	8,154.00	7,842.94	115.46	33.50	89.81	1,141.02	5.92	5,163.19	5,084.16	79.04	65.325		
10,400.00	7,870.00	8,154.00	7,842.94	115.18	33.50	89.81	1,141.02	5.92	5,162.97	5,083.24	79.73	64.758		
10,401.00	7,870.00	8,183.60	7,850.96	115.18	33.43	89.90	1,112.54	5.96	5,162.68	5,083.23	79.45	64.979		
10,500.00	7,870.00	8,211.02	7,856.48	114.91	33.37	89.96	1,085.69	5.62	5,163.58	5,083.70	79.88	64.643		
10,600.00	7,870.00	8,243.00	7,860.57	114.65	33.30	90.01	1,053.99	4.75	5,165.89	5,085.62	80.27	64.354		
10,700.00	7,870.00	8,291.63	7,863.81	114.41	33.18	90.04	1,005.51	2.87	5,169.38	5,088.87	80.51	64.207		
10,800.00	7,870.00	8,836.00	7,855.48	114.17	33.61	89.95	461.74	0.61	5,171.44	5,093.43	78.01	66.293		
10,900.00	7,870.00	8,880.25	7,853.97	113.95	33.84	89.93	417.56	2.72	5,166.89	5,088.27	78.62	65.722		
11,000.00	7,870.00	8,925.00	7,852.52	113.75	34.10	89.92	372.85	3.48	5,164.29	5,085.04	79.25	65.164		
11,100.00	7,870.00	8,925.00	7,852.52	113.55	34.10	89.92	372.85	3.48	5,162.75	5,082.82	79.92	64.597		
11,129.74	7,870.00	8,925.00	7,852.52	113.49	34.10	89.92	372.85	3.48	5,162.66	5,082.53	80.14	64.424		
11,200.00	7,870.00	8,925.00	7,852.52	113.37	34.10	89.92	372.85	3.48	5,163.14	5,082.51	80.63	64.038		
11,300.00	7,870.00	8,979.76	7,850.97	113.20	34.43	89.90	318.11	2.82	5,164.43	5,083.08	81.35	63.487		
11,400.00	7,870.00	9,014.00	7,850.20	113.04	34.66	89.89	283.90	1.65	5,167.38	5,085.29	82.09	62.950		
11,500.00	7,870.00	9,070.99	7,849.02	112.89	35.04	89.88	226.99	-0.90	5,171.43	5,088.54	82.89	62.391		
11,600.00	7,870.00	9,190.61	7,846.42	112.76	35.94	89.85	107.52	-6.45	5,175.77	5,091.90	83.87	61.713		
11,700.00	7,870.00	9,331.72	7,843.34	112.64	37.16	89.82	-33.45	-11.86	5,179.26	5,094.10	85.15	60.822		
11,800.00	7,870.00	9,444.83	7,840.87	112.53	38.22	89.79	-146.47	-15.64	5,182.26	5,095.76	86.51	59.906		
11,900.00	7,870.00	10,296.15	7,820.55	112.44	48.62	89.56	-995.18	25.66	5,170.69	5,073.49	97.20	53.197		
12,000.00	7,870.00	10,350.00	7,819.01	112.36	49.38	89.54	-1,048.75	30.92	5,160.13	5,061.49	98.64	52.311		
12,100.00	7,870.00	10,350.00	7,819.01	112.29	49.38	89.54	-1,048.75	30.92	5,150.41	5,051.21	99.20	51.920		
12,200.00	7,870.00	10,350.00	7,819.01	112.24	49.38	89.54	-1,048.75	30.92	5,142.61	5,042.84	99.78	51.541		
12,300.00	7,870.00	10,396.62	7,817.68	112.20	50.03	89.53	-1,095.23	34.14	5,135.88	5,034.74	101.14	50.779		
12,400.00	7,870.00	10,707.00	7,809.35	112.17	54.53	89.43	-1,404.30	59.57	5,125.95	5,018.65	107.31	47.770		
12,500.00	7,870.00	10,779.15	7,807.31	112.16	55.61	89.41	-1,476.10	66.32	5,116.30	5,007.04	109.26	46.826		
12,600.00	7,870.00	10,796.00	7,806.82	112.17	55.86	89.40	-1,492.88	67.83	5,107.63	4,997.48	110.15	46.369		
12,700.00	7,870.00	10,837.93	7,805.63	112.19	56.49	89.39	-1,534.67	71.02	5,100.15	4,988.61	111.54	45.724		
12,800.00	7,870.00	10,885.00	7,804.30	112.23	57.19	89.37	-1,581.66	73.30	5,094.51	4,981.47	113.04	45.068		
12,900.00	7,870.00	10,885.00	7,804.30	112.28	57.19	89.37	-1,581.66	73.30	5,089.91	4,976.29	113.62	44.799		
13,000.00	7,870.00	10,914.97	7,803.46	112.36	57.63	89.36	-1,611.61	74.09	5,086.97	4,972.19	114.79	44.317		
13,100.00	7,870.00	10,943.91	7,802.64	112.45	58.05	89.35	-1,640.54	74.45	5,085.43	4,969.50	115.94	43.864		
13,172.94	7,870.00	10,974.00	7,801.78	112.52	58.50	89.34	-1,670.61	74.40	5,085.22	4,968.26	116.96	43.480		
13,200.00	7,870.00	10,974.00	7,801.78	112.56	58.50	89.34	-1,670.61	74.40	5,085.29	4,968.18	117.11	43.424		
13,300.00	7,870.00	10,974.00	7,801.78	112.68	58.50	89.34	-1,670.61	74.40	5,086.80	4,969.12	117.69	43.224		
13,400.00	7,870.00	11,021.22	7,800.44	112.83	59.18	89.33	-1,717.80	73.27	5,089.37	4,970.18	119.19	42.699		
13,500.00	7,870.00	11,063.00	7,799.28	113.00	59.78	89.32	-1,759.50	71.13	5,093.78	4,973.19	120.59	42.241		
13,600.00	7,870.00	11,063.00	7,799.28	113.19	59.78	89.32	-1,759.50	71.13	5,099.43	4,978.29	121.15	42.093		
13,700.00	7,870.00	11,095.29	7,798.43	113.40	60.24	89.31	-1,791.69	68.76	5,106.64	4,984.30	122.34	41.741		
13,800.00	7,870.00	11,954.00	7,801.57	113.63	73.32	89.34	-2,646.84	63.01	5,105.29	4,963.17	142.11	35.924		
13,900.00	7,870.00	12,043.42	7,802.36	113.89	74.78	89.35	-2,736.07	68.70	5,098.57	4,953.72	144.85	35.199		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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		
14,000.00	7,870.00	12,117.44	7,803.08	114.18	75.98	89.36	-2,809.96	73.17	5,092.19	4,944.96	147.22	34.589		
14,100.00	7,870.00	12,237.06	7,804.19	114.48	77.94	89.37	-2,929.36	80.26	5,085.93	4,935.18	150.74	33.739		
14,200.00	7,870.00	12,340.35	7,805.07	114.82	79.64	89.38	-3,032.44	86.71	5,079.34	4,925.45	153.89	33.007		
14,300.00	7,870.00	12,454.25	7,806.10	115.18	81.52	89.39	-3,146.12	93.85	5,072.74	4,915.42	157.33	32.244		
14,400.00	7,870.00	12,440.00	7,807.56	115.57	114.36	89.40	-3,411.85	114.76	5,065.10	4,871.92	193.18	26.220		
14,500.00	7,870.00	12,756.00	7,807.58	115.99	86.57	89.40	-3,446.85	118.21	5,055.36	4,889.14	166.22	30.415		
14,600.00	7,870.00	12,802.02	7,807.65	116.44	87.34	89.40	-3,492.67	122.44	5,046.47	4,878.51	167.96	30.046		
14,700.00	7,870.00	12,845.00	7,807.89	116.92	88.07	89.41	-3,535.58	124.97	5,039.65	4,870.03	169.62	29.712		
14,800.00	7,870.00	12,845.00	7,807.89	117.44	88.07	89.41	-3,535.58	124.97	5,033.93	4,863.81	170.12	29.590		
14,900.00	7,870.00	12,845.00	7,807.89	117.98	88.07	89.41	-3,535.58	124.97	5,030.20	4,859.61	170.59	29.487		
15,000.00	7,870.00	12,890.68	7,808.25	118.56	88.82	89.41	-3,581.24	126.26	5,027.57	4,855.30	172.27	29.185		
15,100.00	7,870.00	15,100.00	7,808.68	119.17	125.31	89.41	-3,630.99	126.23	5,026.84	4,816.85	209.99	23.939		
15,200.00	7,870.00	13,166.73	7,809.28	119.81	93.38	89.42	-3,857.22	130.63	5,024.09	4,843.43	180.66	27.810		
15,300.00	7,870.00	13,252.70	7,809.63	120.48	94.82	89.42	-3,943.16	132.84	5,021.16	4,837.70	183.46	27.369		
15,400.00	7,870.00	13,320.26	7,809.95	121.19	95.94	89.43	-4,010.69	134.49	5,018.45	4,832.69	185.76	27.015		
15,500.00	7,870.00	13,380.00	7,810.19	121.93	96.94	89.43	-4,070.43	135.20	5,016.79	4,828.95	187.84	26.708		
15,600.00	7,870.00	15,600.00	7,810.80	122.71	134.28	89.44	-4,227.15	137.62	5,014.99	4,787.43	227.56	22.038		
15,700.00	7,870.00	13,647.00	7,810.98	123.52	101.41	89.44	-4,337.36	140.56	5,011.95	4,815.78	196.17	25.549		
15,800.00	7,870.00	13,698.13	7,811.00	124.36	102.27	89.44	-4,388.48	141.60	5,009.61	4,811.59	198.03	25.298		
15,900.00	7,870.00	13,750.81	7,811.18	125.23	103.15	89.44	-4,441.16	142.08	5,008.32	4,808.41	199.91	25.053		
16,000.00	7,870.00	13,826.00	7,811.59	126.14	104.41	89.45	-4,516.35	142.28	5,007.71	4,805.27	202.44	24.737		
16,049.64	7,870.00	13,847.35	7,811.74	126.60	104.77	89.45	-4,537.70	142.23	5,007.67	4,804.44	203.23	24.640		
16,100.00	7,870.00	13,869.31	7,811.92	127.07	105.13	89.45	-4,559.66	142.05	5,007.91	4,803.87	204.04	24.544		
16,200.00	7,870.00	14,093.00	7,815.99	128.04	108.89	89.50	-4,783.28	142.86	5,006.89	4,795.97	210.92	23.738		
16,300.00	7,870.00	14,173.92	7,817.98	129.04	110.26	89.52	-4,864.17	143.75	5,005.42	4,791.76	213.66	23.427		
16,400.00	7,870.00	14,653.46	7,830.25	130.06	118.50	89.66	-5,342.73	167.05	4,999.81	4,771.91	227.90	21.938		
16,500.00	7,870.00	14,692.84	7,831.17	131.11	119.18	89.67	-5,381.97	170.18	4,991.51	4,761.95	229.56	21.744		
16,600.00	7,870.00	14,717.00	7,831.74	132.19	119.60	89.67	-5,406.07	171.87	4,984.48	4,753.73	230.76	21.601		
16,700.00	7,870.00	14,750.16	7,832.51	133.29	120.17	89.68	-5,439.17	173.71	4,978.84	4,746.67	232.18	21.444		
16,800.00	7,870.00	14,984.00	7,835.95	134.42	124.21	89.72	-5,672.65	184.86	4,975.17	4,735.77	239.39	20.782		
16,900.00	7,870.00	15,032.05	7,836.07	135.57	125.05	89.72	-5,720.58	188.29	4,967.93	4,726.66	241.27	20.591		
17,000.00	7,870.00	15,073.00	7,836.36	136.75	125.76	89.73	-5,761.47	190.47	4,962.13	4,719.21	242.93	20.427		
17,100.00	7,870.00	15,073.00	7,836.36	137.94	125.76	89.73	-5,761.47	190.47	4,957.83	4,714.50	243.33	20.375		
17,200.00	7,870.00	15,124.51	7,836.83	139.16	126.64	89.73	-5,812.95	192.13	4,954.63	4,709.40	245.23	20.204		
17,300.00	7,870.00	15,162.00	7,837.18	140.39	127.28	89.74	-5,850.44	192.53	4,953.05	4,706.36	246.68	20.078		
17,352.35	7,870.00	15,162.00	7,837.18	141.05	127.28	89.74	-5,850.44	192.53	4,952.77	4,705.95	246.83	20.066		
17,400.00	7,870.00	15,162.00	7,837.18	141.65	127.28	89.74	-5,850.44	192.53	4,953.00	4,706.07	246.94	20.058		
17,500.00	7,870.00	15,207.30	7,837.60	142.92	128.05	89.74	-5,895.73	192.02	4,954.18	4,705.63	248.55	19.932		
17,600.00	7,870.00	15,251.00	7,837.97	144.21	128.78	89.75	-5,939.40	190.43	4,957.11	4,707.02	250.09	19.821		
17,700.00	7,870.00	15,251.00	7,837.97	145.52	128.78	89.75	-5,939.40	190.43	4,961.32	4,711.14	250.18	19.831		
17,800.00	7,870.00	15,309.12	7,838.42	146.84	129.75	89.75	-5,997.43	187.15	4,966.76	4,714.64	252.12	19.700		
17,900.00	7,870.00	15,432.07	7,839.40	148.18	131.79	89.76	-6,120.10	179.02	4,973.14	4,716.96	256.19	19.412		
18,000.00	7,870.00	15,492.14	7,839.83	149.54	132.79	89.77	-6,180.04	175.19	4,979.16	4,720.97	258.18	19.285		
18,100.00	7,870.00	15,576.46	7,840.17	150.90	134.19	89.77	-6,264.16	169.30	4,985.79	4,724.81	260.98	19.104		
18,200.00	7,870.00	15,638.98	7,840.39	152.28	135.23	89.77	-6,326.51	164.79	4,992.74	4,729.70	263.04	18.981		
18,300.00	7,870.00	15,697.00	7,840.87	153.67	136.19	89.78	-6,384.32	159.87	5,000.76	4,735.82	264.93	18.875		
18,400.00	7,870.00	16,320.00	7,845.87	155.07	146.63	89.84	-7,002.09	138.16	5,004.33	4,719.24	285.09	17.553		
18,500.00	7,870.00	16,320.00	7,845.87	156.49	146.63	89.84	-7,002.09	138.16	5,003.25	4,717.87	285.38	17.532		
18,504.18	7,870.00	16,320.00	7,845.87	156.55	146.63	89.84	-7,002.09	138.16	5,003.25	4,717.85	285.39	17.531		
18,600.00	7,870.00	16,320.00	7,845.87	157.91	146.63	89.84	-7,002.09	138.16	5,004.16	4,718.58	285.58	17.523		
18,700.00	7,870.00	16,320.00	7,845.87	159.35	146.63	89.84	-7,002.09	138.16	5,007.08	4,721.39	285.69	17.526		
18,800.00	7,870.00	16,320.00	7,845.87	160.79	146.63	89.84	-7,002.09	138.16	5,011.98	4,726.28	285.70	17.543		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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	
18,900.00	7,870.00	16,365.47	7,845.68	162.25	147.39	89.84	-7,047.51	136.11	5,017.39	4,730.20	287.19	17.470	
19,000.00	7,870.00	16,409.00	7,845.52	163.71	148.11	89.83	-7,090.81	131.75	5,025.86	4,737.28	288.59	17.415	
19,100.00	7,870.00	16,409.00	7,845.52	165.18	148.11	89.83	-7,090.81	131.75	5,034.95	4,746.54	288.41	17.458	
19,200.00	7,870.00	16,409.00	7,845.52	166.66	148.11	89.83	-7,090.81	131.75	5,046.00	4,757.87	288.14	17.513	
19,300.00	7,870.00	16,538.19	7,845.24	168.15	150.23	89.83	-7,219.05	116.13	5,057.77	4,765.25	292.52	17.290	
19,400.00	7,870.00	16,624.61	7,844.27	169.65	151.65	89.82	-7,304.86	105.91	5,069.28	4,773.93	295.36	17.163	
19,500.00	7,870.00	16,737.30	7,841.60	171.15	153.50	89.79	-7,416.69	92.24	5,081.12	4,781.98	299.14	16.986	
19,600.00	7,870.00	16,860.06	7,837.84	172.66	155.52	89.75	-7,538.59	78.21	5,092.21	4,788.92	303.29	16.790	
19,700.00	7,870.00	16,936.71	7,834.88	174.18	156.79	89.72	-7,614.67	69.37	5,103.43	4,797.66	305.77	16.690	
19,800.00	7,870.00	17,065.06	7,829.21	175.70	158.91	89.65	-7,742.05	54.74	5,114.52	4,804.40	310.12	16.492	
19,889.26	7,870.00	17,156.62	7,824.63	177.06	160.43	89.60	-7,832.93	44.54	5,124.21	4,811.04	313.17	16.362 SF	

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-53.69	786.89	-1,070.98	1,329.01					
100.00	100.00	89.47	89.47	0.13	0.15	-53.70	786.84	-1,071.03	1,329.00	1,328.71	0.28	4,690.193	CC	
200.00	200.00	188.89	188.88	0.49	0.31	-53.71	786.66	-1,071.24	1,329.06	1,328.25	0.81	1,646.302		
300.00	300.00	288.30	288.30	0.85	0.48	-53.73	786.37	-1,071.58	1,329.16	1,327.83	1.33	998.441	ES	
400.00	399.98	385.88	385.88	1.21	0.77	-121.94	786.06	-1,072.05	1,330.28	1,328.31	1.98	673.174		
500.00	499.84	482.57	482.57	1.56	1.11	-122.08	786.05	-1,072.57	1,333.49	1,330.81	2.68	498.310		
600.00	599.45	578.09	578.09	1.93	1.45	-122.29	786.53	-1,073.04	1,338.84	1,335.46	3.38	396.665		
700.00	698.70	743.58	743.45	2.32	2.01	-122.73	788.94	-1,068.12	1,343.87	1,339.56	4.31	311.744		
800.00	797.47	857.69	857.03	2.72	2.42	-122.90	793.39	-1,058.20	1,347.51	1,342.40	5.10	264.088		
900.00	895.62	964.52	962.87	3.16	2.82	-122.99	800.96	-1,045.95	1,352.65	1,346.73	5.91	228.770		
1,000.00	993.06	1,078.09	1,074.69	3.63	3.28	-123.01	812.10	-1,029.54	1,358.78	1,351.98	6.80	199.798		
1,100.00	1,089.64	1,185.23	1,179.54	4.14	3.74	-123.00	824.76	-1,011.56	1,366.02	1,358.30	7.72	176.890		
1,200.00	1,185.27	1,277.46	1,269.60	4.70	4.16	-123.01	836.51	-995.51	1,375.18	1,366.54	8.64	159.245		
1,300.00	1,279.82	1,383.13	1,371.97	5.31	4.68	-122.99	852.84	-975.04	1,386.12	1,376.44	9.68	143.203		
1,400.00	1,373.17	1,467.14	1,452.90	5.97	5.11	-122.91	867.72	-958.12	1,399.55	1,388.87	10.68	131.018		
1,500.00	1,465.21	1,627.12	1,606.91	6.69	5.96	-123.16	894.71	-924.35	1,413.96	1,401.83	12.13	116.592		
1,600.00	1,555.84	1,702.46	1,679.50	7.47	6.37	-123.27	905.88	-907.57	1,427.98	1,414.80	13.18	108.322		
1,700.00	1,644.94	1,816.00	1,788.92	8.31	6.99	-123.62	923.59	-882.98	1,444.94	1,430.46	14.48	99.786		
1,800.00	1,732.39	1,929.66	1,898.09	9.23	7.63	-124.06	940.21	-856.09	1,461.62	1,445.79	15.83	92.349		
1,900.00	1,818.11	1,992.00	1,958.18	10.21	7.97	-124.20	949.42	-842.26	1,481.79	1,464.86	16.93	87.520		
2,000.00	1,901.97	2,101.13	2,063.53	11.26	8.58	-124.78	965.37	-818.71	1,504.61	1,486.30	18.31	82.167		
2,100.00	1,983.88	2,188.17	2,147.57	12.38	9.06	-125.21	978.16	-799.99	1,529.81	1,510.21	19.60	78.041		
2,200.00	2,063.74	2,293.71	2,249.27	13.57	9.65	-125.86	993.53	-776.33	1,556.53	1,535.51	21.03	74.031		
2,300.00	2,141.45	2,362.76	2,315.94	14.84	10.04	-126.14	1,003.46	-761.40	1,586.34	1,564.08	22.26	71.270		
2,327.78	2,162.65	2,379.19	2,331.85	15.21	10.13	-126.19	1,005.86	-758.02	1,595.33	1,572.74	22.58	70.637		
2,400.00	2,217.51	2,421.45	2,372.81	16.17	10.36	-126.71	1,012.12	-749.74	1,619.70	1,596.28	23.42	69.153		
2,500.00	2,293.49	2,478.00	2,427.77	17.51	10.66	-127.40	1,020.67	-739.54	1,655.35	1,630.81	24.54	67.454		
2,600.00	2,369.47	2,542.07	2,490.23	18.86	10.98	-128.17	1,030.43	-729.11	1,693.00	1,667.33	25.67	65.958		
2,700.00	2,445.45	2,700.00	2,680.21	20.22	11.79	-130.39	1,059.33	-695.12	1,731.24	1,703.86	27.39	63.214		
2,800.00	2,521.42	2,847.24	2,786.10	21.59	12.62	-131.50	1,074.81	-670.02	1,763.94	1,734.95	28.99	60.842		
2,900.00	2,597.40	2,965.96	2,900.34	22.97	13.31	-132.65	1,091.11	-642.11	1,796.48	1,766.04	30.44	59.022		
3,000.00	2,673.38	3,028.20	2,960.31	24.34	13.66	-133.25	1,099.26	-627.61	1,829.39	1,797.86	31.53	58.015		
3,100.00	2,749.36	3,112.92	3,042.13	25.73	14.14	-134.05	1,110.55	-608.76	1,863.67	1,830.94	32.73	56.933		
3,200.00	2,825.33	3,176.28	3,103.22	27.11	14.50	-134.61	1,119.74	-594.73	1,898.82	1,865.03	33.79	56.189		
3,300.00	2,901.31	3,247.81	3,172.53	28.50	14.90	-135.24	1,129.97	-580.28	1,935.80	1,900.93	34.87	55.507		
3,400.00	2,977.29	3,343.15	3,264.74	29.90	15.42	-136.05	1,143.87	-560.43	1,972.70	1,936.61	36.09	54.657		
3,500.00	3,053.27	3,412.08	3,331.67	31.29	15.80	-136.64	1,153.33	-546.93	2,010.75	1,973.64	37.11	54.180		
3,600.00	3,129.24	3,508.88	3,425.42	32.69	16.33	-137.40	1,167.59	-527.54	2,048.98	2,010.67	38.31	53.485		
3,700.00	3,205.22	3,576.00	3,490.52	34.08	16.69	-137.92	1,177.62	-514.63	2,088.21	2,048.92	39.30	53.140		
3,800.00	3,281.20	3,689.87	3,601.02	35.48	17.31	-138.78	1,193.85	-492.44	2,127.33	2,086.75	40.57	52.431		
3,900.00	3,357.18	3,759.95	3,668.96	36.88	17.69	-139.28	1,204.25	-478.75	2,166.81	2,125.26	41.55	52.144		
4,000.00	3,433.15	3,935.66	3,838.78	38.29	18.68	-140.47	1,229.89	-441.68	2,205.14	2,161.90	43.24	50.997		
4,100.00	3,509.13	4,053.37	3,952.09	39.69	19.36	-141.25	1,245.55	-413.91	2,241.11	2,196.60	44.51	50.350		
4,200.00	3,585.11	4,096.50	3,993.69	41.09	19.60	-141.53	1,251.23	-404.02	2,277.92	2,232.62	45.29	50.291		
4,300.00	3,661.08	4,141.00	4,036.84	42.50	19.85	-141.83	1,256.93	-394.77	2,316.77	2,270.72	46.05	50.308		
4,400.00	3,737.06	4,230.00	4,123.00	43.90	20.34	-142.37	1,269.52	-376.43	2,356.26	2,309.15	47.11	50.021		
4,500.00	3,813.04	4,284.46	4,175.68	45.31	20.64	-142.68	1,277.88	-365.44	2,396.70	2,348.78	47.91	50.021		
4,600.00	3,889.02	4,335.71	4,225.55	46.71	20.92	-142.99	1,285.45	-356.35	2,439.08	2,390.41	48.67	50.115		
4,700.00	3,964.99	4,504.64	4,389.39	48.12	21.83	-143.89	1,312.07	-325.01	2,481.57	2,431.25	50.32	49.320		
4,800.00	4,040.97	4,646.52	4,526.42	49.53	22.64	-144.63	1,332.76	-294.64	2,521.13	2,469.40	51.72	48.742		
4,900.00	4,116.95	4,741.36	4,617.72	50.94	23.19	-145.10	1,346.55	-272.96	2,559.43	2,506.63	52.80	48.471		
5,000.00	4,192.93	4,826.16	4,699.36	52.35	23.68	-145.51	1,359.06	-253.79	2,598.13	2,544.32	53.81	48.285		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,268.90	4,952.20	4,820.70	53.76	24.41	-146.10	1,377.09	-224.83	2,636.63	2,581.54	55.08	47.865		
5,200.00	4,344.88	5,021.78	4,887.60	55.16	24.82	-146.41	1,387.19	-208.59	2,674.87	2,618.89	55.97	47.787		
5,300.00	4,420.86	5,079.68	4,943.35	56.57	25.15	-146.67	1,395.75	-195.53	2,714.01	2,657.24	56.77	47.808		
5,400.00	4,496.84	5,137.54	4,999.26	57.98	25.48	-146.92	1,404.18	-183.24	2,754.41	2,696.86	57.54	47.866		
5,500.00	4,572.81	5,204.97	5,064.42	59.39	25.86	-147.20	1,414.70	-169.45	2,795.75	2,737.37	58.39	47.882		
5,600.00	4,648.79	5,314.51	5,170.40	60.81	26.47	-147.65	1,431.18	-147.20	2,837.28	2,777.74	59.54	47.653		
5,700.00	4,724.77	5,365.40	5,219.78	62.22	26.75	-147.87	1,438.31	-137.19	2,879.28	2,819.06	60.22	47.812		
5,800.00	4,800.74	5,428.85	5,281.46	63.63	27.09	-148.14	1,447.22	-125.27	2,922.26	2,861.28	60.98	47.918		
5,900.00	4,876.72	5,588.06	5,435.90	65.04	27.95	-148.76	1,470.86	-94.67	2,965.36	2,902.87	62.50	47.449		
6,000.00	4,952.70	5,677.16	5,522.08	66.45	28.45	-149.10	1,483.60	-76.02	3,006.64	2,943.18	63.46	47.376		
6,100.00	5,028.68	5,744.00	5,586.91	67.86	28.82	-149.36	1,492.58	-62.46	3,048.52	2,984.27	64.24	47.453		
6,200.00	5,104.65	5,812.33	5,653.31	69.27	29.18	-149.62	1,501.57	-49.09	3,091.11	3,026.09	65.02	47.541		
6,300.00	5,180.63	5,966.10	5,802.45	70.69	30.02	-150.20	1,522.05	-17.74	3,133.06	3,066.63	66.43	47.165		
6,400.00	5,256.61	6,063.22	5,896.49	72.10	30.57	-150.55	1,534.58	3.08	3,174.14	3,106.73	67.41	47.084		
6,500.00	5,332.59	6,137.86	5,968.66	73.51	30.98	-150.81	1,544.69	19.15	3,215.29	3,147.04	68.24	47.115		
6,600.00	5,408.56	6,201.30	6,030.25	74.92	31.33	-151.04	1,552.53	32.23	3,257.25	3,188.28	68.97	47.227		
6,700.00	5,484.54	6,279.00	6,105.65	76.34	31.75	-151.31	1,562.63	47.99	3,299.65	3,229.85	69.80	47.273		
6,800.00	5,560.52	6,347.93	6,172.51	77.75	32.13	-151.53	1,572.31	61.69	3,342.56	3,271.98	70.58	47.361		
6,900.00	5,636.50	6,497.26	6,317.04	79.16	32.96	-151.97	1,594.34	92.06	3,385.11	3,313.11	72.00	47.015		
7,000.00	5,712.47	6,568.25	6,385.59	80.57	33.36	-152.16	1,605.10	107.09	3,427.00	3,354.19	72.81	47.065		
7,100.00	5,788.45	6,613.36	6,429.34	81.99	33.60	-152.30	1,611.33	116.12	3,469.93	3,396.53	73.40	47.276		
7,200.00	5,864.43	7,226.62	7,013.44	83.40	36.97	-154.59	1,656.37	271.55	3,511.53	3,434.68	76.86	45.690		
7,300.00	5,940.40	7,260.00	7,043.69	84.81	37.09	-154.91	1,645.83	280.92	3,542.97	3,465.80	77.17	45.914		
7,400.00	6,016.38	7,260.00	7,043.69	86.23	37.09	-154.91	1,645.83	280.92	3,576.28	3,498.69	77.58	46.097		
7,500.00	6,092.36	7,260.00	7,043.69	87.64	37.09	-154.91	1,645.83	280.92	3,612.05	3,534.11	77.94	46.342		
7,600.00	6,168.34	7,260.00	7,043.69	89.05	37.09	-154.91	1,645.83	280.92	3,650.21	3,571.96	78.25	46.647		
7,700.00	6,244.31	7,307.88	7,086.98	90.47	37.17	-155.40	1,628.77	292.17	3,689.11	3,610.80	78.31	47.110		
7,800.00	6,320.29	7,349.00	7,124.14	91.88	37.24	-155.84	1,612.87	299.71	3,731.27	3,652.91	78.36	47.619		
7,900.00	6,396.27	7,349.00	7,124.14	93.30	37.24	-155.84	1,612.87	299.71	3,774.47	3,695.91	78.56	48.047		
8,000.00	6,472.25	7,349.00	7,124.14	94.71	37.24	-155.84	1,612.87	299.71	3,819.80	3,741.08	78.72	48.526		
8,100.00	6,548.22	7,349.00	7,124.14	96.12	37.24	-155.84	1,612.87	299.71	3,867.18	3,788.35	78.84	49.053		
8,200.00	6,624.20	7,391.12	7,161.88	97.54	37.27	-156.30	1,595.23	305.91	3,915.83	3,837.08	78.75	49.723		
8,300.00	6,700.18	7,438.00	7,203.18	98.95	37.30	-156.83	1,573.79	311.59	3,966.53	3,887.92	78.61	50.456		
8,400.00	6,776.16	7,438.00	7,203.18	100.37	37.30	-156.83	1,573.79	311.59	4,018.22	3,939.56	78.66	51.085		
8,500.00	6,852.13	7,477.75	7,237.52	101.78	37.31	-157.30	1,554.24	315.87	4,071.53	3,993.04	78.49	51.871		
8,600.00	6,928.11	7,635.96	7,365.56	103.20	37.29	-159.28	1,463.57	334.56	4,125.34	4,047.72	77.61	53.153		
8,700.00	7,004.09	7,680.72	7,398.18	104.61	37.27	-159.89	1,433.51	340.41	4,179.33	4,102.01	77.32	54.055		
8,800.00	7,080.06	7,705.00	7,415.06	106.02	37.26	-160.23	1,416.34	343.56	4,234.58	4,157.44	77.14	54.895		
8,900.00	7,156.04	7,736.98	7,436.33	107.44	37.22	-160.69	1,392.82	347.62	4,291.16	4,214.28	76.88	55.813		
9,000.00	7,232.02	7,756.91	7,449.01	108.85	37.20	-160.97	1,377.63	350.06	4,349.14	4,272.44	76.70	56.704		
9,104.68	7,311.55	7,775.24	7,460.25	110.33	37.19	-161.24	1,363.33	352.26	4,411.27	4,334.77	76.51	57.659		
9,150.00	7,346.29	7,794.00	7,471.35	110.97	37.17	-170.18	1,348.36	354.44	4,438.66	4,362.33	76.34	58.145		
9,200.00	7,385.15	7,794.00	7,471.35	111.65	37.17	179.91	1,348.36	354.44	4,469.01	4,392.70	76.31	58.564		
9,250.00	7,424.29	7,794.00	7,471.35	112.31	37.17	169.85	1,348.36	354.44	4,499.35	4,423.07	76.28	58.983		
9,300.00	7,463.40	7,794.00	7,471.35	112.93	37.17	159.90	1,348.36	354.44	4,529.47	4,453.21	76.25	59.400		
9,350.00	7,502.19	7,794.00	7,471.35	113.51	37.17	150.28	1,348.36	354.44	4,559.13	4,482.91	76.22	59.812		
9,400.00	7,540.36	7,794.00	7,471.35	114.04	37.17	141.22	1,348.36	354.44	4,588.13	4,511.93	76.20	60.215		
9,450.00	7,577.62	7,794.00	7,471.35	114.53	37.17	132.85	1,348.36	354.44	4,616.25	4,540.08	76.17	60.605		
9,500.00	7,613.70	7,794.00	7,471.35	114.95	37.17	125.25	1,348.36	354.44	4,643.31	4,567.16	76.15	60.976		
9,550.00	7,648.30	7,794.00	7,471.35	115.32	37.17	118.45	1,348.36	354.44	4,669.11	4,592.97	76.14	61.323		
9,600.00	7,681.18	7,834.22	7,493.45	115.63	37.10	112.33	1,314.98	358.16	4,692.28	4,616.45	75.83	61.881		
9,650.00	7,712.08	7,840.45	7,496.65	115.88	37.08	107.09	1,309.65	358.57	4,714.66	4,638.87	75.79	62.205		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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		
9,700.00	7,740.76	7,883.00	7,516.80	116.08	37.01	102.50	1,272.23	360.25	4,736.21	4,660.75	75.46	62.764		
9,750.00	7,767.01	7,883.00	7,516.80	116.23	37.01	98.66	1,272.23	360.25	4,754.51	4,679.00	75.52	62.960		
9,800.00	7,790.63	7,883.00	7,516.80	116.33	37.01	95.41	1,272.23	360.25	4,770.81	4,695.21	75.60	63.105		
9,850.00	7,811.44	7,883.00	7,516.80	116.38	37.01	92.70	1,272.23	360.25	4,784.99	4,709.27	75.72	63.194		
9,900.00	7,829.28	7,883.00	7,516.80	116.38	37.01	90.48	1,272.23	360.25	4,796.97	4,721.10	75.87	63.223		
9,950.00	7,844.01	7,883.00	7,516.80	116.35	37.01	88.73	1,272.23	360.25	4,806.68	4,730.61	76.07	63.189		
10,000.00	7,855.52	7,918.04	7,531.65	116.28	36.93	87.52	1,240.50	360.86	4,813.95	4,737.98	75.97	63.364		
10,050.00	7,863.72	7,980.30	7,555.58	116.18	36.80	86.84	1,183.05	362.29	4,818.29	4,742.64	75.64	63.697		
10,100.00	7,868.56	7,973.00	7,552.94	116.06	36.81	86.39	1,189.85	362.10	4,819.99	4,743.96	76.02	63.400		
10,145.94	7,870.00	7,973.00	7,552.94	115.92	36.81	86.34	1,189.85	362.10	4,819.43	4,743.07	76.35	63.122		
10,200.00	7,870.00	8,014.98	7,567.82	115.76	36.71	86.52	1,150.60	362.75	4,817.23	4,740.87	76.36	63.086		
10,300.00	7,870.00	8,062.00	7,583.41	115.46	36.61	86.71	1,106.24	362.47	4,815.02	4,738.34	76.68	62.796		
10,400.00	7,870.00	8,088.11	7,591.63	115.18	36.55	86.80	1,081.46	362.03	4,814.02	4,736.78	77.24	62.327		
10,500.00	7,870.00	8,173.84	7,616.64	114.91	36.37	87.10	999.49	360.70	4,813.70	4,736.42	77.28	62.291		
10,504.68	7,870.00	8,176.72	7,617.38	114.90	36.36	87.11	996.70	360.65	4,813.70	4,736.40	77.29	62.279		
10,600.00	7,870.00	8,240.00	7,630.85	114.65	36.25	87.27	934.90	359.53	4,814.07	4,736.56	77.51	62.110		
10,700.00	7,870.00	8,327.94	7,642.13	114.41	36.10	87.41	847.73	357.94	4,814.95	4,737.38	77.57	62.070		
10,800.00	7,870.00	8,399.52	7,648.30	114.17	36.01	87.48	776.43	356.52	4,816.21	4,738.36	77.85	61.868		
10,900.00	7,870.00	8,680.42	7,660.15	113.95	36.08	87.62	495.98	356.85	4,815.00	4,737.75	77.25	62.329		
11,000.00	7,870.00	8,773.83	7,660.40	113.75	36.30	87.62	402.57	358.51	4,812.88	4,735.06	77.82	61.846		
11,100.00	7,870.00	8,885.57	7,660.58	113.55	36.72	87.62	290.85	360.53	4,810.74	4,732.20	78.54	61.251		
11,200.00	7,870.00	8,989.75	7,660.38	113.37	37.27	87.62	186.70	362.78	4,808.25	4,728.83	79.42	60.540		
11,300.00	7,870.00	9,088.66	7,660.35	113.20	37.93	87.62	87.80	364.63	4,806.04	4,725.61	80.44	59.749		
11,400.00	7,870.00	9,191.74	7,660.18	113.04	38.73	87.62	-15.24	366.89	4,803.52	4,721.91	81.60	58.864		
11,500.00	7,870.00	9,287.29	7,660.12	112.89	39.56	87.61	-110.78	368.82	4,801.17	4,718.31	82.86	57.944		
11,600.00	7,870.00	9,425.06	7,660.03	112.76	40.90	87.61	-248.51	372.13	4,798.43	4,713.85	84.58	56.734		
11,700.00	7,870.00	9,487.00	7,659.13	112.64	41.55	87.60	-310.41	373.91	4,795.44	4,709.67	85.77	55.911		
11,800.00	7,870.00	9,549.21	7,657.64	112.53	42.22	87.58	-372.59	375.23	4,793.25	4,706.24	87.01	55.088		
11,900.00	7,870.00	9,603.30	7,656.39	112.44	42.81	87.56	-426.67	375.62	4,792.24	4,704.04	88.21	54.330		
12,000.00	7,870.00	9,678.89	7,657.17	112.36	43.65	87.57	-502.24	375.52	4,791.98	4,702.30	89.68	53.434		
12,100.00	7,870.00	9,788.64	7,660.09	112.29	44.92	87.61	-611.95	375.36	4,791.66	4,700.02	91.64	52.287		
12,200.00	7,870.00	9,917.81	7,663.03	112.24	46.48	87.64	-741.09	375.20	4,791.44	4,697.46	93.97	50.987		
12,300.00	7,870.00	10,136.36	7,668.46	112.20	49.29	87.71	-959.54	379.09	4,789.11	4,691.23	97.88	48.929		
12,400.00	7,870.00	10,199.00	7,669.78	112.17	50.13	87.72	-1,022.13	381.17	4,785.67	4,686.18	99.48	48.105		
12,500.00	7,870.00	10,241.10	7,670.31	112.16	50.69	87.73	-1,064.21	382.16	4,783.37	4,682.60	100.77	47.470		
12,600.00	7,870.00	10,288.00	7,670.22	112.17	51.32	87.73	-1,111.11	381.93	4,783.01	4,680.88	102.13	46.832		
12,611.73	7,870.00	10,288.00	7,670.22	112.17	51.32	87.73	-1,111.11	381.93	4,782.99	4,680.79	102.20	46.799		
12,700.00	7,870.00	10,327.34	7,669.81	112.19	51.85	87.72	-1,150.43	381.29	4,783.77	4,680.39	103.38	46.273		
12,800.00	7,870.00	12,800.00	7,665.70	112.23	87.55	87.67	-1,358.06	381.48	4,783.16	4,642.70	140.46	34.053		
12,900.00	7,870.00	10,634.79	7,662.93	112.28	56.13	87.64	-1,457.80	382.77	4,781.65	4,671.59	110.07	43.444		
13,000.00	7,870.00	10,734.00	7,659.75	112.36	57.56	87.60	-1,556.94	384.32	4,779.90	4,667.36	112.54	42.473		
13,100.00	7,870.00	10,786.73	7,657.94	112.45	58.33	87.58	-1,609.64	384.94	4,778.83	4,664.71	114.12	41.876		
13,116.23	7,870.00	10,792.03	7,657.75	112.46	58.41	87.57	-1,614.93	384.93	4,778.81	4,664.50	114.31	41.805		
13,200.00	7,870.00	10,823.00	7,656.65	112.56	58.86	87.56	-1,645.88	384.67	4,779.31	4,663.94	115.37	41.426		
13,300.00	7,870.00	11,019.24	7,649.19	112.68	61.74	87.47	-1,841.97	384.41	4,779.15	4,659.19	119.96	39.839		
13,354.48	7,870.00	11,030.47	7,648.68	112.76	61.91	87.47	-1,853.19	384.35	4,778.99	4,658.51	120.48	39.667		
13,400.00	7,870.00	11,050.52	7,647.75	112.83	62.20	87.45	-1,873.22	384.27	4,779.11	4,657.98	121.13	39.455		
13,500.00	7,870.00	11,110.20	7,644.66	113.00	63.09	87.42	-1,932.81	383.50	4,780.21	4,657.31	122.90	38.895		
13,600.00	7,870.00	13,600.00	7,635.50	113.19	101.41	87.31	-2,090.67	382.53	4,780.62	4,617.58	163.04	29.323		
13,700.00	7,870.00	11,334.26	7,631.36	113.40	66.47	87.26	-2,156.47	382.33	4,780.97	4,652.16	128.82	37.115		
13,800.00	7,870.00	11,438.89	7,624.74	113.63	68.07	87.18	-2,260.88	381.18	4,782.06	4,650.39	131.67	36.319		
13,900.00	7,870.00	11,500.54	7,620.63	113.89	69.01	87.13	-2,322.39	380.50	4,783.20	4,649.65	133.55	35.817		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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		
14,000.00	7,870.00	11,562.43	7,616.30	114.18	69.96	87.08	-2,384.12	379.24	4,785.23	4,649.80	135.43	35.333		
14,100.00	7,870.00	11,657.97	7,611.64	114.48	71.43	87.03	-2,479.50	376.60	4,787.90	4,649.75	138.14	34.659		
14,200.00	7,870.00	11,854.31	7,602.54	114.82	74.48	86.92	-2,675.61	373.76	4,789.13	4,645.75	143.38	33.401		
14,300.00	7,870.00	11,981.00	7,596.67	115.18	76.49	86.85	-2,802.16	373.81	4,788.92	4,641.94	146.98	32.583		
14,331.77	7,870.00	12,006.45	7,595.51	115.30	76.89	86.83	-2,827.58	373.89	4,788.82	4,641.06	147.75	32.411		
14,400.00	7,870.00	12,031.19	7,594.28	115.57	77.28	86.82	-2,852.30	373.75	4,789.17	4,640.52	148.65	32.218		
14,500.00	7,870.00	12,071.00	7,592.11	115.99	77.91	86.79	-2,892.04	373.06	4,790.81	4,640.76	150.05	31.928		
14,600.00	7,870.00	12,223.93	7,582.60	116.44	80.34	86.68	-3,044.66	370.70	4,792.31	4,637.94	154.37	31.045		
14,700.00	7,870.00	12,330.64	7,576.86	116.92	82.05	86.61	-3,151.20	369.55	4,793.36	4,635.83	157.53	30.427		
14,800.00	7,870.00	12,511.78	7,573.74	117.44	84.97	86.58	-3,332.30	368.92	4,793.46	4,630.68	162.77	29.448		
14,900.00	7,870.00	12,645.12	7,572.06	117.98	87.14	86.56	-3,465.62	369.98	4,792.40	4,625.62	166.78	28.735		
15,000.00	7,870.00	12,720.20	7,571.10	118.56	88.37	86.54	-3,540.69	370.86	4,791.04	4,621.83	169.21	28.315		
15,071.71	7,870.00	12,749.89	7,570.67	118.99	88.85	86.54	-3,570.38	370.92	4,790.73	4,620.45	170.28	28.135		
15,100.00	7,870.00	12,783.00	7,570.12	119.17	89.39	86.53	-3,603.48	370.68	4,790.89	4,619.60	171.29	27.969		
15,104.81	7,870.00	12,783.00	7,570.12	119.20	89.39	86.53	-3,603.48	370.68	4,790.89	4,619.58	171.31	27.966		
15,200.00	7,870.00	12,818.79	7,569.62	119.81	89.97	86.53	-3,639.27	370.19	4,791.65	4,619.04	172.62	27.759		
15,300.00	7,870.00	12,909.10	7,569.45	120.48	91.44	86.52	-3,729.57	368.57	4,793.12	4,617.64	175.48	27.315		
15,400.00	7,870.00	13,039.37	7,569.40	121.19	93.57	86.52	-3,859.82	366.67	4,794.24	4,614.74	179.49	26.710		
15,500.00	7,870.00	13,217.22	7,569.46	121.93	96.50	86.53	-4,037.67	366.37	4,793.93	4,609.03	184.91	25.926		
15,596.89	7,870.00	13,275.12	7,570.36	122.69	97.46	86.54	-4,095.56	366.42	4,793.48	4,606.59	186.89	25.649		
15,600.00	7,870.00	13,276.76	7,570.40	122.71	97.48	86.54	-4,097.19	366.41	4,793.48	4,606.53	186.95	25.641		
15,700.00	7,870.00	13,355.53	7,573.11	123.52	98.79	86.57	-4,175.91	365.57	4,793.94	4,604.39	189.55	25.291		
15,800.00	7,870.00	13,500.00	7,579.13	124.36	139.69	86.64	-4,323.31	365.09	4,793.59	4,560.66	232.92	20.580		
15,866.62	7,870.00	13,525.38	7,579.99	124.94	101.61	86.65	-4,345.63	365.02	4,793.50	4,598.44	195.07	24.574		
15,900.00	7,870.00	13,535.23	7,580.32	125.23	101.77	86.66	-4,355.46	364.91	4,793.72	4,598.27	195.45	24.527		
16,000.00	7,870.00	13,585.00	7,581.56	126.14	102.59	86.67	-4,405.20	363.60	4,795.50	4,598.32	197.19	24.320		
16,100.00	7,870.00	13,618.80	7,582.14	127.07	103.15	86.68	-4,438.97	362.32	4,798.39	4,599.96	198.42	24.183		
16,200.00	7,870.00	13,756.20	7,584.17	128.04	105.41	86.71	-4,576.27	357.54	4,801.48	4,598.68	202.79	23.677		
16,300.00	7,870.00	13,930.93	7,583.75	129.04	108.32	86.70	-4,750.95	353.50	4,803.63	4,595.33	208.30	23.061		
16,385.39	7,870.00	14,055.19	7,580.89	129.91	110.40	86.67	-4,875.17	353.11	4,803.53	4,591.29	212.24	22.632		
16,400.00	7,870.00	14,060.74	7,580.75	130.06	110.49	86.67	-4,880.72	353.09	4,803.57	4,591.13	212.44	22.611		
16,500.00	7,870.00	14,120.00	7,579.40	131.11	111.48	86.65	-4,939.96	352.15	4,804.72	4,590.25	214.47	22.403		
16,600.00	7,870.00	14,222.24	7,577.34	132.19	113.19	86.63	-5,042.15	350.28	4,806.33	4,588.54	217.80	22.068		
16,700.00	7,870.00	14,282.57	7,576.97	133.29	114.20	86.62	-5,102.47	349.14	4,807.92	4,588.07	219.85	21.869		
16,800.00	7,870.00	16,800.00	7,577.65	134.42	156.58	86.63	-5,209.84	346.71	4,809.80	4,545.57	264.23	18.203		
16,900.00	7,870.00	14,443.91	7,578.04	135.57	116.91	86.64	-5,263.77	345.34	4,812.03	4,586.80	225.23	21.365		
17,000.00	7,870.00	14,552.93	7,579.72	136.75	118.73	86.66	-5,372.70	341.49	4,815.18	4,586.36	228.82	21.043		
17,100.00	7,870.00	14,778.53	7,579.40	137.94	122.53	86.66	-5,598.25	337.87	4,816.40	4,580.35	236.05	20.404		
17,200.00	7,870.00	15,064.34	7,579.42	139.16	127.42	86.66	-5,883.99	342.63	4,814.26	4,569.20	245.07	19.645		
17,300.00	7,870.00	15,158.65	7,579.96	140.39	129.04	86.66	-5,978.25	345.85	4,810.49	4,562.23	248.26	19.377		
17,400.00	7,870.00	15,291.81	7,580.34	141.65	131.34	86.66	-6,111.31	350.64	4,806.60	4,553.97	252.63	19.026		
17,500.00	7,870.00	15,370.94	7,580.50	142.92	132.70	86.66	-6,190.39	353.74	4,802.34	4,546.97	255.38	18.805		
17,600.00	7,870.00	15,480.35	7,580.51	144.21	134.59	86.66	-6,299.72	357.77	4,798.34	4,539.30	259.04	18.524		
17,700.00	7,870.00	15,564.25	7,580.37	145.52	136.04	86.65	-6,383.56	360.87	4,794.32	4,532.39	261.93	18.304		
17,800.00	7,870.00	15,657.53	7,580.23	146.84	137.66	86.65	-6,476.78	364.27	4,790.37	4,525.27	265.11	18.069		
17,900.00	7,870.00	15,736.00	7,581.84	148.18	139.01	86.67	-6,555.20	366.55	4,786.99	4,519.14	267.85	17.872		
18,000.00	7,870.00	15,764.40	7,582.90	149.54	139.50	86.68	-6,583.57	367.07	4,784.51	4,515.49	269.02	17.785		
18,100.00	7,870.00	15,797.10	7,584.43	150.90	140.06	86.70	-6,616.24	367.22	4,783.43	4,513.16	270.28	17.698		
18,145.42	7,870.00	15,825.00	7,586.00	151.53	140.54	86.72	-6,644.09	366.97	4,783.47	4,512.20	271.26	17.634		
18,200.00	7,870.00	15,825.00	7,586.00	152.28	140.54	86.72	-6,644.09	366.97	4,783.78	4,512.44	271.34	17.630		
18,300.00	7,870.00	15,870.00	7,588.80	153.67	141.31	86.75	-6,689.00	366.05	4,785.34	4,512.41	272.93	17.533		
18,400.00	7,870.00	15,927.35	7,591.92	155.07	142.28	86.79	-6,746.23	364.23	4,787.96	4,513.06	274.90	17.417		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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	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)						
18,500.00	7,870.00	15,995.94	7,594.49	156.49	143.44	86.82	-6,814.71	361.30	4,791.61	4,514.38	277.23	17.284					
18,600.00	7,870.00	16,084.16	7,597.37	157.91	144.94	86.86	-6,902.80	357.45	4,795.47	4,515.25	280.22	17.113					
18,700.00	7,870.00	16,161.18	7,599.51	159.35	146.24	86.89	-6,979.69	353.68	4,799.85	4,517.03	282.82	16.971					
18,800.00	7,870.00	16,277.35	7,602.48	160.79	148.20	86.92	-7,095.69	347.91	4,804.36	4,517.59	286.77	16.753					
18,900.00	7,870.00	16,389.17	7,605.12	162.25	150.10	86.96	-7,207.36	342.90	4,808.36	4,517.79	290.57	16.548					
19,000.00	7,870.00	16,480.87	7,606.88	163.71	151.66	86.98	-7,298.95	338.79	4,812.41	4,518.73	293.68	16.386					
19,100.00	7,870.00	16,585.36	7,608.04	165.18	153.43	87.00	-7,403.33	334.06	4,816.53	4,519.30	297.23	16.205					
19,200.00	7,870.00	16,669.53	7,608.37	166.66	154.86	87.01	-7,487.41	330.20	4,820.76	4,520.68	300.07	16.065					
19,300.00	7,870.00	16,768.50	7,608.07	168.15	156.54	87.00	-7,586.26	325.52	4,825.16	4,521.74	303.42	15.902					
19,400.00	7,870.00	17,223.10	7,636.08	169.65	164.37	87.34	-8,039.77	321.07	4,824.10	4,505.38	318.72	15.136					
19,500.00	7,870.00	17,396.28	7,643.99	171.15	167.39	87.43	-8,212.69	326.07	4,820.86	4,496.38	324.48	14.857					
19,600.00	7,870.00	17,480.70	7,647.17	172.66	168.87	87.47	-8,297.00	329.09	4,816.75	4,489.28	327.47	14.709					
19,700.00	7,870.00	17,583.00	7,650.55	174.18	170.66	87.50	-8,399.16	333.09	4,812.35	4,481.34	331.01	14.538					
19,800.00	7,870.00	17,583.00	7,650.55	175.70	170.66	87.50	-8,399.16	333.09	4,809.22	4,477.90	331.32	14.515					
19,889.26	7,870.00	17,583.00	7,650.55	177.06	170.66	87.50	-8,399.16	333.09	4,808.18	4,476.68	331.50	14.504 SF					

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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	-53.44	786.89	-1,061.18	1,321.13					
100.00	100.00	90.80	90.80	0.13	0.15	-53.44	786.93	-1,061.11	1,321.07	1,320.78	0.29	4,628.974		
200.00	200.00	191.69	191.69	0.49	0.32	-53.43	787.08	-1,060.88	1,320.97	1,320.16	0.81	1,627.640		
300.00	300.00	292.58	292.58	0.85	0.49	-53.41	787.33	-1,060.49	1,320.81	1,319.47	1.34	987.313		
311.12	311.12	303.80	303.80	0.89	0.51	-121.55	787.37	-1,060.43	1,320.80	1,319.40	1.40	946.259 CC, ES		
400.00	399.98	392.27	392.27	1.21	0.79	-121.59	787.48	-1,060.13	1,321.53	1,319.54	1.99	663.719		
500.00	499.84	491.39	491.38	1.56	1.13	-121.76	787.02	-1,060.30	1,324.13	1,321.44	2.69	492.248		
600.00	599.45	593.10	593.09	1.93	1.48	-122.07	785.89	-1,061.01	1,328.66	1,325.26	3.41	390.001		
700.00	698.70	737.73	737.63	2.32	1.99	-122.54	785.76	-1,057.03	1,332.77	1,328.48	4.29	310.761		
800.00	797.47	877.78	877.08	2.72	2.51	-122.83	790.04	-1,045.02	1,336.04	1,330.85	5.18	257.811		
900.00	895.62	989.05	987.03	3.16	2.94	-122.90	797.56	-1,029.89	1,339.22	1,333.20	6.01	222.662		
1,000.00	993.06	1,095.43	1,090.99	3.63	3.39	-122.79	809.93	-1,011.10	1,343.72	1,336.83	6.89	194.916		
1,100.00	1,089.64	1,199.13	1,190.97	4.14	3.87	-122.53	826.51	-989.14	1,349.70	1,341.86	7.84	172.137		
1,200.00	1,185.27	1,278.00	1,266.80	4.70	4.27	-122.32	840.21	-972.37	1,358.26	1,349.53	8.73	155.507		
1,300.00	1,279.82	1,439.64	1,421.80	5.31	5.13	-122.23	867.02	-935.30	1,366.71	1,356.60	10.11	135.223		
1,400.00	1,373.17	1,534.78	1,511.98	5.97	5.69	-122.10	884.14	-910.22	1,375.14	1,363.91	11.23	122.440		
1,500.00	1,465.21	1,605.14	1,578.50	6.69	6.11	-121.97	897.95	-891.98	1,386.72	1,374.44	12.28	112.971		
1,600.00	1,555.84	1,688.75	1,657.63	7.47	6.62	-121.88	915.57	-871.51	1,402.05	1,388.62	13.44	104.328		
1,700.00	1,644.94	1,808.15	1,771.38	8.31	7.33	-122.08	938.49	-843.39	1,419.09	1,404.24	14.85	95.563		
1,800.00	1,732.39	1,970.75	1,926.84	9.23	8.30	-122.82	963.08	-802.63	1,434.40	1,417.88	16.51	86.875		
1,900.00	1,818.11	2,061.12	2,013.60	10.21	8.82	-123.30	973.72	-779.75	1,449.95	1,432.16	17.79	81.522		
2,000.00	1,901.97	2,137.39	2,086.98	11.26	9.26	-123.70	983.09	-761.16	1,468.76	1,449.74	19.01	77.247		
2,100.00	1,983.88	2,270.59	2,214.99	12.38	10.04	-124.70	999.66	-728.28	1,489.84	1,469.27	20.57	72.435		
2,200.00	2,063.74	2,345.75	2,287.15	13.57	10.48	-125.16	1,008.32	-709.17	1,512.12	1,490.28	21.84	69.231		
2,300.00	2,141.45	2,403.94	2,343.23	14.84	10.81	-125.42	1,015.35	-695.31	1,538.46	1,515.43	23.03	66.808		
2,327.78	2,162.65	2,419.66	2,358.41	15.21	10.90	-125.49	1,017.33	-691.77	1,546.59	1,523.24	23.36	66.220		
2,400.00	2,217.51	2,464.04	2,401.35	16.17	11.15	-126.06	1,023.16	-682.18	1,568.81	1,544.60	24.21	64.787		
2,500.00	2,293.49	2,528.21	2,464.46	17.51	11.50	-126.85	1,032.33	-668.89	1,601.35	1,575.95	25.40	63.046		
2,600.00	2,369.47	2,594.00	2,527.25	18.86	11.86	-127.64	1,042.25	-656.24	1,635.91	1,609.34	26.57	61.574		
2,700.00	2,445.45	2,790.02	2,715.42	20.22	13.01	-129.69	1,073.97	-611.62	1,668.38	1,639.79	28.59	58.345		
2,800.00	2,521.42	2,833.90	2,757.48	21.59	13.27	-130.13	1,081.01	-601.27	1,700.28	1,670.64	29.64	57.356		
2,900.00	2,597.40	2,967.44	2,886.07	22.97	14.05	-131.50	1,099.93	-570.68	1,733.14	1,701.94	31.20	55.556		
3,000.00	2,673.38	3,062.49	2,977.56	24.34	14.61	-132.47	1,111.48	-547.64	1,764.36	1,731.88	32.48	54.323		
3,100.00	2,749.36	3,128.00	3,040.36	25.73	15.00	-133.09	1,120.60	-531.40	1,796.27	1,762.68	33.59	53.478		
3,200.00	2,825.33	3,194.32	3,104.01	27.11	15.39	-133.68	1,130.50	-515.66	1,829.78	1,795.10	34.68	52.756		
3,300.00	2,901.31	3,280.95	3,187.58	28.50	15.89	-134.46	1,143.28	-496.75	1,865.08	1,829.20	35.88	51.982		
3,400.00	2,977.29	3,419.65	3,321.02	29.90	16.70	-135.67	1,162.13	-464.00	1,898.61	1,861.24	37.37	50.802		
3,500.00	3,053.27	3,470.44	3,370.17	31.29	16.99	-136.14	1,167.82	-452.52	1,932.95	1,894.67	38.28	50.498		
3,600.00	3,129.24	3,542.85	3,440.49	32.69	17.38	-136.80	1,176.10	-437.36	1,969.12	1,929.84	39.28	50.131		
3,700.00	3,205.22	3,645.21	3,539.32	34.08	17.97	-137.62	1,190.72	-415.13	2,005.75	1,965.25	40.50	49.523		
3,800.00	3,281.20	3,752.77	3,642.65	35.48	18.60	-138.39	1,207.46	-390.37	2,041.78	2,000.00	41.78	48.865		
3,900.00	3,357.18	3,841.00	3,727.30	36.88	19.13	-139.01	1,220.58	-369.24	2,077.08	2,034.16	42.92	48.397		
4,000.00	3,433.15	3,898.39	3,782.61	38.29	19.44	-139.43	1,228.47	-356.15	2,113.61	2,069.82	43.79	48.266		
4,100.00	3,509.13	3,962.00	3,844.61	39.69	19.79	-139.93	1,235.93	-344.07	2,152.80	2,108.14	44.66	48.206		
4,200.00	3,585.11	4,029.19	3,910.30	41.09	20.13	-140.47	1,243.51	-332.12	2,193.29	2,147.78	45.51	48.194		
4,300.00	3,661.08	4,178.71	4,055.18	42.50	20.96	-141.48	1,264.25	-301.69	2,232.57	2,185.59	46.98	47.523		
4,400.00	3,737.06	4,347.85	4,216.53	43.90	22.00	-142.37	1,293.24	-260.09	2,268.47	2,219.77	48.70	46.579		
4,500.00	3,813.04	4,419.92	4,285.50	45.31	22.45	-142.78	1,303.89	-242.14	2,304.09	2,254.42	49.67	46.383		
4,600.00	3,889.02	4,518.66	4,380.09	46.71	23.05	-143.33	1,318.14	-217.63	2,339.92	2,289.12	50.81	46.056		
4,700.00	3,964.99	4,585.00	4,443.50	48.12	23.46	-143.67	1,328.55	-201.14	2,376.17	2,324.44	51.73	45.938		
4,800.00	4,040.97	4,634.34	4,490.79	49.53	23.75	-143.91	1,336.47	-189.53	2,413.87	2,361.37	52.50	45.981		
4,900.00	4,116.95	4,675.00	4,530.01	50.94	23.99	-144.12	1,342.80	-180.85	2,453.53	2,400.36	53.17	46.144		

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,192.93	4,738.77	4,591.74	52.35	24.34	-144.46	1,352.57	-168.23	2,494.69	2,440.70	53.99	46.207		
5,100.00	4,268.90	5,011.16	4,854.94	53.76	25.88	-145.96	1,386.16	-107.10	2,533.05	2,476.87	56.18	45.091		
5,200.00	4,344.88	5,079.72	4,920.74	55.16	26.29	-146.32	1,394.05	-89.52	2,568.71	2,511.70	57.01	45.054		
5,300.00	4,420.86	5,135.46	4,974.41	56.57	26.62	-146.61	1,400.52	-75.97	2,605.73	2,547.98	57.76	45.116		
5,400.00	4,496.84	5,189.60	5,026.67	57.98	26.93	-146.88	1,407.17	-63.49	2,644.14	2,585.67	58.47	45.221		
5,500.00	4,572.81	5,240.84	5,076.23	59.39	27.21	-147.13	1,413.86	-52.32	2,683.94	2,624.79	59.15	45.372		
5,600.00	4,648.79	5,298.00	5,131.67	60.81	27.53	-147.39	1,421.62	-40.74	2,725.21	2,665.35	59.87	45.522		
5,700.00	4,724.77	5,409.36	5,239.66	62.22	28.14	-147.89	1,436.99	-18.33	2,766.89	2,705.90	60.99	45.370		
5,800.00	4,800.74	5,554.79	5,379.88	63.63	28.97	-148.47	1,459.08	13.27	2,807.36	2,744.96	62.40	44.988		
5,900.00	4,876.72	5,654.00	5,475.39	65.04	29.56	-148.88	1,472.49	36.50	2,846.11	2,782.68	63.43	44.870		
6,000.00	4,952.70	5,716.51	5,535.55	66.45	29.92	-149.12	1,481.37	50.96	2,885.48	2,821.29	64.19	44.949		
6,100.00	5,028.68	5,781.24	5,598.16	67.86	30.28	-149.38	1,490.28	64.80	2,926.30	2,861.35	64.95	45.053		
6,200.00	5,104.65	5,938.68	5,750.50	69.27	31.17	-150.03	1,509.23	99.66	2,966.51	2,900.17	66.33	44.720		
6,300.00	5,180.63	5,988.87	5,798.92	70.69	31.46	-150.22	1,515.88	111.08	3,006.29	2,939.30	66.98	44.881		
6,400.00	5,256.61	6,050.63	5,858.53	72.10	31.81	-150.43	1,524.96	124.44	3,047.25	2,979.53	67.72	44.996		
6,500.00	5,332.59	6,099.00	5,905.21	73.51	32.09	-150.59	1,532.46	134.66	3,089.01	3,020.66	68.35	45.192		
6,600.00	5,408.56	6,153.63	5,958.08	74.92	32.38	-150.77	1,540.82	145.53	3,131.91	3,062.90	69.01	45.381		
6,700.00	5,484.54	6,293.31	6,094.27	76.34	33.11	-151.31	1,556.95	171.85	3,175.85	3,105.60	70.25	45.208		
6,800.00	5,560.52	6,427.07	6,224.92	77.75	33.78	-151.95	1,565.55	199.18	3,218.02	3,146.75	71.27	45.155		
6,900.00	5,636.50	6,615.32	6,407.04	79.16	34.83	-152.71	1,581.63	243.79	3,256.60	3,183.90	72.69	44.799		
7,000.00	5,712.47	6,661.74	6,451.54	80.57	35.10	-152.84	1,588.51	255.06	3,295.76	3,222.44	73.32	44.951		
7,100.00	5,788.45	7,216.77	6,975.36	81.99	38.65	-154.53	1,653.92	416.63	3,333.70	3,256.79	76.91	43.346		
7,200.00	5,864.43	7,258.00	7,013.78	83.40	38.88	-154.82	1,648.40	430.52	3,361.83	3,284.45	77.37	43.449		
7,300.00	5,940.40	7,258.00	7,013.78	84.81	38.88	-154.82	1,648.40	430.52	3,391.96	3,314.13	77.83	43.581		
7,400.00	6,016.38	7,258.00	7,013.78	86.23	38.88	-154.82	1,648.40	430.52	3,424.75	3,346.52	78.23	43.780		
7,500.00	6,092.36	7,299.81	7,052.86	87.64	39.03	-155.16	1,640.11	442.80	3,458.74	3,380.25	78.49	44.066		
7,600.00	6,168.34	7,348.00	7,097.92	89.05	39.19	-155.61	1,627.18	453.91	3,496.35	3,417.69	78.67	44.446		
7,700.00	6,244.31	7,348.00	7,097.92	90.47	39.19	-155.61	1,627.18	453.91	3,534.60	3,455.67	78.93	44.780		
7,800.00	6,320.29	7,348.00	7,097.92	91.88	39.19	-155.61	1,627.18	453.91	3,575.24	3,496.09	79.15	45.171		
7,900.00	6,396.27	7,348.00	7,097.92	93.30	39.19	-155.61	1,627.18	453.91	3,618.19	3,538.87	79.32	45.617		
8,000.00	6,472.25	7,348.00	7,097.92	94.71	39.19	-155.61	1,627.18	453.91	3,663.36	3,583.92	79.44	46.116		
8,100.00	6,548.22	7,383.25	7,130.64	96.12	39.24	-155.96	1,615.63	460.06	3,709.78	3,630.35	79.43	46.705		
8,200.00	6,624.20	7,396.21	7,142.60	97.54	39.26	-156.10	1,610.99	461.94	3,758.37	3,678.92	79.45	47.306		
8,300.00	6,700.18	7,437.00	7,179.86	98.95	39.31	-156.54	1,595.06	466.52	3,809.32	3,729.97	79.35	48.005		
8,400.00	6,776.16	7,437.00	7,179.86	100.37	39.31	-156.54	1,595.06	466.52	3,861.02	3,781.66	79.35	48.655		
8,500.00	6,852.13	7,437.00	7,179.86	101.78	39.31	-156.54	1,595.06	466.52	3,914.58	3,835.26	79.33	49.348		
8,600.00	6,928.11	7,437.00	7,179.86	103.20	39.31	-156.54	1,595.06	466.52	3,969.95	3,890.68	79.27	50.083		
8,700.00	7,004.09	7,437.00	7,179.86	104.61	39.31	-156.54	1,595.06	466.52	4,027.03	3,947.85	79.18	50.856		
8,800.00	7,080.06	7,476.79	7,215.72	106.02	39.32	-156.99	1,578.07	469.41	4,084.98	4,006.00	78.98	51.719		
8,900.00	7,156.04	7,491.61	7,228.99	107.44	39.32	-157.16	1,571.51	470.19	4,144.60	4,065.77	78.83	52.574		
9,000.00	7,232.02	7,702.53	7,409.96	108.85	39.33	-159.69	1,464.63	484.51	4,204.56	4,126.52	78.04	53.879		
9,104.68	7,311.55	7,739.73	7,439.78	110.33	39.32	-160.16	1,442.66	487.92	4,266.85	4,189.07	77.78	54.859		
9,150.00	7,346.29	8,090.25	7,634.53	110.97	39.10	-173.84	1,163.03	537.96	4,293.19	4,217.80	75.40	56.941		
9,200.00	7,385.15	8,093.60	7,635.51	111.65	39.09	176.51	1,159.89	538.58	4,322.04	4,246.69	75.35	57.361		
9,250.00	7,424.29	8,098.05	7,636.79	112.31	39.09	166.73	1,155.71	539.39	4,350.68	4,275.39	75.29	57.787		
9,300.00	7,463.40	8,103.51	7,638.34	112.93	39.09	157.08	1,150.57	540.37	4,378.91	4,303.69	75.22	58.216		
9,350.00	7,502.19	8,109.91	7,640.12	113.51	39.08	147.80	1,144.53	541.50	4,406.49	4,331.35	75.14	58.645		
9,400.00	7,540.36	8,117.16	7,642.09	114.04	39.08	139.07	1,137.66	542.76	4,433.21	4,358.16	75.05	59.069		
9,450.00	7,577.62	8,149.00	7,650.10	114.53	39.07	130.78	1,107.28	547.91	4,459.12	4,384.33	74.79	59.623		
9,500.00	7,613.70	8,149.00	7,650.10	114.95	39.07	123.62	1,107.28	547.91	4,483.41	4,408.66	74.75	59.978		
9,550.00	7,648.30	8,149.00	7,650.10	115.32	39.07	117.23	1,107.28	547.91	4,506.32	4,431.60	74.72	60.310		
9,600.00	7,681.18	8,149.00	7,650.10	115.63	39.07	111.61	1,107.28	547.91	4,527.72	4,453.02	74.70	60.614		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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		
9,650.00	7,712.08	8,149.00	7,650.10	115.88	39.07	106.70	1,107.28	547.91	4,547.45	4,472.76	74.69	60.885		
9,700.00	7,740.76	8,149.00	7,650.10	116.08	39.07	102.46	1,107.28	547.91	4,565.39	4,490.69	74.70	61.117		
9,750.00	7,767.01	8,149.00	7,650.10	116.23	39.07	98.84	1,107.28	547.91	4,581.43	4,506.69	74.73	61.304		
9,800.00	7,790.63	8,189.03	7,658.89	116.33	39.02	95.66	1,068.62	553.40	4,594.62	4,520.12	74.50	61.672		
9,850.00	7,811.44	8,198.89	7,660.86	116.38	39.01	93.15	1,059.03	554.56	4,606.10	4,531.59	74.51	61.819		
9,900.00	7,829.28	8,238.00	7,667.91	116.38	38.98	91.08	1,020.76	558.43	4,615.73	4,541.40	74.33	62.100		
9,950.00	7,844.01	8,238.00	7,667.91	116.35	38.98	89.57	1,020.76	558.43	4,622.32	4,547.85	74.47	62.070		
10,000.00	7,855.52	8,238.00	7,667.91	116.28	38.98	88.48	1,020.76	558.43	4,626.63	4,551.97	74.66	61.973		
10,050.00	7,863.72	8,238.00	7,667.91	116.18	38.98	87.81	1,020.76	558.43	4,628.63	4,553.74	74.89	61.809		
10,100.00	7,868.56	8,267.31	7,672.65	116.06	38.94	87.56	991.93	560.79	4,628.12	4,553.18	74.94	61.757		
10,145.94	7,870.00	8,290.24	7,676.24	115.92	38.92	87.72	969.35	562.51	4,625.38	4,550.33	75.05	61.628		
10,200.00	7,870.00	8,327.00	7,681.80	115.76	38.89	87.78	933.10	565.06	4,621.05	4,545.92	75.13	61.505		
10,300.00	7,870.00	8,371.66	7,688.05	115.46	38.86	87.86	888.97	567.83	4,613.79	4,538.28	75.52	61.096		
10,400.00	7,870.00	8,417.00	7,693.68	115.18	38.84	87.93	844.05	570.34	4,607.54	4,531.63	75.91	60.696		
10,500.00	7,870.00	8,417.00	7,693.68	114.91	38.84	87.93	844.05	570.34	4,603.05	4,526.39	76.66	60.046		
10,600.00	7,870.00	8,457.80	7,697.74	114.65	38.80	87.98	803.48	571.70	4,599.77	4,522.61	77.16	59.613		
10,700.00	7,870.00	8,506.00	7,700.82	114.41	38.79	88.02	755.39	571.36	4,599.04	4,521.43	77.61	59.255		
10,745.29	7,870.00	8,506.00	7,700.82	114.30	38.79	88.02	755.39	571.36	4,598.82	4,520.82	78.00	58.961		
10,800.00	7,870.00	8,506.00	7,700.82	114.17	38.79	88.02	755.39	571.36	4,599.15	4,520.69	78.46	58.621		
10,900.00	7,870.00	8,506.00	7,700.82	113.95	38.79	88.02	755.39	571.36	4,601.42	4,522.08	79.34	57.995		
11,000.00	7,870.00	8,547.95	7,702.45	113.75	38.75	88.04	713.50	569.68	4,605.22	4,525.31	79.91	57.630		
11,100.00	7,870.00	8,595.00	7,703.72	113.55	38.73	88.05	666.56	566.73	4,610.72	4,530.25	80.47	57.297		
11,200.00	7,870.00	8,685.89	7,705.79	113.37	38.71	88.08	575.92	560.43	4,617.18	4,536.41	80.78	57.161		
11,300.00	7,870.00	9,088.82	7,716.30	113.20	39.64	88.22	173.48	548.00	4,619.79	4,538.88	80.91	57.099		
11,383.05	7,870.00	9,142.89	7,716.64	113.06	39.91	88.22	119.41	547.97	4,619.55	4,537.89	81.66	56.572		
11,400.00	7,870.00	9,153.15	7,716.71	113.04	39.96	88.22	109.15	547.92	4,619.57	4,537.76	81.81	56.467		
11,500.00	7,870.00	9,218.00	7,717.34	112.89	40.33	88.23	44.31	547.27	4,620.18	4,537.42	82.76	55.823		
11,600.00	7,870.00	9,591.78	7,717.99	112.76	43.39	88.23	-329.29	555.73	4,615.97	4,529.90	86.07	53.630		
11,700.00	7,870.00	9,704.69	7,716.22	112.64	44.57	88.21	-442.05	561.23	4,610.81	4,522.93	87.88	52.467		
11,800.00	7,870.00	9,774.63	7,714.86	112.53	45.33	88.19	-511.89	564.64	4,605.73	4,516.46	89.27	51.593		
11,900.00	7,870.00	9,818.51	7,714.45	112.44	45.82	88.19	-555.74	566.26	4,601.72	4,511.34	90.38	50.914		
12,000.00	7,870.00	9,904.68	7,714.60	112.36	46.79	88.19	-641.88	568.53	4,598.72	4,506.65	92.07	49.947		
12,100.00	7,870.00	9,931.00	7,714.64	112.29	47.10	88.19	-668.19	569.27	4,596.19	4,503.19	93.00	49.422		
12,200.00	7,870.00	9,977.52	7,714.66	112.24	47.63	88.19	-714.71	569.95	4,594.87	4,500.65	94.21	48.770		
12,220.72	7,870.00	9,982.86	7,714.66	112.23	47.69	88.19	-720.05	569.94	4,594.83	4,500.42	94.41	48.667		
12,300.00	7,870.00	10,020.00	7,714.61	112.20	48.12	88.19	-757.18	569.39	4,595.46	4,500.07	95.39	48.177		
12,400.00	7,870.00	10,054.19	7,714.54	112.17	48.52	88.19	-791.36	568.47	4,597.33	4,500.87	96.46	47.659		
12,500.00	7,870.00	10,146.71	7,714.18	112.16	49.60	88.18	-883.84	565.95	4,599.73	4,501.35	98.38	46.756		
12,600.00	7,870.00	10,253.26	7,713.16	112.17	50.89	88.17	-990.35	562.90	4,602.30	4,501.73	100.57	45.762		
12,700.00	7,870.00	12,700.00	7,710.08	112.19	84.64	88.13	-1,185.42	559.94	4,603.43	4,467.76	135.67	33.931		
12,800.00	7,870.00	10,522.02	7,709.31	112.23	54.35	88.12	-1,259.05	559.54	4,603.77	4,497.57	106.20	43.350		
12,900.00	7,870.00	10,642.11	7,708.09	112.28	55.96	88.11	-1,379.11	557.87	4,604.94	4,496.00	108.94	42.269		
13,000.00	7,870.00	10,765.07	7,704.94	112.36	57.66	88.07	-1,502.03	557.55	4,604.91	4,493.09	111.83	41.179		
13,011.61	7,870.00	10,773.94	7,704.65	112.37	57.78	88.07	-1,510.90	557.53	4,604.91	4,492.85	112.06	41.093		
13,100.00	7,870.00	10,822.00	7,703.07	112.45	58.46	88.05	-1,558.93	557.34	4,605.16	4,491.72	113.44	40.596		
13,200.00	7,870.00	10,883.57	7,702.01	112.56	59.32	88.03	-1,620.49	556.55	4,606.29	4,491.12	115.17	39.996		
13,300.00	7,870.00	10,940.76	7,702.62	112.68	60.12	88.04	-1,677.65	555.04	4,608.51	4,491.68	116.83	39.447		
13,400.00	7,870.00	11,019.32	7,704.46	112.83	61.22	88.07	-1,756.14	552.35	4,611.49	4,492.52	118.97	38.763		
13,500.00	7,870.00	11,314.51	7,714.37	113.00	65.51	88.19	-2,051.07	546.83	4,613.77	4,487.66	126.11	36.585		
13,600.00	7,870.00	11,405.43	7,716.08	113.19	66.87	88.21	-2,141.98	547.43	4,612.71	4,484.03	128.68	35.847		
13,700.00	7,870.00	11,505.26	7,717.48	113.40	68.38	88.23	-2,241.80	547.90	4,611.86	4,480.37	131.49	35.075		
13,800.00	7,870.00	11,613.07	7,718.62	113.63	70.02	88.24	-2,349.59	548.61	4,610.84	4,476.32	134.52	34.275		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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		
13,900.00	7,870.00	11,688.82	7,719.01	113.89	71.18	88.25	-2,425.34	549.00	4,609.98	4,473.19	136.78	33.702		
13,983.07	7,870.00	11,745.81	7,718.99	114.13	72.06	88.25	-2,482.33	548.98	4,609.73	4,471.21	138.52	33.279		
14,000.00	7,870.00	11,757.01	7,718.96	114.18	72.23	88.25	-2,493.53	548.94	4,609.74	4,470.88	138.86	33.197		
14,100.00	7,870.00	11,904.47	7,718.08	114.48	74.51	88.24	-2,640.98	548.45	4,609.95	4,466.97	142.98	32.242		
14,200.00	7,870.00	11,974.05	7,717.18	114.82	75.60	88.22	-2,710.56	548.53	4,609.49	4,464.37	145.12	31.763		
14,300.00	7,870.00	12,061.87	7,715.70	115.18	76.97	88.21	-2,798.37	548.37	4,609.38	4,461.63	147.75	31.197		
14,341.98	7,870.00	12,151.09	7,714.08	115.34	78.38	88.19	-2,887.57	548.52	4,609.22	4,458.97	150.25	30.677		
14,400.00	7,870.00	12,215.71	7,712.88	115.57	79.40	88.17	-2,952.18	549.06	4,608.57	4,456.41	152.16	30.288		
14,500.00	7,870.00	12,306.12	7,711.00	115.99	80.84	88.15	-3,042.56	549.81	4,607.48	4,452.58	154.91	29.743		
14,600.00	7,870.00	12,366.87	7,709.38	116.44	81.81	88.13	-3,103.29	550.06	4,606.88	4,450.02	156.85	29.371		
14,607.60	7,870.00	12,370.45	7,709.29	116.48	81.86	88.13	-3,106.87	550.05	4,606.87	4,449.90	156.97	29.348		
14,700.00	7,870.00	12,426.00	7,708.09	116.92	82.75	88.11	-3,162.41	549.53	4,607.40	4,448.64	158.75	29.022		
14,800.00	7,870.00	12,477.36	7,707.29	117.44	83.56	88.10	-3,213.75	548.56	4,608.87	4,448.43	160.44	28.727		
14,900.00	7,870.00	12,589.11	7,707.13	117.98	85.33	88.10	-3,325.47	546.00	4,610.85	4,447.02	163.82	28.145		
15,000.00	7,870.00	12,742.71	7,709.01	118.56	87.80	88.12	-3,479.05	544.49	4,611.24	4,442.79	168.45	27.374		
15,100.00	7,870.00	13,004.97	7,710.59	119.17	92.08	88.14	-3,741.22	548.78	4,608.17	4,431.90	176.27	26.143		
15,200.00	7,870.00	13,049.00	7,710.59	119.81	92.81	88.14	-3,785.24	549.74	4,605.67	4,427.86	177.82	25.901		
15,300.00	7,870.00	13,106.39	7,710.53	120.48	93.75	88.14	-3,842.63	550.37	4,604.25	4,424.51	179.74	25.617		
15,400.00	7,870.00	15,400.00	7,710.46	121.19	131.72	88.14	-3,944.43	550.93	4,603.37	4,383.75	219.62	20.961		
15,500.00	7,870.00	13,273.68	7,710.63	121.93	96.50	88.14	-4,009.92	551.31	4,602.55	4,417.43	185.13	24.862		
15,518.39	7,870.00	13,281.44	7,710.73	122.07	96.62	88.14	-4,017.67	551.29	4,602.53	4,417.13	185.40	24.825		
15,600.00	7,870.00	13,317.00	7,711.51	122.71	97.21	88.15	-4,053.22	550.96	4,602.95	4,416.33	186.62	24.664		
15,700.00	7,870.00	13,418.35	7,714.65	123.52	98.87	88.19	-4,154.51	549.47	4,603.99	4,414.11	189.88	24.247		
15,800.00	7,870.00	13,540.27	7,718.42	124.36	100.87	88.24	-4,276.37	548.08	4,604.69	4,410.91	193.78	23.762		
15,900.00	7,870.00	15,900.00	7,723.63	125.23	140.48	88.30	-4,481.07	548.68	4,603.91	4,367.16	236.75	19.446		
16,000.00	7,870.00	13,895.94	7,726.81	126.14	106.81	88.34	-4,631.90	551.85	4,601.33	4,396.26	205.07	22.438		
16,100.00	7,870.00	13,940.00	7,727.43	127.07	107.55	88.35	-4,675.93	553.01	4,598.74	4,392.10	206.64	22.255		
16,200.00	7,870.00	13,995.69	7,728.05	128.04	108.48	88.36	-4,731.61	553.87	4,597.15	4,388.61	208.54	22.045		
16,300.00	7,870.00	14,178.38	7,729.85	129.04	111.55	88.38	-4,914.26	556.31	4,595.36	4,380.97	214.39	21.435		
16,400.00	7,870.00	14,233.33	7,730.28	130.06	112.48	88.38	-4,969.20	557.21	4,593.36	4,377.07	216.28	21.238		
16,500.00	7,870.00	14,297.00	7,730.67	131.11	113.55	88.39	-5,032.87	557.62	4,592.32	4,373.88	218.44	21.023		
16,533.56	7,870.00	14,297.00	7,730.67	131.47	113.55	88.39	-5,032.87	557.62	4,592.19	4,373.71	218.49	21.018		
16,600.00	7,870.00	14,328.29	7,730.80	132.19	114.07	88.39	-5,064.15	557.47	4,592.37	4,372.82	219.55	20.917		
16,700.00	7,870.00	14,386.00	7,730.83	133.29	115.03	88.39	-5,121.85	556.17	4,593.99	4,372.51	221.48	20.742		
16,800.00	7,870.00	14,419.26	7,730.77	134.42	115.58	88.39	-5,155.09	555.04	4,596.63	4,374.03	222.60	20.650		
16,900.00	7,870.00	14,611.92	7,730.56	135.57	118.79	88.39	-5,347.67	549.55	4,599.50	4,370.61	228.89	20.095		
17,000.00	7,870.00	14,771.95	7,730.29	136.75	121.48	88.38	-5,507.69	548.53	4,599.70	4,365.57	234.13	19.646		
17,100.00	7,870.00	14,972.94	7,729.40	137.94	124.89	88.37	-5,708.67	550.10	4,598.79	4,358.11	240.67	19.108		
17,200.00	7,870.00	15,054.16	7,729.08	139.16	126.27	88.37	-5,789.87	551.90	4,596.31	4,352.90	243.42	18.882		
17,300.00	7,870.00	15,104.39	7,728.79	140.39	127.13	88.36	-5,840.10	552.46	4,594.89	4,349.72	245.17	18.742		
17,400.00	7,870.00	15,163.00	7,728.33	141.65	128.12	88.36	-5,898.70	552.42	4,594.55	4,347.39	247.16	18.589		
17,446.09	7,870.00	15,367.52	7,731.31	142.23	131.62	88.39	-6,103.16	555.41	4,593.51	4,339.69	253.82	18.097		
17,500.00	7,870.00	15,404.19	7,732.08	142.92	132.25	88.40	-6,139.80	556.45	4,591.76	4,336.66	255.10	18.000		
17,600.00	7,870.00	15,489.72	7,733.81	144.21	133.72	88.42	-6,225.29	558.53	4,588.93	4,330.91	258.02	17.785		
17,700.00	7,870.00	15,606.03	7,736.11	145.52	135.71	88.45	-6,341.54	561.41	4,586.07	4,324.14	261.94	17.508		
17,800.00	7,870.00	15,668.69	7,737.42	146.84	136.79	88.47	-6,404.17	562.86	4,583.37	4,319.24	264.12	17.353		
17,900.00	7,870.00	15,728.15	7,738.64	148.18	137.81	88.48	-6,463.61	563.74	4,581.51	4,315.32	266.19	17.211		
18,000.00	7,870.00	15,786.00	7,739.84	149.54	138.80	88.50	-6,521.45	564.06	4,580.57	4,312.38	268.19	17.079		
18,045.43	7,870.00	15,806.98	7,740.26	150.15	139.16	88.50	-6,542.42	564.02	4,580.47	4,311.56	268.92	17.033		
18,100.00	7,870.00	15,832.45	7,740.77	150.90	139.59	88.51	-6,567.88	563.83	4,580.68	4,310.89	269.79	16.979		
18,200.00	7,870.00	15,875.00	7,741.59	152.28	140.32	88.52	-6,610.42	563.15	4,581.95	4,310.73	271.21	16.894		
18,300.00	7,870.00	15,921.34	7,742.47	153.67	141.10	88.53	-6,656.73	561.84	4,584.43	4,311.69	272.74	16.809		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
18,400.00	7,870.00	15,964.00	7,743.28	155.07	141.82	88.54	-6,699.35	560.08	4,588.17	4,314.06	274.10	16.739		
18,500.00	7,870.00	16,264.30	7,745.76	156.49	146.92	88.57	-6,999.53	553.09	4,589.73	4,305.34	284.38	16.139		
18,502.20	7,870.00	16,266.28	7,745.77	156.52	146.95	88.57	-7,001.51	553.08	4,589.73	4,305.27	284.45	16.135		
18,600.00	7,870.00	16,347.99	7,746.01	157.91	148.35	88.58	-7,083.22	552.70	4,589.86	4,302.63	287.23	15.980		
18,700.00	7,870.00	16,429.16	7,746.26	159.35	149.74	88.58	-7,164.38	551.90	4,590.49	4,300.50	289.98	15.830		
18,800.00	7,870.00	16,540.43	7,746.54	160.79	151.64	88.58	-7,275.64	550.90	4,591.04	4,297.28	293.76	15.629		
18,900.00	7,870.00	16,653.69	7,746.68	162.25	153.58	88.59	-7,388.91	549.98	4,591.52	4,293.91	297.61	15.428		
19,000.00	7,870.00	16,765.09	7,747.04	163.71	155.49	88.59	-7,500.30	549.53	4,591.58	4,290.18	301.40	15.234		
19,008.66	7,870.00	16,774.32	7,747.07	163.84	155.65	88.59	-7,509.53	549.50	4,591.57	4,289.86	301.72	15.218		
19,100.00	7,870.00	16,841.68	7,747.27	165.18	156.81	88.59	-7,576.89	549.09	4,591.80	4,287.79	304.01	15.104		
19,200.00	7,870.00	16,934.81	7,747.46	166.66	158.41	88.60	-7,670.02	548.21	4,592.40	4,285.22	307.18	14.950		
19,300.00	7,870.00	17,033.18	7,747.33	168.15	160.09	88.59	-7,768.39	547.24	4,593.06	4,282.52	310.54	14.791		
19,400.00	7,870.00	17,135.26	7,746.69	169.65	161.85	88.59	-7,870.45	546.26	4,593.70	4,279.69	314.01	14.629		
19,500.00	7,870.00	17,242.06	7,745.28	171.15	163.68	88.57	-7,977.24	545.24	4,594.36	4,276.71	317.65	14.463		
19,600.00	7,870.00	17,332.05	7,743.77	172.66	165.23	88.55	-8,067.22	544.72	4,594.67	4,273.96	320.71	14.326		
19,700.00	7,870.00	17,390.00	7,743.33	174.18	166.23	88.55	-8,125.16	543.76	4,595.93	4,273.27	322.66	14.244		
19,800.00	7,870.00	17,512.07	7,743.35	175.70	168.32	88.55	-8,247.21	541.79	4,597.20	4,270.35	326.85	14.065		
19,889.26	7,870.00	17,576.88	7,743.54	177.06	169.44	88.55	-8,312.01	540.63	4,598.47	4,269.42	329.05	13.975 SF		

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-53.18	786.88	-1,051.10	1,313.04					
100.00	100.00	83.21	83.21	0.13	0.14	-53.18	787.08	-1,051.21	1,313.24	1,312.97	0.27	4,798.402 ES		
200.00	200.00	175.66	175.66	0.49	0.29	-53.16	787.78	-1,051.62	1,314.04	1,313.26	0.79	1,671.763		
300.00	300.00	268.10	268.08	0.85	0.45	-53.14	788.98	-1,052.31	1,315.42	1,314.12	1.30	1,013.200		
400.00	399.98	362.20	362.16	1.21	0.69	-121.26	790.67	-1,053.31	1,318.25	1,316.36	1.90	695.560		
500.00	499.84	458.15	458.09	1.56	1.04	-121.33	792.62	-1,054.56	1,323.23	1,320.63	2.60	509.594		
600.00	599.45	553.82	553.72	1.93	1.38	-121.48	794.73	-1,056.02	1,330.33	1,327.02	3.30	402.558		
700.00	698.70	679.49	679.31	2.32	1.83	-121.76	798.89	-1,056.08	1,338.83	1,334.70	4.13	324.349		
800.00	797.47	823.63	822.80	2.72	2.35	-121.90	808.67	-1,047.16	1,346.12	1,341.08	5.04	267.037		
900.00	895.62	1,018.82	1,015.04	3.16	3.12	-121.85	826.58	-1,019.06	1,349.92	1,343.71	6.21	217.493		
1,000.00	993.06	1,207.32	1,197.04	3.63	4.02	-121.63	844.59	-973.67	1,347.10	1,339.63	7.47	180.248		
1,100.00	1,089.64	1,294.35	1,280.06	4.14	4.49	-121.53	854.45	-949.47	1,345.01	1,336.62	8.39	160.249		
1,111.82	1,101.00	1,302.24	1,287.58	4.21	4.53	-121.52	855.43	-947.30	1,344.98	1,336.49	8.50	158.317		
1,200.00	1,185.27	1,367.00	1,349.49	4.70	4.89	-121.46	863.82	-930.26	1,346.67	1,337.38	9.30	144.875		
1,300.00	1,279.82	1,480.73	1,458.36	5.31	5.53	-121.50	878.74	-900.97	1,351.01	1,340.57	10.45	129.338		
1,400.00	1,373.17	1,593.92	1,565.89	5.97	6.21	-121.58	893.47	-868.84	1,354.79	1,343.13	11.66	116.175		
1,500.00	1,465.21	1,665.44	1,633.71	6.69	6.65	-121.62	903.90	-848.67	1,361.61	1,348.90	12.71	107.097		
1,600.00	1,555.84	1,732.65	1,697.75	7.47	7.06	-121.68	914.48	-831.24	1,372.71	1,358.94	13.78	99.631		
1,700.00	1,644.94	1,836.14	1,796.31	8.31	7.69	-121.91	931.79	-804.88	1,386.70	1,371.61	15.09	91.882		
1,800.00	1,732.39	1,955.15	1,909.35	9.23	8.43	-122.32	951.34	-773.19	1,401.48	1,384.93	16.55	84.695		
1,900.00	1,818.11	2,079.35	2,027.68	10.21	9.20	-122.97	968.80	-739.76	1,416.80	1,398.75	18.05	78.505		
2,000.00	1,901.97	2,152.22	2,097.33	11.26	9.65	-123.33	978.18	-720.52	1,434.02	1,414.74	19.28	74.384		
2,100.00	1,983.88	2,262.84	2,203.21	12.38	10.32	-124.10	992.55	-691.89	1,454.03	1,433.29	20.74	70.112		
2,200.00	2,063.74	2,327.35	2,265.08	13.57	10.70	-124.43	1,000.75	-675.55	1,476.63	1,454.67	21.96	67.243		
2,300.00	2,141.45	2,441.31	2,374.68	14.84	11.38	-125.41	1,014.70	-647.64	1,502.28	1,478.83	23.45	64.054		
2,327.78	2,162.65	2,456.63	2,389.42	15.21	11.46	-125.48	1,016.45	-643.86	1,509.67	1,485.89	23.78	63.486		
2,400.00	2,217.51	2,504.13	2,435.22	16.17	11.74	-126.11	1,021.91	-632.49	1,529.85	1,505.19	24.66	62.038		
2,500.00	2,293.49	2,572.63	2,501.47	17.51	12.12	-127.00	1,029.88	-617.07	1,559.56	1,533.70	25.86	60.302		
2,600.00	2,369.47	2,632.21	2,559.33	18.86	12.44	-127.78	1,036.79	-604.61	1,591.28	1,564.31	26.97	58.995		
2,700.00	2,445.45	2,688.08	2,613.82	20.22	12.73	-128.51	1,043.37	-594.22	1,625.52	1,597.50	28.02	58.014		
2,800.00	2,521.42	2,787.77	2,711.55	21.59	13.22	-129.86	1,053.14	-577.15	1,660.92	1,631.67	29.25	56.782		
2,900.00	2,597.40	2,891.44	2,813.29	22.97	13.72	-131.24	1,061.73	-559.18	1,696.33	1,665.87	30.46	55.696		
3,000.00	2,673.38	3,000.53	2,920.11	24.34	14.26	-132.63	1,070.55	-538.91	1,731.31	1,699.63	31.68	54.654		
3,100.00	2,749.36	3,103.31	3,020.21	25.73	14.80	-133.79	1,080.83	-517.97	1,766.01	1,733.12	32.89	53.694		
3,200.00	2,825.33	3,210.20	3,123.89	27.11	15.38	-134.90	1,092.70	-494.83	1,800.46	1,766.32	34.14	52.744		
3,300.00	2,901.31	3,323.78	3,233.82	28.50	16.01	-136.03	1,104.87	-469.01	1,834.31	1,798.90	35.40	51.813		
3,400.00	2,977.29	3,396.00	3,303.61	29.90	16.42	-136.71	1,112.98	-452.30	1,868.36	1,831.93	36.43	51.285		
3,500.00	3,053.27	3,466.39	3,371.66	31.29	16.82	-137.34	1,121.50	-436.43	1,903.57	1,866.14	37.43	50.851		
3,600.00	3,129.24	3,537.22	3,440.22	32.69	17.22	-137.95	1,130.71	-421.22	1,940.23	1,901.81	38.42	50.495		
3,700.00	3,205.22	3,616.53	3,517.07	34.08	17.65	-138.61	1,141.27	-404.74	1,977.89	1,938.44	39.45	50.135		
3,800.00	3,281.20	3,717.48	3,615.09	35.48	18.20	-139.44	1,153.75	-384.08	2,015.95	1,975.36	40.59	49.669		
3,900.00	3,357.18	3,835.82	3,730.05	36.88	18.84	-140.43	1,166.30	-358.92	2,053.20	2,011.42	41.78	49.139		
4,000.00	3,433.15	3,924.86	3,816.52	38.29	19.32	-141.17	1,174.88	-339.55	2,090.14	2,047.36	42.78	48.857		
4,100.00	3,509.13	4,001.28	3,890.72	39.69	19.73	-141.77	1,182.70	-322.98	2,127.58	2,083.89	43.70	48.690		
4,200.00	3,585.11	4,072.76	3,960.26	41.09	20.12	-142.32	1,190.05	-308.15	2,166.12	2,121.56	44.57	48.604		
4,300.00	3,661.08	4,169.74	4,054.55	42.50	20.64	-143.03	1,200.78	-288.21	2,205.27	2,159.67	45.60	48.364		
4,400.00	3,737.06	4,309.42	4,189.42	43.90	21.43	-143.91	1,218.98	-256.76	2,243.17	2,196.22	46.95	47.778		
4,500.00	3,813.04	4,399.17	4,276.03	45.31	21.95	-144.48	1,229.61	-235.75	2,280.31	2,232.37	47.95	47.558		
4,600.00	3,889.02	4,600.00	4,511.43	46.71	23.16	-145.89	1,260.22	-170.31	2,315.08	2,265.40	49.68	46.601		
4,700.00	3,964.99	4,751.72	4,611.00	48.12	24.21	-146.36	1,276.50	-137.18	2,345.69	2,294.56	51.12	45.882		
4,800.00	4,040.97	4,794.10	4,650.84	49.53	24.49	-146.54	1,283.16	-124.37	2,377.59	2,325.67	51.91	45.799		
4,900.00	4,116.95	4,829.29	4,684.20	50.94	24.72	-146.69	1,288.66	-114.59	2,411.82	2,359.20	52.61	45.840		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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	4,192.93	4,871.39	4,724.38	52.35	24.99	-146.88	1,295.22	-103.92	2,448.30	2,394.98	53.32	45.915		
5,100.00	4,268.90	4,931.77	4,782.24	53.76	25.36	-147.15	1,304.61	-89.45	2,486.30	2,432.16	54.14	45.927		
5,200.00	4,344.88	5,059.49	4,904.54	55.16	26.13	-147.69	1,324.77	-58.63	2,524.27	2,468.81	55.45	45.520		
5,300.00	4,420.86	5,141.49	4,982.76	56.57	26.64	-148.00	1,338.61	-38.25	2,561.79	2,505.34	56.44	45.386		
5,400.00	4,496.84	5,210.00	5,048.47	57.98	27.06	-148.29	1,348.87	-21.85	2,600.05	2,542.76	57.29	45.381		
5,500.00	4,572.81	5,267.72	5,104.15	59.39	27.38	-148.56	1,356.56	-8.73	2,639.38	2,581.36	58.02	45.491		
5,600.00	4,648.79	5,329.50	5,163.97	60.81	27.73	-148.84	1,364.45	4.56	2,679.89	2,621.14	58.75	45.615		
5,700.00	4,724.77	5,400.26	5,232.76	62.22	28.11	-149.19	1,372.44	19.07	2,721.33	2,661.82	59.51	45.728		
5,800.00	4,800.74	5,606.02	5,432.26	63.63	29.25	-150.19	1,393.40	64.73	2,761.36	2,700.21	61.14	45.162		
5,900.00	4,876.72	5,675.00	5,498.64	65.04	29.65	-150.48	1,402.04	81.39	2,799.82	2,737.89	61.93	45.209		
6,000.00	4,952.70	5,744.00	5,565.05	66.45	30.06	-150.74	1,411.56	97.47	2,839.21	2,776.48	62.73	45.262		
6,100.00	5,028.68	5,778.40	5,598.28	67.86	30.24	-150.87	1,416.33	105.03	2,879.86	2,816.62	63.25	45.533		
6,200.00	5,104.65	5,833.00	5,651.33	69.27	30.54	-151.08	1,423.31	115.85	2,922.35	2,858.46	63.89	45.740		
6,300.00	5,180.63	5,864.48	5,682.06	70.69	30.70	-151.21	1,427.08	121.60	2,966.16	2,901.83	64.32	46.113		
6,400.00	5,256.61	6,038.21	5,851.52	72.10	31.60	-151.93	1,446.54	154.36	3,010.31	2,944.51	65.81	45.744		
6,500.00	5,332.59	6,100.00	5,911.59	73.51	31.93	-152.17	1,453.78	166.94	3,052.82	2,986.34	66.48	45.922		
6,600.00	5,408.56	6,407.62	6,209.04	74.92	33.67	-153.34	1,486.62	237.48	3,093.88	3,025.07	68.81	44.965		
6,700.00	5,484.54	6,485.62	6,282.75	76.34	34.17	-153.50	1,500.89	258.64	3,130.44	3,060.69	69.75	44.880		
6,800.00	5,560.52	6,546.00	6,339.95	77.75	34.57	-153.61	1,512.61	273.99	3,168.41	3,097.84	70.57	44.900		
6,900.00	5,636.50	6,581.99	6,374.21	79.16	34.79	-153.68	1,519.44	282.67	3,207.52	3,136.38	71.15	45.083		
7,000.00	5,712.47	6,664.05	6,452.74	80.57	35.29	-153.87	1,533.55	301.83	3,247.66	3,175.57	72.08	45.054		
7,100.00	5,788.45	6,954.67	6,729.39	81.99	37.14	-154.64	1,574.63	380.49	3,283.07	3,208.60	74.48	44.081		
7,200.00	5,864.43	6,992.00	6,764.60	83.40	37.40	-154.73	1,580.59	391.36	3,318.14	3,243.05	75.09	44.189		
7,300.00	5,940.40	7,052.33	6,821.84	84.81	37.78	-154.87	1,589.60	408.17	3,354.34	3,278.50	75.84	44.232		
7,400.00	6,016.38	7,110.71	6,877.75	86.23	38.14	-155.04	1,596.56	423.42	3,391.97	3,315.45	76.51	44.332		
7,500.00	6,092.36	7,201.41	6,965.12	87.64	38.67	-155.38	1,602.91	446.89	3,429.97	3,352.68	77.30	44.374		
7,600.00	6,168.34	7,281.72	7,042.69	89.05	39.11	-155.73	1,605.13	467.59	3,468.16	3,390.22	77.94	44.500		
7,700.00	6,244.31	7,349.00	7,107.80	90.47	39.46	-156.05	1,605.35	484.50	3,507.03	3,428.56	78.47	44.693		
7,800.00	6,320.29	7,868.23	7,578.40	91.88	41.55	-160.53	1,469.58	640.48	3,537.50	3,459.84	77.66	45.553		
7,900.00	6,396.27	7,883.00	7,590.33	93.30	41.61	-160.70	1,462.33	645.30	3,568.35	3,490.38	77.97	45.768		
8,000.00	6,472.25	7,927.40	7,625.42	94.71	41.71	-161.24	1,438.89	659.09	3,600.95	3,522.92	78.03	46.147		
8,100.00	6,548.22	7,972.00	7,659.34	96.12	41.82	-161.81	1,412.82	671.65	3,635.91	3,557.86	78.05	46.585		
8,200.00	6,624.20	7,972.00	7,659.34	97.54	41.82	-161.81	1,412.82	671.65	3,672.54	3,594.22	78.33	46.886		
8,300.00	6,700.18	7,972.00	7,659.34	98.95	41.82	-161.81	1,412.82	671.65	3,711.51	3,632.95	78.56	47.244		
8,400.00	6,776.16	8,003.09	7,682.11	100.37	41.86	-162.23	1,393.20	679.56	3,752.27	3,673.72	78.55	47.770		
8,500.00	6,852.13	8,017.40	7,692.34	101.78	41.87	-162.42	1,383.77	682.94	3,795.13	3,716.52	78.61	48.277		
8,600.00	6,928.11	8,061.00	7,722.40	103.20	41.93	-163.03	1,353.59	692.18	3,840.40	3,761.94	78.45	48.952		
8,700.00	7,004.09	8,061.00	7,722.40	104.61	41.93	-163.03	1,353.59	692.18	3,886.79	3,808.25	78.54	49.485		
8,800.00	7,080.06	8,061.00	7,722.40	106.02	41.93	-163.03	1,353.59	692.18	3,935.19	3,856.58	78.60	50.065		
8,900.00	7,156.04	8,061.00	7,722.40	107.44	41.93	-163.03	1,353.59	692.18	3,985.50	3,906.87	78.63	50.688		
9,000.00	7,232.02	8,061.00	7,722.40	108.85	41.93	-163.03	1,353.59	692.18	4,037.66	3,959.04	78.63	51.353		
9,104.68	7,311.55	8,061.00	7,722.40	110.33	41.93	-163.03	1,353.59	692.18	4,094.18	4,015.58	78.59	52.093		
9,150.00	7,346.29	8,061.00	7,722.40	110.97	41.93	-171.27	1,353.59	692.18	4,119.20	4,040.62	78.57	52.424		
9,200.00	7,385.15	8,061.00	7,722.40	111.65	41.93	179.30	1,353.59	692.18	4,147.01	4,068.45	78.56	52.790		
9,250.00	7,424.29	8,061.00	7,722.40	112.31	41.93	169.70	1,353.59	692.18	4,174.82	4,096.28	78.54	53.156		
9,300.00	7,463.40	8,061.00	7,722.40	112.93	41.93	160.20	1,353.59	692.18	4,202.44	4,123.92	78.52	53.519		
9,350.00	7,502.19	8,061.00	7,722.40	113.51	41.93	151.00	1,353.59	692.18	4,229.65	4,151.14	78.51	53.876		
9,400.00	7,540.36	8,101.84	7,749.43	114.04	41.93	142.05	1,323.73	698.88	4,254.81	4,176.52	78.29	54.349		
9,450.00	7,577.62	8,107.19	7,752.93	114.53	41.93	134.05	1,319.74	699.58	4,280.21	4,201.96	78.25	54.699		
9,500.00	7,613.70	8,150.00	7,780.38	114.95	41.93	126.64	1,287.16	703.67	4,305.78	4,227.75	78.03	55.182		
9,550.00	7,648.30	8,150.00	7,780.38	115.32	41.93	120.20	1,287.16	703.67	4,328.59	4,250.55	78.04	55.469		
9,600.00	7,681.18	8,150.00	7,780.38	115.63	41.93	114.50	1,287.16	703.67	4,350.07	4,272.01	78.06	55.730		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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		
9,650.00	7,712.08	8,150.00	7,780.38	115.88	41.93	109.51	1,287.16	703.67	4,370.08	4,291.98	78.09	55.959		
9,700.00	7,740.76	8,150.00	7,780.38	116.08	41.93	105.17	1,287.16	703.67	4,388.49	4,310.33	78.16	56.151		
9,750.00	7,767.01	8,150.00	7,780.38	116.23	41.93	101.44	1,287.16	703.67	4,405.18	4,326.94	78.24	56.301		
9,800.00	7,790.63	8,150.00	7,780.38	116.33	41.93	98.27	1,287.16	703.67	4,420.04	4,341.68	78.36	56.404		
9,850.00	7,811.44	8,150.00	7,780.38	116.38	41.93	95.63	1,287.16	703.67	4,432.99	4,354.47	78.52	56.457		
9,900.00	7,829.28	8,150.00	7,780.38	116.38	41.93	93.46	1,287.16	703.67	4,443.93	4,365.21	78.72	56.455		
9,950.00	7,844.01	8,184.81	7,801.72	116.35	41.89	91.92	1,259.73	705.57	4,452.29	4,373.56	78.73	56.550		
10,000.00	7,855.52	8,197.05	7,808.93	116.28	41.88	90.72	1,249.84	706.07	4,458.62	4,379.69	78.93	56.491		
10,050.00	7,863.72	8,239.00	7,832.39	116.18	41.84	90.12	1,215.10	707.17	4,463.05	4,384.10	78.94	56.535		
10,100.00	7,868.56	8,239.00	7,832.39	116.06	41.84	89.70	1,215.10	707.17	4,464.57	4,385.27	79.30	56.297		
10,145.94	7,870.00	8,239.00	7,832.39	115.92	41.84	89.65	1,215.10	707.17	4,464.06	4,384.38	79.68	56.025		
10,200.00	7,870.00	8,251.59	7,839.04	115.76	41.82	89.73	1,204.41	707.34	4,462.67	4,382.62	80.05	55.747		
10,300.00	7,870.00	8,310.45	7,867.37	115.46	41.74	90.09	1,152.84	707.94	4,461.08	4,380.65	80.43	55.463		
10,399.39	7,870.00	8,367.11	7,889.76	115.18	41.65	90.38	1,100.83	708.14	4,460.54	4,379.75	80.80	55.207		
10,400.00	7,870.00	8,367.45	7,889.88	115.18	41.65	90.38	1,100.50	708.14	4,460.54	4,379.75	80.80	55.205		
10,500.00	7,870.00	8,417.00	7,904.24	114.91	41.58	90.57	1,053.11	707.89	4,461.07	4,379.87	81.20	54.940		
10,600.00	7,870.00	8,477.95	7,917.41	114.65	41.48	90.74	993.61	706.97	4,462.61	4,381.13	81.48	54.770		
10,700.00	7,870.00	10,700.00	7,933.46	114.41	53.40	90.94	887.88	704.66	4,464.67	4,381.50	83.17	53.679		
10,800.00	7,870.00	10,800.00	7,942.37	114.17	189.60	91.06	756.34	702.04	4,466.50	4,399.61	66.89	66.773		
10,900.00	7,870.00	8,886.44	7,943.07	113.95	41.28	91.07	586.84	700.82	4,466.84	4,386.07	80.76	55.309		
11,000.00	7,870.00	9,021.56	7,936.83	113.75	41.47	90.99	451.87	701.64	4,465.69	4,384.66	81.03	55.112		
11,096.53	7,870.00	9,069.76	7,935.06	113.56	41.56	90.96	403.71	701.80	4,465.08	4,383.41	81.67	54.674		
11,100.00	7,870.00	9,071.11	7,935.02	113.55	41.57	90.96	402.35	701.79	4,465.08	4,383.39	81.69	54.658		
11,200.00	7,870.00	9,130.00	7,933.76	113.37	41.70	90.95	343.49	700.94	4,465.92	4,383.55	82.37	54.217		
11,300.00	7,870.00	11,300.00	7,932.73	113.20	64.11	90.93	266.71	699.52	4,467.35	4,371.05	96.30	46.390		
11,400.00	7,870.00	9,293.09	7,932.13	113.04	42.21	90.93	180.43	698.05	4,468.74	4,384.81	83.93	53.241		
11,500.00	7,870.00	9,575.00	7,932.61	112.89	43.70	90.93	-101.41	699.88	4,466.41	4,380.63	85.79	52.065		
11,600.00	7,870.00	9,664.00	7,933.23	112.76	44.33	90.94	-190.37	702.06	4,463.71	4,376.64	87.07	51.265		
11,700.00	7,870.00	9,713.02	7,934.53	112.64	44.70	90.96	-239.37	703.07	4,461.81	4,373.70	88.11	50.640		
11,735.84	7,870.00	9,722.81	7,934.77	112.60	44.77	90.96	-249.16	703.10	4,461.60	4,373.18	88.42	50.456		
11,800.00	7,870.00	9,754.00	7,935.47	112.53	45.02	90.97	-280.33	702.81	4,461.82	4,372.73	89.09	50.082		
11,900.00	7,870.00	9,754.00	7,935.47	112.44	45.02	90.97	-280.33	702.81	4,463.37	4,373.63	89.75	49.734		
12,000.00	7,870.00	9,817.17	7,936.61	112.36	45.50	90.98	-343.47	701.02	4,466.11	4,375.16	90.95	49.106		
12,100.00	7,870.00	9,930.40	7,937.19	112.29	46.44	90.99	-456.59	696.37	4,469.95	4,377.29	92.65	48.244		
12,200.00	7,870.00	9,982.49	7,937.47	112.24	46.89	90.99	-508.64	694.27	4,473.67	4,379.84	93.83	47.678		
12,300.00	7,870.00	10,021.00	7,938.48	112.20	47.24	91.01	-547.09	692.35	4,478.52	4,383.64	94.88	47.200		
12,400.00	7,870.00	10,090.19	7,941.45	112.17	47.87	91.04	-616.09	688.22	4,484.32	4,388.01	96.31	46.560		
12,500.00	7,870.00	12,500.00	7,948.56	112.16	77.55	91.13	-861.77	675.49	4,489.50	4,362.06	127.44	35.229		
12,600.00	7,870.00	10,846.36	7,966.34	112.17	56.66	91.36	-1,370.95	678.67	4,491.08	4,381.32	109.76	40.917		
12,700.00	7,870.00	10,884.00	7,966.43	112.19	57.18	91.36	-1,408.55	680.32	4,485.97	4,375.04	110.93	40.438		
12,800.00	7,870.00	11,003.52	7,966.35	112.23	58.82	91.36	-1,527.98	685.16	4,481.68	4,367.85	113.83	39.373		
12,900.00	7,870.00	11,099.52	7,966.20	112.28	60.17	91.36	-1,623.86	689.86	4,476.46	4,360.17	116.29	38.495		
13,000.00	7,870.00	11,152.00	7,966.16	112.36	60.92	91.36	-1,676.29	692.16	4,471.85	4,354.03	117.82	37.956		
13,100.00	7,870.00	11,193.08	7,966.14	112.45	61.49	91.36	-1,717.35	693.48	4,468.45	4,349.35	119.10	37.518		
13,200.00	7,870.00	11,241.00	7,966.09	112.56	62.17	91.36	-1,765.26	694.07	4,466.63	4,346.10	120.54	37.056		
13,265.51	7,870.00	11,241.00	7,966.09	112.64	62.17	91.36	-1,765.26	694.07	4,466.15	4,345.37	120.78	36.977		
13,300.00	7,870.00	11,241.00	7,966.09	112.68	62.17	91.36	-1,765.26	694.07	4,466.29	4,345.38	120.91	36.940		
13,400.00	7,870.00	11,283.32	7,966.03	112.83	62.76	91.36	-1,807.58	693.59	4,467.44	4,345.23	122.21	36.555		
13,500.00	7,870.00	11,330.00	7,965.95	113.00	63.40	91.36	-1,854.22	691.82	4,470.48	4,346.86	123.61	36.166		
13,600.00	7,870.00	11,686.00	7,965.24	113.19	68.53	91.35	-2,210.03	690.02	4,470.05	4,337.68	132.37	33.770		
13,700.00	7,870.00	11,863.97	7,964.03	113.40	71.22	91.34	-2,387.92	695.00	4,467.05	4,329.90	137.15	32.569		
13,800.00	7,870.00	11,954.00	7,962.34	113.63	72.60	91.32	-2,477.86	698.73	4,462.58	4,322.81	139.76	31.929		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,900.00	7,870.00	12,007.97	7,961.32	113.89	73.43	91.30	-2,531.79	700.62	4,458.88	4,317.42	141.45	31.522		
14,000.00	7,870.00	12,043.00	7,960.66	114.18	73.97	91.29	-2,566.80	701.32	4,456.60	4,313.96	142.64	31.244		
14,100.00	7,870.00	12,078.27	7,959.99	114.48	74.51	91.29	-2,602.06	701.50	4,455.78	4,311.96	143.82	30.982		
14,103.35	7,870.00	12,079.33	7,959.97	114.50	74.52	91.29	-2,603.12	701.50	4,455.78	4,311.92	143.85	30.974		
14,200.00	7,870.00	12,132.00	7,958.98	114.82	75.32	91.27	-2,655.78	700.63	4,456.66	4,311.19	145.48	30.635		
14,300.00	7,870.00	12,293.83	7,955.90	115.18	77.80	91.23	-2,817.56	699.46	4,457.04	4,306.98	150.05	29.703		
14,400.00	7,870.00	14,400.00	7,953.50	115.57	111.29	91.20	-2,966.41	699.82	4,456.59	4,270.54	186.06	23.953		
14,500.00	7,870.00	12,631.51	7,952.69	115.99	83.11	91.19	-3,155.14	704.87	4,453.10	4,293.23	159.87	27.854		
14,600.00	7,870.00	12,731.15	7,952.34	116.44	84.70	91.19	-3,254.74	707.89	4,449.73	4,286.81	162.92	27.312		
14,700.00	7,870.00	12,819.45	7,952.10	116.92	86.12	91.19	-3,343.00	710.62	4,446.31	4,280.65	165.67	26.839		
14,800.00	7,870.00	12,844.00	7,952.09	117.44	86.52	91.19	-3,367.53	711.31	4,443.75	4,277.18	166.57	26.678		
14,900.00	7,870.00	12,898.37	7,952.05	117.98	87.38	91.19	-3,421.90	712.10	4,442.31	4,273.99	168.32	26.392		
14,924.45	7,870.00	12,906.21	7,952.04	118.12	87.51	91.19	-3,429.74	712.10	4,442.24	4,273.65	168.59	26.350		
15,000.00	7,870.00	12,934.00	7,952.01	118.56	87.95	91.19	-3,457.52	711.85	4,442.59	4,273.08	169.51	26.209		
15,100.00	7,870.00	12,966.22	7,951.97	119.17	88.46	91.19	-3,489.73	711.15	4,444.34	4,273.77	170.57	26.055		
15,200.00	7,870.00	13,023.00	7,951.87	119.81	89.35	91.18	-3,546.47	708.91	4,447.66	4,275.31	172.36	25.805		
15,300.00	7,870.00	13,085.13	7,951.74	120.48	90.32	91.18	-3,608.52	705.90	4,451.93	4,277.65	174.29	25.543		
15,400.00	7,870.00	13,217.85	7,951.48	121.19	92.41	91.18	-3,741.13	700.33	4,455.76	4,277.39	178.37	24.980		
15,500.00	7,870.00	13,314.70	7,951.35	121.93	93.94	91.17	-3,837.90	696.43	4,459.45	4,278.06	181.38	24.586		
15,600.00	7,870.00	13,426.87	7,950.98	122.71	95.73	91.17	-3,950.00	692.29	4,462.78	4,277.89	184.89	24.138		
15,700.00	7,870.00	13,543.24	7,950.76	123.52	97.59	91.16	-4,066.29	688.04	4,466.11	4,277.58	188.54	23.688		
15,800.00	7,870.00	15,800.00	7,956.16	124.36	135.47	91.24	-4,514.23	691.12	4,464.81	4,231.48	233.32	19.136		
15,900.00	7,870.00	14,061.65	7,958.05	125.23	106.13	91.26	-4,584.31	694.35	4,460.05	4,255.14	204.92	21.765		
16,000.00	7,870.00	14,113.67	7,959.00	126.14	107.00	91.27	-4,636.29	696.03	4,456.49	4,249.80	206.69	21.561		
16,100.00	7,870.00	14,181.00	7,960.11	127.07	108.13	91.29	-4,703.60	697.57	4,453.86	4,244.93	208.94	21.317		
16,200.00	7,870.00	14,237.39	7,961.05	128.04	109.07	91.30	-4,759.97	698.39	4,452.08	4,241.25	210.83	21.117		
16,300.00	7,870.00	14,298.09	7,962.06	129.04	110.08	91.31	-4,820.66	698.77	4,451.16	4,238.32	212.84	20.913		
16,351.14	7,870.00	14,328.36	7,962.56	129.56	110.58	91.32	-4,850.92	698.75	4,451.04	4,237.20	213.84	20.815		
16,400.00	7,870.00	14,359.00	7,963.07	130.06	111.09	91.33	-4,881.56	698.58	4,451.15	4,236.30	214.85	20.718		
16,500.00	7,870.00	14,409.63	7,963.92	131.11	111.93	91.34	-4,932.18	697.93	4,452.13	4,235.63	216.50	20.564		
16,600.00	7,870.00	14,599.82	7,966.88	132.19	115.08	91.38	-5,122.33	695.72	4,453.32	4,230.59	222.73	19.994		
16,700.00	7,870.00	14,700.00	7,968.35	133.29	116.76	91.39	-5,222.49	696.05	4,452.69	4,226.65	226.04	19.699		
16,800.00	7,870.00	14,782.27	7,969.52	134.42	118.14	91.41	-5,304.76	696.07	4,452.37	4,223.61	228.76	19.463		
16,900.00	7,870.00	14,897.69	7,971.22	135.57	120.07	91.43	-5,420.16	695.93	4,452.20	4,219.63	232.57	19.143		
17,000.00	7,870.00	15,002.61	7,972.77	136.75	121.83	91.45	-5,525.07	696.02	4,451.83	4,215.77	236.05	18.859		
17,100.00	7,870.00	15,115.54	7,974.04	137.94	123.74	91.47	-5,637.99	697.00	4,450.59	4,210.78	239.81	18.559		
17,185.67	7,870.00	15,163.00	7,973.54	138.98	124.54	91.46	-5,685.45	697.01	4,450.24	4,208.86	241.38	18.436		
17,200.00	7,870.00	15,163.00	7,973.54	139.16	124.54	91.46	-5,685.45	697.01	4,450.26	4,208.88	241.38	18.437		
17,300.00	7,870.00	15,220.54	7,972.50	140.39	125.50	91.45	-5,742.98	696.41	4,450.99	4,207.73	243.26	18.297		
17,400.00	7,870.00	15,286.72	7,971.39	141.65	126.61	91.43	-5,809.13	694.96	4,452.75	4,207.33	245.42	18.143		
17,500.00	7,870.00	15,376.01	7,969.12	142.92	128.10	91.40	-5,898.36	692.67	4,454.91	4,206.55	248.36	17.938		
17,600.00	7,870.00	15,457.41	7,968.02	144.21	129.46	91.39	-5,979.72	690.41	4,457.33	4,206.30	251.03	17.756		
17,700.00	7,870.00	16,232.00	7,979.80	145.52	142.71	91.55	-6,750.36	718.42	4,459.54	4,183.60	275.94	16.161		
17,800.00	7,870.00	16,278.32	7,983.92	146.84	143.52	91.61	-6,796.15	724.01	4,447.58	4,169.77	277.81	16.010		
17,900.00	7,870.00	16,321.00	7,988.08	148.18	144.27	91.66	-6,838.41	728.31	4,437.20	4,157.67	279.53	15.874		
18,000.00	7,870.00	16,321.00	7,988.08	149.54	144.27	91.66	-6,838.41	728.31	4,428.44	4,148.57	279.87	15.823		
18,100.00	7,870.00	16,355.41	7,991.37	150.90	144.87	91.71	-6,872.56	730.93	4,421.26	4,140.04	281.22	15.722		
18,200.00	7,870.00	16,375.73	7,993.11	152.28	145.22	91.73	-6,892.78	731.98	4,415.99	4,133.95	282.05	15.657		
18,300.00	7,870.00	16,410.00	7,995.72	153.67	145.82	91.76	-6,926.94	732.92	4,412.63	4,129.35	283.28	15.577		
18,400.00	7,870.00	16,410.00	7,995.72	155.07	145.82	91.76	-6,926.94	732.92	4,410.89	4,127.62	283.27	15.572		
18,462.28	7,870.00	16,445.32	7,997.81	155.95	146.42	91.79	-6,962.19	733.10	4,410.57	4,126.12	284.45	15.506		
18,500.00	7,870.00	16,459.49	7,998.44	156.49	146.66	91.80	-6,976.35	733.04	4,410.67	4,125.77	284.90	15.481		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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	
18,600.00	7,870.00	16,499.00	7,999.54	157.91	147.33	91.81	-7,015.84	732.44	4,411.91	4,125.77	286.14	15.419	
18,700.00	7,870.00	16,654.89	8,001.89	159.35	149.98	91.84	-7,171.69	730.02	4,413.17	4,121.65	291.52	15.139	
18,800.00	7,870.00	16,738.72	8,003.08	160.79	151.41	91.86	-7,255.50	729.20	4,413.88	4,119.55	294.33	14.996	
18,900.00	7,870.00	16,869.94	8,004.89	162.25	153.64	91.88	-7,386.70	727.75	4,414.74	4,115.91	298.84	14.773	
19,000.00	7,870.00	16,971.62	8,006.26	163.71	155.38	91.90	-7,488.38	727.22	4,414.97	4,112.67	302.30	14.605	
19,100.00	7,870.00	17,085.42	8,007.80	165.18	157.33	91.92	-7,602.17	726.55	4,415.30	4,109.11	306.19	14.420	
19,165.39	7,870.00	17,148.55	8,008.68	166.15	158.41	91.93	-7,665.28	726.52	4,415.15	4,106.81	308.34	14.319	
19,200.00	7,870.00	17,168.19	8,008.96	166.66	158.75	91.93	-7,684.93	726.43	4,415.21	4,106.22	308.99	14.289	
19,300.00	7,870.00	17,212.00	8,009.58	168.15	159.50	91.94	-7,728.73	725.99	4,416.07	4,105.69	310.38	14.228	
19,400.00	7,870.00	17,259.75	8,010.03	169.65	160.31	91.95	-7,776.46	724.91	4,418.15	4,106.28	311.87	14.167	
19,500.00	7,870.00	17,301.00	8,010.05	171.15	161.01	91.95	-7,817.68	723.32	4,421.63	4,108.56	313.07	14.123	
19,600.00	7,870.00	17,339.55	8,009.83	172.66	161.65	91.94	-7,856.18	721.30	4,426.47	4,112.35	314.12	14.092	
19,700.00	7,870.00	17,390.00	8,009.27	174.18	162.50	91.93	-7,906.51	717.92	4,432.67	4,117.08	315.58	14.046 SF	
19,800.00	7,870.00	17,390.00	8,009.27	175.70	162.50	91.93	-7,906.51	717.92	4,440.40	4,125.40	315.00	14.096	
19,889.26	7,870.00	17,444.15	8,008.48	177.06	163.40	91.92	-7,960.44	713.17	4,448.19	4,131.61	316.58	14.051	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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	-52.93	786.52	-1,041.02	1,304.77					
100.00	100.00	90.40	90.40	0.13	0.15	-52.92	786.67	-1,040.93	1,304.76	1,304.47	0.28	4,580.064	CC	
200.00	200.00	189.73	189.73	0.49	0.32	-52.89	787.19	-1,040.62	1,304.83	1,304.02	0.81	1,613.554		
300.00	300.00	289.06	289.06	0.85	0.48	-52.85	788.08	-1,040.10	1,304.95	1,303.62	1.33	979.366	ES	
400.00	399.98	387.22	387.21	1.21	0.78	-120.98	789.29	-1,039.44	1,306.05	1,304.07	1.98	658.588		
500.00	499.84	484.82	484.79	1.56	1.13	-121.05	790.70	-1,038.83	1,309.13	1,306.44	2.69	486.805		
600.00	599.45	582.22	582.18	1.93	1.48	-121.21	792.32	-1,038.29	1,314.20	1,310.79	3.40	386.100		
700.00	698.70	782.74	782.28	2.32	2.20	-121.66	796.01	-1,027.58	1,317.40	1,312.91	4.49	293.157		
800.00	797.47	946.64	944.08	2.72	2.86	-121.76	802.54	-1,002.64	1,315.47	1,309.97	5.50	239.085		
900.00	895.62	1,059.09	1,053.72	3.16	3.36	-121.67	811.44	-979.36	1,313.55	1,307.16	6.39	205.561		
999.27	992.35	1,158.08	1,148.96	3.63	3.86	-121.48	822.72	-954.89	1,312.18	1,304.89	7.30	179.866		
1,000.00	993.06	1,158.68	1,149.53	3.63	3.86	-121.48	822.80	-954.74	1,312.18	1,304.88	7.30	179.713		
1,100.00	1,089.64	1,244.25	1,231.10	4.14	4.33	-121.23	835.79	-932.37	1,313.71	1,305.49	8.22	159.810		
1,200.00	1,185.27	1,362.97	1,343.19	4.70	5.03	-120.87	856.83	-899.44	1,317.32	1,307.92	9.40	140.168		
1,300.00	1,279.82	1,439.54	1,414.89	5.31	5.51	-120.60	871.65	-877.00	1,322.37	1,311.95	10.42	126.894		
1,400.00	1,373.17	1,544.04	1,512.73	5.97	6.18	-120.35	892.80	-847.03	1,330.21	1,318.54	11.67	113.993		
1,500.00	1,465.21	1,688.64	1,647.14	6.69	7.18	-120.20	919.47	-800.93	1,335.44	1,322.19	13.25	100.791		
1,600.00	1,555.84	1,769.90	1,722.70	7.47	7.75	-120.15	935.12	-775.42	1,343.95	1,329.46	14.49	92.780		
1,700.00	1,644.94	1,903.75	1,847.31	8.31	8.70	-120.32	959.97	-733.38	1,354.02	1,337.91	16.11	84.066		
1,800.00	1,732.39	1,990.54	1,928.43	9.23	9.30	-120.53	974.34	-706.05	1,364.48	1,347.02	17.45	78.176		
1,900.00	1,818.11	2,103.74	2,034.81	10.21	10.08	-121.04	991.46	-671.36	1,376.71	1,357.73	18.98	72.544		
2,000.00	1,901.97	2,200.58	2,126.22	11.26	10.73	-121.61	1,004.01	-641.99	1,389.97	1,369.56	20.41	68.101		
2,100.00	1,983.88	2,276.86	2,198.58	12.38	11.23	-122.07	1,013.99	-620.00	1,406.63	1,384.89	21.74	64.713		
2,200.00	2,063.74	2,375.07	2,292.22	13.57	11.85	-122.86	1,025.71	-592.82	1,425.92	1,402.74	23.18	61.509		
2,300.00	2,141.45	2,463.00	2,376.29	14.84	12.40	-123.61	1,035.27	-568.91	1,447.53	1,422.96	24.57	58.918		
2,327.78	2,162.65	2,483.45	2,395.86	15.21	12.52	-123.77	1,037.60	-563.42	1,454.12	1,429.18	24.93	58.319		
2,400.00	2,217.51	2,536.43	2,446.53	16.17	12.85	-124.46	1,043.98	-549.35	1,472.09	1,446.21	25.88	56.887		
2,500.00	2,293.49	2,609.40	2,516.36	17.51	13.30	-125.39	1,053.55	-530.42	1,498.52	1,471.35	27.17	55.156		
2,600.00	2,369.47	2,683.00	2,586.81	18.86	13.76	-126.27	1,064.05	-511.90	1,526.68	1,498.24	28.44	53.680		
2,700.00	2,445.45	2,773.23	2,673.19	20.22	14.31	-127.32	1,077.46	-489.55	1,555.97	1,526.17	29.80	52.213		
2,800.00	2,521.42	2,913.92	2,807.49	21.59	15.19	-128.88	1,097.19	-452.59	1,584.09	1,552.63	31.46	50.352		
2,900.00	2,597.40	3,018.41	2,906.85	22.97	15.87	-129.98	1,110.99	-423.35	1,610.99	1,578.12	32.87	49.008		
3,000.00	2,673.38	3,142.80	3,024.94	24.34	16.68	-131.27	1,126.48	-387.46	1,637.35	1,602.98	34.37	47.633		
3,100.00	2,749.36	3,234.92	3,111.63	25.73	17.32	-132.12	1,139.18	-359.04	1,662.84	1,627.13	35.71	46.562		
3,200.00	2,825.33	3,290.23	3,163.57	27.11	17.71	-132.58	1,148.19	-342.30	1,690.10	1,653.28	36.82	45.903		
3,300.00	2,901.31	3,409.30	3,275.41	28.50	18.54	-133.51	1,168.61	-306.91	1,718.52	1,680.17	38.35	44.807		
3,400.00	2,977.29	3,503.64	3,363.90	29.90	19.20	-134.24	1,183.98	-278.04	1,746.04	1,706.34	39.69	43.987		
3,500.00	3,053.27	3,574.00	3,429.62	31.29	19.71	-134.74	1,196.41	-256.22	1,773.98	1,733.11	40.87	43.403		
3,600.00	3,129.24	3,639.49	3,491.01	32.69	20.16	-135.19	1,208.33	-236.76	1,803.52	1,761.53	41.99	42.956		
3,700.00	3,205.22	3,729.40	3,575.97	34.08	20.77	-135.83	1,224.07	-211.94	1,834.83	1,791.59	43.24	42.434		
3,800.00	3,281.20	3,824.65	3,665.98	35.48	21.41	-136.51	1,240.18	-185.28	1,865.88	1,821.37	44.51	41.924		
3,900.00	3,357.18	3,890.98	3,728.86	36.88	21.84	-136.98	1,251.12	-167.20	1,897.74	1,852.21	45.53	41.682		
4,000.00	3,433.15	3,961.00	3,795.50	38.29	22.30	-137.47	1,263.02	-149.29	1,931.36	1,884.81	46.56	41.486		
4,100.00	3,509.13	4,024.39	3,856.06	39.69	22.68	-137.91	1,273.70	-133.95	1,966.37	1,918.88	47.49	41.403		
4,200.00	3,585.11	4,143.18	3,970.06	41.09	23.40	-138.78	1,291.52	-105.70	2,001.73	1,952.93	48.80	41.020		
4,300.00	3,661.08	4,294.47	4,115.09	42.50	24.33	-139.91	1,310.50	-67.08	2,035.18	1,984.94	50.24	40.509		
4,400.00	3,737.06	4,359.67	4,177.44	43.90	24.72	-140.39	1,318.17	-49.63	2,067.67	2,016.56	51.11	40.458		
4,500.00	3,813.04	4,411.75	4,227.64	45.31	25.03	-140.79	1,323.83	-36.96	2,102.25	2,050.40	51.85	40.547		
4,600.00	3,889.02	4,540.87	4,351.94	46.71	25.80	-141.74	1,337.99	-5.06	2,136.76	2,083.70	53.06	40.269		
4,700.00	3,964.99	4,614.51	4,422.38	48.12	26.25	-142.21	1,347.88	14.00	2,171.10	2,117.13	53.96	40.233		
4,800.00	4,040.97	4,673.00	4,478.63	49.53	26.60	-142.59	1,355.58	28.08	2,207.08	2,152.35	54.73	40.323		
4,900.00	4,116.95	4,876.79	4,673.76	50.94	27.85	-143.84	1,381.61	80.58	2,242.04	2,185.56	56.48	39.697		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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	4,192.93	4,940.00	4,734.27	52.35	28.24	-144.25	1,388.44	97.51	2,275.40	2,218.14	57.27	39.732		
5,100.00	4,268.90	4,969.92	4,763.08	53.76	28.42	-144.44	1,391.61	104.93	2,310.54	2,252.72	57.81	39.965		
5,200.00	4,344.88	5,030.00	4,821.07	55.16	28.77	-144.80	1,398.73	118.91	2,347.76	2,289.23	58.53	40.113		
5,300.00	4,420.86	5,150.16	4,936.38	56.57	29.49	-145.43	1,416.08	147.90	2,384.93	2,325.19	59.74	39.920		
5,400.00	4,496.84	5,208.00	4,991.69	57.98	29.85	-145.70	1,425.17	162.15	2,422.04	2,361.55	60.50	40.037		
5,500.00	4,572.81	5,257.85	5,039.58	59.39	30.13	-145.94	1,432.85	173.66	2,460.70	2,399.55	61.15	40.241		
5,600.00	4,648.79	5,309.83	5,089.87	60.81	30.43	-146.20	1,440.36	184.40	2,501.27	2,439.49	61.78	40.484		
5,700.00	4,724.77	5,468.98	5,243.84	62.22	31.32	-147.03	1,460.84	219.12	2,540.65	2,477.43	63.22	40.184		
5,800.00	4,800.74	5,626.02	5,394.53	63.63	32.27	-147.79	1,481.07	258.36	2,576.89	2,512.25	64.65	39.862		
5,900.00	4,876.72	5,653.00	5,420.38	65.04	32.44	-147.91	1,484.74	265.16	2,614.39	2,549.29	65.11	40.154		
6,000.00	4,952.70	5,708.16	5,473.51	66.45	32.75	-148.16	1,492.04	278.03	2,653.44	2,587.69	65.75	40.358		
6,100.00	5,028.68	5,742.00	5,506.36	67.86	32.94	-148.32	1,496.27	284.99	2,694.70	2,628.51	66.19	40.713		
6,200.00	5,104.65	5,815.57	5,578.12	69.27	33.32	-148.70	1,504.33	299.07	2,737.25	2,670.36	66.89	40.923		
6,300.00	5,180.63	5,973.20	5,731.60	70.69	34.15	-149.47	1,521.59	330.45	2,779.37	2,711.14	68.23	40.735		
6,400.00	5,256.61	6,127.50	5,880.01	72.10	35.05	-150.06	1,543.82	366.28	2,818.40	2,748.72	69.68	40.447		
6,500.00	5,332.59	6,188.00	5,938.23	73.51	35.41	-150.28	1,552.48	380.22	2,857.91	2,787.53	70.38	40.608		
6,600.00	5,408.56	6,248.14	5,996.32	74.92	35.75	-150.51	1,560.73	393.42	2,898.45	2,827.41	71.04	40.798		
6,700.00	5,484.54	6,308.87	6,054.99	76.34	36.09	-150.73	1,569.53	406.44	2,939.74	2,868.03	71.71	40.994		
6,800.00	5,560.52	6,366.00	6,110.40	77.75	36.40	-150.94	1,577.34	417.91	2,982.21	2,909.88	72.33	41.231		
6,900.00	5,636.50	6,448.91	6,191.11	79.16	36.84	-151.27	1,587.47	433.97	3,025.38	2,952.26	73.12	41.375		
7,000.00	5,712.47	7,000.00	6,528.01	80.57	40.19	-152.55	1,629.73	517.24	3,064.02	2,987.14	76.89	39.852		
7,100.00	5,788.45	6,857.21	6,583.59	81.99	39.26	-152.72	1,638.17	533.46	3,099.85	3,023.22	76.63	40.454		
7,200.00	5,864.43	6,902.00	6,626.37	83.40	39.54	-152.86	1,644.66	545.03	3,137.30	3,060.09	77.22	40.631		
7,300.00	5,940.40	6,985.70	6,706.63	84.81	40.05	-153.11	1,655.98	565.91	3,175.70	3,097.63	78.07	40.677		
7,400.00	6,016.38	7,027.74	6,747.07	86.23	40.30	-153.25	1,661.14	576.15	3,214.75	3,136.17	78.58	40.910		
7,500.00	6,092.36	7,080.00	6,797.65	87.64	40.60	-153.43	1,667.11	587.88	3,255.40	3,176.26	79.14	41.134		
7,600.00	6,168.34	7,104.46	6,821.42	89.05	40.72	-153.52	1,669.74	592.99	3,297.40	3,217.94	79.46	41.499		
7,700.00	6,244.31	7,489.39	7,186.23	90.47	42.30	-156.26	1,626.03	684.42	3,335.41	3,255.30	80.11	41.635		
7,800.00	6,320.29	7,525.00	7,218.49	91.88	42.41	-156.64	1,613.77	693.21	3,372.27	3,292.09	80.19	42.055		
7,900.00	6,396.27	7,525.00	7,218.49	93.30	42.41	-156.64	1,613.77	693.21	3,410.98	3,330.59	80.39	42.431		
8,000.00	6,472.25	7,557.78	7,248.29	94.71	42.47	-156.99	1,602.26	700.55	3,451.70	3,371.29	80.41	42.927		
8,100.00	6,548.22	7,583.17	7,271.29	96.12	42.52	-157.27	1,592.86	705.83	3,494.29	3,413.87	80.42	43.448		
8,200.00	6,624.20	7,614.00	7,299.06	97.54	42.59	-157.62	1,580.87	711.73	3,538.71	3,458.32	80.38	44.022		
8,300.00	6,700.18	7,715.93	7,389.53	98.95	42.76	-158.79	1,538.05	730.97	3,584.26	3,504.24	80.02	44.790		
8,400.00	6,776.16	7,738.41	7,409.05	100.37	42.78	-159.05	1,527.69	735.10	3,630.67	3,550.71	79.97	45.403		
8,500.00	6,852.13	7,768.41	7,434.77	101.78	42.82	-159.42	1,513.20	740.39	3,678.65	3,598.81	79.85	46.072		
8,600.00	6,928.11	7,970.00	7,592.99	103.20	43.00	-162.13	1,394.63	777.70	3,727.20	3,648.50	78.70	47.359		
8,700.00	7,004.09	7,970.00	7,592.99	104.61	43.00	-162.13	1,394.63	777.70	3,775.99	3,697.27	78.71	47.971		
8,800.00	7,080.06	8,007.36	7,619.05	106.02	43.01	-162.67	1,368.90	785.02	3,826.17	3,747.70	78.47	48.761		
8,900.00	7,156.04	8,020.19	7,627.45	107.44	43.01	-162.87	1,359.49	787.33	3,878.33	3,799.99	78.34	49.503		
9,000.00	7,232.02	8,059.00	7,651.09	108.85	43.03	-163.47	1,329.38	793.67	3,932.57	3,854.55	78.02	50.406		
9,104.68	7,311.55	8,059.00	7,651.09	110.33	43.03	-163.47	1,329.38	793.67	3,990.55	3,912.62	77.93	51.207		
9,150.00	7,346.29	8,059.00	7,651.09	110.97	43.03	-171.81	1,329.38	793.67	4,016.20	3,938.32	77.89	51.563		
9,200.00	7,385.15	8,059.00	7,651.09	111.65	43.03	178.64	1,329.38	793.67	4,044.68	3,966.83	77.85	51.957		
9,250.00	7,424.29	8,059.00	7,651.09	112.31	43.03	168.94	1,329.38	793.67	4,073.13	3,995.32	77.81	52.349		
9,300.00	7,463.40	8,059.00	7,651.09	112.93	43.03	159.34	1,329.38	793.67	4,101.33	4,023.56	77.77	52.737		
9,350.00	7,502.19	8,059.00	7,651.09	113.51	43.03	150.07	1,329.38	793.67	4,129.09	4,051.36	77.74	53.117		
9,400.00	7,540.36	8,059.00	7,651.09	114.04	43.03	141.33	1,329.38	793.67	4,156.20	4,078.49	77.71	53.485		
9,450.00	7,577.62	8,096.21	7,671.30	114.53	43.00	132.97	1,298.59	798.90	4,181.88	4,104.45	77.43	54.012		
9,500.00	7,613.70	8,106.87	7,676.67	114.95	42.99	125.61	1,289.48	800.27	4,206.73	4,129.39	77.33	54.398		
9,550.00	7,648.30	8,117.92	7,682.04	115.32	42.98	119.04	1,279.93	801.63	4,230.26	4,153.01	77.24	54.764		
9,600.00	7,681.18	8,148.00	7,695.60	115.63	42.97	113.15	1,253.29	805.00	4,252.45	4,175.44	77.02	55.215		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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		
9,650.00	7,712.08	8,148.00	7,695.60	115.88	42.97	108.15	1,253.29	805.00	4,272.72	4,195.67	77.04	55.458		
9,700.00	7,740.76	8,148.00	7,695.60	116.08	42.97	103.82	1,253.29	805.00	4,291.32	4,214.22	77.10	55.662		
9,750.00	7,767.01	8,182.98	7,709.93	116.23	42.92	100.04	1,221.58	808.54	4,307.86	4,230.97	76.89	56.027		
9,800.00	7,790.63	8,208.34	7,719.64	116.33	42.89	96.90	1,198.29	811.00	4,322.25	4,245.47	76.78	56.293		
9,850.00	7,811.44	8,237.00	7,729.94	116.38	42.87	94.31	1,171.67	813.65	4,334.37	4,257.70	76.67	56.532		
9,900.00	7,829.28	8,237.00	7,729.94	116.38	42.87	92.26	1,171.67	813.65	4,344.23	4,267.39	76.84	56.536		
9,950.00	7,844.01	8,279.59	7,744.20	116.35	42.81	90.69	1,131.71	817.29	4,351.50	4,274.80	76.70	56.734		
10,000.00	7,855.52	8,302.30	7,751.40	116.28	42.79	89.58	1,110.24	819.05	4,356.44	4,279.68	76.76	56.757		
10,050.00	7,863.72	8,327.00	7,758.92	116.18	42.76	88.91	1,086.78	820.82	4,358.90	4,282.07	76.83	56.732		
10,100.00	7,868.56	8,327.00	7,758.92	116.06	42.76	88.60	1,086.78	820.82	4,358.99	4,281.83	77.16	56.489		
10,145.94	7,870.00	8,327.00	7,758.92	115.92	42.76	88.65	1,086.78	820.82	4,357.11	4,279.59	77.52	56.209		
10,200.00	7,870.00	8,371.02	7,771.17	115.76	42.71	88.82	1,044.58	823.39	4,353.42	4,275.85	77.58	56.117		
10,300.00	7,870.00	8,416.00	7,781.93	115.46	42.66	88.96	1,000.94	825.08	4,348.44	4,270.44	78.00	55.749		
10,400.00	7,870.00	8,416.00	7,781.93	115.18	42.66	88.96	1,000.94	825.08	4,345.02	4,266.14	78.87	55.089		
10,500.00	7,870.00	8,452.84	7,789.07	114.91	42.60	89.05	964.81	825.61	4,343.26	4,263.83	79.43	54.682		
10,546.11	7,870.00	8,464.08	7,790.88	114.79	42.59	89.07	953.72	825.58	4,343.07	4,263.32	79.75	54.457		
10,600.00	7,870.00	8,505.00	7,796.00	114.65	42.54	89.14	913.13	824.78	4,343.68	4,263.86	79.82	54.417		
10,700.00	7,870.00	10,700.00	7,803.54	114.41	200.89	89.24	671.21	824.74	4,344.69	4,238.64	106.05	40.969		
10,800.00	7,870.00	8,815.51	7,804.65	114.17	42.44	89.26	602.90	826.63	4,341.73	4,262.61	79.12	54.875		
10,900.00	7,870.00	8,861.00	7,804.98	113.95	42.49	89.26	557.42	827.02	4,340.31	4,260.59	79.72	54.445		
10,942.40	7,870.00	8,861.00	7,804.98	113.86	42.49	89.26	557.42	827.02	4,340.10	4,260.02	80.08	54.195		
11,000.00	7,870.00	8,861.00	7,804.98	113.75	42.49	89.26	557.42	827.02	4,340.48	4,259.91	80.57	53.870		
11,100.00	7,870.00	8,918.28	7,804.73	113.55	42.53	89.26	500.15	826.22	4,341.87	4,260.69	81.18	53.485		
11,200.00	7,870.00	8,959.22	7,804.10	113.37	42.58	89.25	459.24	824.80	4,344.93	4,263.05	81.88	53.064		
11,300.00	7,870.00	9,180.66	7,803.27	113.20	43.03	89.24	237.89	819.00	4,347.24	4,264.95	82.29	52.827		
11,400.00	7,870.00	9,332.67	7,802.95	113.04	43.60	89.23	85.90	817.81	4,347.77	4,264.45	83.32	52.180		
11,500.00	7,870.00	9,461.17	7,803.35	112.89	44.27	89.24	-42.60	818.21	4,347.13	4,262.55	84.58	51.394		
11,600.00	7,870.00	9,547.36	7,802.94	112.76	44.79	89.23	-128.79	818.72	4,346.22	4,260.45	85.77	50.672		
11,700.00	7,870.00	9,643.68	7,801.78	112.64	45.46	89.22	-225.10	818.92	4,345.68	4,258.57	87.11	49.885		
11,781.28	7,870.00	9,687.84	7,800.86	112.55	45.78	89.21	-269.25	818.95	4,345.47	4,257.48	88.00	49.383		
11,800.00	7,870.00	9,695.01	7,800.65	112.53	45.84	89.20	-276.42	818.90	4,345.55	4,257.38	88.17	49.285		
11,900.00	7,870.00	9,752.00	7,798.15	112.44	46.28	89.17	-333.34	817.83	4,346.91	4,257.62	89.29	48.684		
12,000.00	7,870.00	10,072.72	7,799.73	112.36	49.28	89.19	-653.78	822.05	4,343.79	4,250.21	93.58	46.420		
12,100.00	7,870.00	10,177.17	7,803.21	112.29	50.42	89.24	-758.12	825.26	4,340.35	4,244.71	95.63	45.385		
12,200.00	7,870.00	10,296.54	7,806.87	112.24	51.78	89.28	-877.36	829.43	4,336.47	4,238.44	98.03	44.236		
12,300.00	7,870.00	12,300.00	7,809.15	112.20	78.71	89.31	-1,001.40	833.93	4,332.59	4,206.27	126.32	34.299		
12,400.00	7,870.00	10,502.28	7,810.66	112.17	54.27	89.33	-1,082.89	837.60	4,327.80	4,225.26	102.54	42.206		
12,500.00	7,870.00	10,554.00	7,811.05	112.16	54.92	89.34	-1,134.60	838.96	4,324.50	4,220.58	103.92	41.615		
12,600.00	7,870.00	10,578.75	7,811.02	112.17	55.23	89.34	-1,159.35	839.26	4,322.44	4,217.63	104.80	41.244		
12,700.00	7,870.00	10,643.00	7,810.67	112.19	56.04	89.33	-1,223.59	839.64	4,321.50	4,215.08	106.42	40.606		
12,769.19	7,870.00	10,688.83	7,810.24	112.22	56.61	89.33	-1,269.42	839.60	4,321.33	4,213.74	107.59	40.164		
12,800.00	7,870.00	10,710.06	7,810.01	112.23	56.88	89.32	-1,290.65	839.51	4,321.36	4,213.24	108.12	39.968		
12,900.00	7,870.00	10,805.60	7,808.74	112.28	58.11	89.31	-1,386.18	838.84	4,321.73	4,211.34	110.40	39.147		
13,000.00	7,870.00	10,913.05	7,806.43	112.36	59.52	89.28	-1,493.60	838.25	4,321.97	4,209.01	112.96	38.260		
13,100.00	7,870.00	11,006.70	7,802.02	112.45	60.78	89.22	-1,587.14	837.73	4,322.25	4,206.97	115.28	37.494		
13,200.00	7,870.00	11,113.48	7,794.91	112.56	62.23	89.12	-1,693.68	837.24	4,322.48	4,204.57	117.90	36.661		
13,300.00	7,870.00	11,198.31	7,788.74	112.68	63.41	89.04	-1,778.29	836.86	4,322.72	4,202.62	120.09	35.995		
13,400.00	7,870.00	11,285.25	7,782.07	112.83	64.63	88.95	-1,864.96	836.02	4,323.48	4,201.13	122.35	35.337		
13,500.00	7,870.00	11,387.94	7,773.84	113.00	66.08	88.85	-1,967.32	835.05	4,324.24	4,199.24	125.00	34.594		
13,600.00	7,870.00	11,505.56	7,763.20	113.19	67.77	88.70	-2,084.45	834.16	4,324.87	4,196.84	128.03	33.779		
13,693.89	7,870.00	11,615.82	7,751.68	113.39	69.37	88.55	-2,194.11	834.11	4,324.80	4,193.88	130.92	33.035		
13,700.00	7,870.00	11,619.49	7,751.35	113.40	69.43	88.55	-2,197.76	834.10	4,324.80	4,193.78	131.02	33.008		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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		
13,800.00	7,870.00	11,681.00	7,747.32	113.63	70.33	88.49	-2,259.13	833.68	4,325.32	4,192.53	132.79	32.572		
13,900.00	7,870.00	11,831.99	7,743.12	113.89	72.57	88.44	-2,410.06	833.68	4,324.74	4,187.84	136.90	31.591		
13,922.49	7,870.00	11,846.46	7,743.04	113.95	72.78	88.44	-2,424.53	833.65	4,324.71	4,187.38	137.33	31.491		
14,000.00	7,870.00	11,907.40	7,743.39	114.18	73.69	88.44	-2,485.46	833.32	4,324.85	4,185.73	139.11	31.089		
14,100.00	7,870.00	12,019.95	7,745.67	114.48	75.39	88.47	-2,597.98	832.50	4,325.21	4,182.85	142.36	30.382		
14,200.00	7,870.00	12,176.29	7,749.35	114.82	77.78	88.52	-2,754.27	833.68	4,323.75	4,176.87	146.88	29.438		
14,300.00	7,870.00	12,283.85	7,754.01	115.18	79.44	88.58	-2,861.73	834.25	4,322.79	4,172.69	150.10	28.799		
14,400.00	7,870.00	12,426.12	7,760.24	115.57	81.66	88.66	-3,003.84	836.37	4,320.86	4,166.49	154.37	27.991		
14,500.00	7,870.00	12,525.38	7,764.32	115.99	83.23	88.72	-3,103.00	838.55	4,318.23	4,160.80	157.42	27.431		
14,600.00	7,870.00	12,624.93	7,769.42	116.44	84.80	88.78	-3,202.41	840.20	4,316.12	4,155.61	160.51	26.890		
14,700.00	7,870.00	12,701.83	7,773.26	116.92	86.02	88.83	-3,279.19	841.71	4,313.79	4,150.85	162.94	26.475		
14,800.00	7,870.00	12,758.17	7,776.42	117.44	86.92	88.88	-3,335.45	842.15	4,312.52	4,147.76	164.76	26.175		
14,900.00	7,870.00	12,943.46	7,786.80	117.98	89.88	89.01	-3,520.42	844.37	4,311.01	4,140.51	170.50	25.285		
15,000.00	7,870.00	12,980.26	7,789.00	118.56	90.47	89.04	-3,557.16	844.82	4,309.11	4,137.38	171.74	25.091		
15,100.00	7,870.00	13,067.67	7,794.49	119.17	91.87	89.12	-3,644.39	845.13	4,308.27	4,133.74	174.53	24.685		
15,200.00	7,870.00	13,196.00	7,801.74	119.81	93.95	89.21	-3,772.51	846.80	4,306.44	4,127.83	178.60	24.112		
15,300.00	7,870.00	13,259.93	7,804.92	120.48	94.98	89.25	-3,836.35	847.58	4,304.95	4,124.28	180.67	23.827		
15,361.12	7,870.00	13,285.00	7,806.01	120.91	95.39	89.27	-3,861.40	847.62	4,304.66	4,123.17	181.49	23.718		
15,400.00	7,870.00	13,310.59	7,806.99	121.19	95.80	89.28	-3,886.96	847.51	4,304.70	4,122.38	182.31	23.612		
15,500.00	7,870.00	13,374.00	7,808.61	121.93	96.82	89.30	-3,950.35	846.66	4,305.58	4,121.25	184.34	23.357		
15,600.00	7,870.00	13,458.13	7,809.25	122.71	98.17	89.31	-4,034.46	845.03	4,307.13	4,120.13	187.00	23.033		
15,700.00	7,870.00	13,569.03	7,807.82	123.52	99.95	89.29	-4,145.34	843.25	4,308.40	4,117.89	190.51	22.615		
15,800.00	7,870.00	13,947.41	7,811.61	124.36	106.20	89.34	-4,523.37	852.27	4,303.51	4,100.89	202.62	21.240		
15,900.00	7,870.00	13,997.00	7,812.30	125.23	107.04	89.35	-4,572.91	854.45	4,298.83	4,094.54	204.29	21.043		
16,000.00	7,870.00	14,028.49	7,812.57	126.14	107.56	89.35	-4,604.38	855.41	4,295.56	4,090.20	205.36	20.917		
16,100.00	7,870.00	14,056.33	7,812.73	127.07	108.02	89.36	-4,632.23	855.75	4,293.98	4,087.71	206.27	20.817		
16,161.58	7,870.00	14,086.00	7,812.81	127.67	108.51	89.36	-4,661.89	855.61	4,293.91	4,086.68	207.23	20.720		
16,200.00	7,870.00	14,086.00	7,812.81	128.04	108.51	89.36	-4,661.89	855.61	4,294.08	4,086.87	207.21	20.723		
16,300.00	7,870.00	14,131.83	7,812.52	129.04	109.26	89.35	-4,707.71	854.72	4,295.64	4,086.99	208.64	20.588		
16,400.00	7,870.00	14,201.25	7,811.04	130.06	110.39	89.33	-4,777.08	852.55	4,298.36	4,087.52	210.84	20.387		
16,500.00	7,870.00	14,364.33	7,811.92	131.11	113.06	89.35	-4,940.11	848.76	4,300.25	4,084.02	216.23	19.888		
16,600.00	7,870.00	14,495.43	7,812.38	132.19	115.23	89.35	-5,071.20	847.20	4,301.05	4,080.50	220.55	19.502		
16,700.00	7,870.00	14,619.63	7,814.29	133.29	117.29	89.38	-5,195.37	846.13	4,301.58	4,076.92	224.66	19.147		
16,800.00	7,870.00	14,789.03	7,816.15	134.42	120.12	89.40	-5,364.76	846.88	4,300.72	4,070.41	230.30	18.674		
16,900.00	7,870.00	14,867.19	7,817.48	135.57	121.43	89.42	-5,442.90	847.63	4,299.42	4,066.52	232.89	18.461		
17,000.00	7,870.00	14,988.00	7,819.50	136.75	123.46	89.45	-5,563.69	848.53	4,298.35	4,061.42	236.93	18.142		
17,100.00	7,870.00	15,057.42	7,821.45	137.94	124.63	89.47	-5,633.09	849.00	4,297.29	4,058.05	239.24	17.962		
17,200.00	7,870.00	15,189.75	7,826.25	139.16	126.86	89.54	-5,765.32	849.99	4,296.18	4,052.48	243.70	17.629		
17,300.00	7,870.00	15,292.63	7,828.59	140.39	128.60	89.57	-5,868.16	851.30	4,294.55	4,047.39	247.16	17.376		
17,400.00	7,870.00	15,379.64	7,829.92	141.65	130.07	89.59	-5,955.16	852.24	4,293.12	4,043.05	250.07	17.168		
17,500.00	7,870.00	15,452.48	7,831.04	142.92	131.30	89.60	-6,027.99	852.79	4,292.06	4,039.57	252.50	16.999		
17,558.87	7,870.00	15,483.66	7,831.68	143.68	131.83	89.61	-6,059.16	852.78	4,291.87	4,038.36	253.51	16.930		
17,600.00	7,870.00	15,519.00	7,832.58	144.21	132.43	89.62	-6,094.49	852.53	4,292.01	4,037.31	254.69	16.852		
17,700.00	7,870.00	15,629.81	7,835.79	145.52	134.29	89.66	-6,205.25	851.68	4,292.46	4,034.02	258.44	16.609		
17,800.00	7,870.00	15,802.43	7,841.29	146.84	137.23	89.74	-6,377.77	853.16	4,291.07	4,026.71	264.36	16.232		
17,900.00	7,870.00	15,908.85	7,844.47	148.18	139.04	89.78	-6,484.14	854.65	4,289.32	4,021.35	267.98	16.006		
18,000.00	7,870.00	15,996.38	7,847.04	149.54	140.54	89.81	-6,571.61	856.18	4,287.27	4,016.33	270.94	15.824		
18,100.00	7,870.00	16,053.00	7,848.41	150.90	141.50	89.83	-6,628.22	856.59	4,286.16	4,013.34	272.82	15.711		
18,200.00	7,870.00	16,160.34	7,851.13	152.28	143.33	89.87	-6,735.52	856.79	4,285.65	4,009.18	276.47	15.501		
18,300.00	7,870.00	16,348.80	7,854.89	153.67	146.56	89.92	-6,923.89	860.66	4,282.77	3,999.82	282.96	15.136		
18,400.00	7,870.00	16,410.00	7,855.25	155.07	147.61	89.92	-6,985.08	861.77	4,280.52	3,995.50	285.01	15.019		
18,500.00	7,870.00	16,465.13	7,855.44	156.49	148.55	89.93	-7,040.21	862.22	4,279.22	3,992.39	286.84	14.919		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,600.00	7,870.00	16,549.12	7,855.72	157.91	149.98	89.93	-7,124.20	862.51	4,278.54	3,988.87	289.66	14.771	
18,700.00	7,870.00	16,638.55	7,856.00	159.35	151.51	89.93	-7,213.63	862.62	4,278.09	3,985.40	292.68	14.617	
18,800.00	7,870.00	16,748.88	7,856.79	160.79	153.39	89.94	-7,323.96	862.60	4,277.77	3,981.32	296.45	14.430	
18,900.00	7,870.00	16,885.44	7,859.15	162.25	155.73	89.98	-7,460.49	863.39	4,276.88	3,975.71	301.17	14.201	
19,000.00	7,870.00	17,050.94	7,862.08	163.71	158.58	90.01	-7,625.94	866.49	4,274.65	3,967.75	306.90	13.929	
19,100.00	7,870.00	17,178.67	7,864.08	165.18	160.79	90.04	-7,753.59	870.28	4,271.34	3,960.05	311.29	13.721	
19,200.00	7,870.00	17,267.20	7,864.88	166.66	162.33	90.05	-7,842.07	873.13	4,267.79	3,953.47	314.33	13.578	
19,300.00	7,870.00	17,339.98	7,865.18	168.15	163.59	90.06	-7,914.83	875.10	4,264.77	3,947.96	316.81	13.462	
19,400.00	7,870.00	17,411.50	7,865.25	169.65	164.82	90.06	-7,986.33	876.52	4,262.44	3,943.20	319.23	13.352	
19,500.00	7,870.00	17,492.74	7,865.78	171.15	166.22	90.06	-8,067.56	877.66	4,260.68	3,938.69	321.99	13.232	
19,600.00	7,870.00	17,588.12	7,866.93	172.66	167.87	90.08	-8,162.92	878.90	4,259.05	3,933.79	325.26	13.094	
19,700.00	7,870.00	17,657.00	7,867.72	174.18	169.06	90.09	-8,231.80	879.40	4,257.98	3,930.41	327.57	12.999	
19,800.00	7,870.00	17,732.60	7,868.47	175.70	170.36	90.10	-8,307.40	879.45	4,257.57	3,927.45	330.11	12.897	
19,832.85	7,870.00	17,758.47	7,868.71	176.20	170.80	90.10	-8,333.26	879.39	4,257.54	3,926.56	330.98	12.863	
19,889.26	7,870.00	17,809.59	7,869.16	177.06	171.68	90.11	-8,384.38	879.16	4,257.60	3,924.87	332.72	12.796 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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	-35.07	218.57	-153.44	267.17				
100.00	100.00	94.47	94.47	0.13	0.16	-35.17	217.94	-153.58	266.63	266.33	0.29	908.321	
200.00	200.00	197.95	197.92	0.49	0.39	-35.55	215.68	-154.12	265.16	264.27	0.88	299.822	
300.00	300.00	300.62	300.41	0.85	0.77	-36.65	210.21	-156.38	262.13	260.51	1.62	161.605	
400.00	399.98	396.45	395.87	1.21	1.14	-106.94	203.31	-161.19	259.99	257.65	2.34	111.239	
411.82	411.79	407.43	406.80	1.25	1.18	-107.25	202.56	-161.88	259.96	257.54	2.42	107.342 CC, ES	
500.00	499.84	490.02	489.01	1.56	1.50	-109.90	197.41	-167.96	261.51	258.45	3.06	85.456	
600.00	599.45	583.69	582.03	1.93	1.88	-113.76	191.52	-177.17	267.07	263.27	3.81	70.171	
700.00	698.70	675.07	672.35	2.32	2.26	-118.42	184.71	-189.23	277.49	272.92	4.57	60.733	
800.00	797.47	763.33	759.16	2.72	2.66	-123.36	177.66	-203.47	294.04	288.70	5.34	55.089	
900.00	895.62	847.87	841.74	3.16	3.06	-128.31	170.10	-219.90	317.70	311.61	6.09	52.156	
1,000.00	993.06	935.32	926.68	3.63	3.50	-133.25	162.06	-239.05	348.64	341.79	6.85	50.879	
1,100.00	1,089.64	1,029.22	1,018.03	4.14	3.98	-138.10	152.68	-258.66	383.73	376.10	7.63	50.262 SF	
1,200.00	1,185.27	1,116.22	1,102.78	4.70	4.43	-142.10	143.63	-276.14	423.05	414.68	8.37	50.539	
1,300.00	1,279.82	1,204.87	1,189.03	5.31	4.90	-145.81	133.64	-294.02	467.03	457.92	9.10	51.299	
1,400.00	1,373.17	1,295.34	1,277.36	5.97	5.36	-149.10	123.75	-310.89	514.15	504.31	9.84	52.247	
1,500.00	1,465.21	1,377.84	1,358.10	6.69	5.78	-151.66	115.10	-325.48	564.60	554.07	10.52	53.649	
1,600.00	1,555.84	1,451.52	1,430.09	7.47	6.15	-153.67	107.16	-338.99	619.39	608.24	11.15	55.560	
1,700.00	1,644.94	1,519.98	1,496.83	8.31	6.51	-155.28	99.84	-352.36	678.68	666.94	11.74	57.823	
1,800.00	1,732.39	1,589.61	1,564.59	9.23	6.88	-156.76	92.39	-366.62	742.02	729.68	12.34	60.148	
1,900.00	1,818.11	1,659.78	1,632.77	10.21	7.26	-158.11	84.62	-381.26	808.78	795.83	12.94	62.487	
2,000.00	1,901.97	1,730.77	1,701.74	11.26	7.64	-159.35	76.52	-395.97	878.39	864.83	13.56	64.781	
2,100.00	1,983.88	1,802.69	1,771.74	12.38	8.02	-160.44	68.87	-410.62	950.45	936.26	14.19	66.989	
2,200.00	2,063.74	1,878.17	1,845.36	13.57	8.42	-161.45	61.49	-425.49	1,024.58	1,009.73	14.85	69.015	
2,300.00	2,141.45	1,949.48	1,915.11	14.84	8.78	-162.22	55.18	-438.96	1,100.55	1,085.07	15.47	71.119	
2,327.78	2,162.65	1,968.76	1,933.99	15.21	8.87	-162.39	53.77	-442.57	1,122.00	1,106.35	15.65	71.690	
2,400.00	2,217.51	2,013.27	1,977.62	16.17	9.09	-163.17	50.95	-450.89	1,177.93	1,161.88	16.05	73.381	
2,500.00	2,293.49	2,066.94	2,030.20	17.51	9.36	-164.01	47.73	-461.19	1,255.79	1,239.24	16.55	75.888	
2,600.00	2,369.47	2,117.77	2,079.92	18.86	9.61	-164.71	44.79	-471.31	1,334.18	1,317.16	17.02	78.373	
2,700.00	2,445.45	2,166.54	2,127.55	20.22	9.86	-165.30	42.24	-481.50	1,413.19	1,395.70	17.49	80.822	
2,800.00	2,521.42	2,218.80	2,178.51	21.59	10.13	-165.86	39.69	-492.83	1,492.70	1,474.72	17.98	83.036	
2,900.00	2,597.40	2,272.10	2,230.42	22.97	10.41	-166.39	36.90	-504.57	1,572.53	1,554.05	18.48	85.106	
3,000.00	2,673.38	2,329.60	2,286.39	24.34	10.71	-166.92	33.85	-517.37	1,652.56	1,633.55	19.01	86.909	
3,100.00	2,749.36	2,391.77	2,346.91	25.73	11.03	-167.42	30.76	-531.29	1,732.68	1,713.09	19.59	88.433	
3,200.00	2,825.33	2,463.56	2,416.86	27.11	11.41	-167.93	27.46	-547.06	1,812.53	1,792.28	20.25	89.497	
3,300.00	2,901.31	2,510.41	2,462.52	28.50	11.65	-168.25	25.04	-557.31	1,892.44	1,871.73	20.71	91.375	
3,400.00	2,977.29	2,559.41	2,510.19	29.90	11.91	-168.59	21.86	-568.16	1,972.75	1,951.56	21.18	93.120	
3,500.00	3,053.27	2,632.45	2,581.29	31.29	12.30	-169.08	16.73	-584.13	2,053.01	2,031.15	21.86	93.910	
3,600.00	3,129.24	2,699.32	2,646.44	32.69	12.65	-169.50	11.96	-598.35	2,132.98	2,110.49	22.49	94.850	
3,700.00	3,205.22	2,771.30	2,716.65	34.08	13.03	-169.92	6.64	-613.36	2,212.78	2,189.62	23.16	95.555	
3,800.00	3,281.20	2,853.17	2,796.65	35.48	13.45	-170.35	0.93	-629.79	2,292.07	2,268.16	23.91	95.866	
3,900.00	3,357.18	2,927.23	2,869.13	36.88	13.83	-170.71	-4.04	-644.18	2,370.95	2,346.36	24.60	96.392	
4,000.00	3,433.15	2,967.78	2,908.80	38.29	14.04	-170.89	-6.75	-652.12	2,449.95	2,424.94	25.01	97.952	
4,100.00	3,509.13	3,007.58	2,947.67	39.69	14.24	-171.06	-9.40	-660.25	2,529.47	2,504.05	25.42	99.509	
4,200.00	3,585.11	3,042.49	2,981.69	41.09	14.43	-171.20	-11.76	-667.67	2,609.52	2,583.74	25.79	101.198	
4,300.00	3,661.08	3,074.38	3,012.71	42.50	14.60	-171.32	-14.04	-674.75	2,690.19	2,664.07	26.13	102.968	
4,400.00	3,737.06	3,114.00	3,051.13	43.90	14.81	-171.48	-17.08	-683.93	2,771.49	2,744.95	26.53	104.458	
4,500.00	3,813.04	3,160.32	3,095.98	45.31	15.07	-171.65	-20.81	-694.87	2,853.12	2,826.13	27.00	105.681	
4,600.00	3,889.02	3,252.99	3,185.83	46.71	15.59	-171.99	-28.52	-716.24	2,934.61	2,906.74	27.87	105.309	
4,700.00	3,964.99	3,388.32	3,317.71	48.12	16.31	-172.46	-39.66	-744.46	3,014.69	2,985.60	29.09	103.623	
4,800.00	4,040.97	3,429.94	3,358.36	49.53	16.53	-172.59	-42.96	-752.75	3,094.26	3,064.74	29.52	104.812	
4,900.00	4,116.95	3,464.70	3,392.24	50.94	16.71	-172.70	-45.75	-759.96	3,174.32	3,144.43	29.89	106.192	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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	4,192.93	3,490.00	3,416.87	52.35	16.84	-172.77	-47.81	-765.38	3,254.88	3,224.70	30.18	107.849		
5,100.00	4,268.90	3,528.19	3,453.97	53.76	17.05	-172.88	-50.86	-773.89	3,335.90	3,305.32	30.58	109.088		
5,200.00	4,344.88	3,557.76	3,482.64	55.16	17.22	-172.95	-53.16	-780.79	3,417.44	3,386.54	30.90	110.580		
5,300.00	4,420.86	3,599.74	3,523.24	56.57	17.45	-173.05	-56.29	-791.00	3,499.45	3,468.11	31.34	111.664		
5,400.00	4,496.84	3,790.15	3,708.33	57.98	18.49	-173.45	-69.59	-833.56	3,580.04	3,546.97	33.07	108.251		
5,500.00	4,572.81	3,825.50	3,742.80	59.39	18.68	-173.53	-72.27	-840.92	3,660.11	3,626.66	33.45	109.414		
5,600.00	4,648.79	3,864.00	3,780.29	60.81	18.88	-173.61	-75.17	-849.21	3,740.58	3,706.73	33.86	110.474		
5,700.00	4,724.77	3,947.60	3,861.69	62.22	19.33	-173.79	-81.79	-867.08	3,821.08	3,786.42	34.66	110.249		
5,800.00	4,800.74	4,010.89	3,923.38	63.63	19.66	-173.92	-87.07	-880.19	3,901.26	3,865.97	35.28	110.576		
5,900.00	4,876.72	4,064.89	3,976.01	65.04	19.95	-174.03	-91.48	-891.42	3,981.45	3,945.63	35.83	111.136		
6,000.00	4,952.70	4,105.00	4,015.07	66.45	20.17	-174.11	-94.94	-899.85	4,061.87	4,025.62	36.25	112.053		
6,100.00	5,028.68	4,148.00	4,056.90	67.86	20.40	-174.20	-98.96	-908.99	4,142.57	4,105.87	36.70	112.881		
6,200.00	5,104.65	4,184.30	4,092.16	69.27	20.60	-174.28	-102.53	-916.82	4,223.55	4,186.45	37.09	113.871		
6,300.00	5,180.63	5,275.49	5,172.61	70.69	24.85	-175.69	-148.84	-1,029.53	4,288.84	4,243.39	45.45	94.357		
6,400.00	5,256.61	5,367.49	5,264.60	72.10	25.08	-175.79	-149.78	-1,029.04	4,353.61	4,307.38	46.24	94.159		
6,500.00	5,332.59	5,451.81	5,348.91	73.51	25.28	-175.88	-150.85	-1,028.27	4,418.19	4,371.21	46.97	94.060		
6,600.00	5,408.56	5,508.18	5,405.27	74.92	25.42	-175.94	-151.61	-1,027.80	4,482.84	4,435.31	47.54	94.299		
6,700.00	5,484.54	5,565.52	5,462.61	76.34	25.57	-175.99	-152.31	-1,027.65	4,547.87	4,499.76	48.11	94.527		
6,800.00	5,560.52	5,634.87	5,531.96	77.75	25.76	-176.05	-152.85	-1,027.74	4,613.08	4,564.32	48.77	94.594		
6,900.00	5,636.50	5,717.34	5,614.43	79.16	25.98	-176.11	-152.90	-1,028.06	4,678.31	4,628.80	49.51	94.495		
7,000.00	5,712.47	5,798.33	5,695.42	80.57	26.20	-176.16	-152.48	-1,028.41	4,743.42	4,693.19	50.24	94.421		
7,100.00	5,788.45	5,871.82	5,768.90	81.99	26.40	-176.20	-152.05	-1,028.70	4,808.50	4,757.59	50.92	94.439		
7,200.00	5,864.43	5,939.18	5,836.26	83.40	26.58	-176.24	-151.62	-1,029.07	4,873.68	4,822.12	51.56	94.528		
7,300.00	5,940.40	6,001.03	5,898.10	84.81	26.75	-176.27	-151.29	-1,029.55	4,939.04	4,886.87	52.17	94.680		
7,400.00	6,016.38	6,063.32	5,960.39	86.23	26.93	-176.30	-151.01	-1,030.19	5,004.61	4,951.83	52.78	94.823		
7,500.00	6,092.36	6,129.13	6,026.19	87.64	27.12	-176.34	-150.63	-1,031.08	5,070.37	5,016.95	53.42	94.923		
7,600.00	6,168.34	6,207.38	6,104.44	89.05	27.35	-176.37	-150.36	-1,032.10	5,136.16	5,082.02	54.14	94.870		
7,700.00	6,244.31	6,257.42	6,154.47	90.47	27.50	-176.40	-150.29	-1,032.83	5,202.11	5,147.44	54.67	95.153		
7,800.00	6,320.29	6,313.91	6,210.96	91.88	27.67	-176.43	-150.26	-1,033.93	5,268.41	5,213.17	55.25	95.362		
7,900.00	6,396.27	6,401.48	6,298.51	93.30	27.93	-176.47	-150.09	-1,035.66	5,334.72	5,278.68	56.04	95.195		
8,000.00	6,472.25	6,470.60	6,367.61	94.71	28.14	-176.50	-149.86	-1,037.02	5,400.99	5,344.29	56.71	95.247		
8,100.00	6,548.22	6,554.53	6,451.53	96.12	28.40	-176.53	-149.57	-1,038.66	5,467.25	5,409.78	57.47	95.125		
8,200.00	6,624.20	6,670.44	6,567.42	97.54	28.75	-176.59	-149.58	-1,040.25	5,533.21	5,474.74	58.47	94.636		
8,300.00	6,700.18	6,815.53	6,712.51	98.95	29.15	-176.68	-150.94	-1,039.85	5,598.05	5,538.41	59.64	93.862		
8,400.00	6,776.16	6,882.67	6,779.64	100.37	29.33	-176.72	-151.35	-1,039.47	5,662.76	5,602.48	60.28	93.935		
8,500.00	6,852.13	6,939.10	6,836.07	101.78	29.48	-176.76	-151.69	-1,039.34	5,727.70	5,666.84	60.86	94.119		
8,600.00	6,928.11	6,996.62	6,893.59	103.20	29.65	-176.79	-152.08	-1,039.38	5,792.89	5,731.45	61.44	94.285		
8,700.00	7,004.09	7,054.51	6,951.48	104.61	29.82	-176.82	-152.49	-1,039.61	5,858.31	5,796.28	62.03	94.446		
8,800.00	7,080.06	7,113.16	7,010.13	106.02	29.99	-176.85	-152.98	-1,040.00	5,923.96	5,861.33	62.62	94.596		
8,900.00	7,156.04	7,171.04	7,068.00	107.44	30.17	-176.88	-153.59	-1,040.52	5,989.82	5,926.61	63.21	94.755		
9,000.00	7,232.02	7,228.17	7,125.12	108.85	30.35	-176.91	-154.19	-1,041.20	6,055.91	5,992.11	63.80	94.921		
9,104.68	7,311.55	7,342.84	7,239.77	110.33	30.70	-176.97	-155.62	-1,042.37	6,125.01	6,060.21	64.80	94.515		
9,150.00	7,346.29	7,361.81	7,258.75	110.97	30.76	174.06	-155.93	-1,042.52	6,154.52	6,089.50	65.02	94.659		
9,200.00	7,385.15	7,390.96	7,287.89	111.65	30.85	164.15	-156.47	-1,042.75	6,186.15	6,120.84	65.31	94.725		
9,250.00	7,424.29	7,422.00	7,318.92	112.31	30.94	154.43	-157.13	-1,043.01	6,216.58	6,150.98	65.60	94.764		
9,300.00	7,463.40	7,700.44	7,597.28	112.93	31.73	146.00	-161.36	-1,040.17	6,244.52	6,176.94	67.58	92.400		
9,350.00	7,502.19	7,955.45	7,852.07	113.51	32.37	138.42	-158.01	-1,030.65	6,269.75	6,200.47	69.29	90.490		
9,400.00	7,540.36	9,400.00	7,879.51	114.04	35.97	130.66	-157.21	-1,029.23	6,292.38	6,218.56	73.82	85.238		
9,450.00	7,577.62	8,011.36	7,907.88	114.53	32.51	123.65	-156.51	-1,027.76	6,313.15	6,243.37	69.77	90.482		
9,500.00	7,613.70	8,026.43	7,922.94	114.95	32.55	117.35	-156.26	-1,027.02	6,332.02	6,262.10	69.92	90.561		
9,550.00	7,648.30	8,040.94	7,937.43	115.32	32.59	111.84	-156.11	-1,026.33	6,348.87	6,278.81	70.05	90.629		
9,600.00	7,681.18	8,077.00	7,973.45	115.63	32.68	107.24	-156.11	-1,024.71	6,363.67	6,293.36	70.32	90.499		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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		
9,650.00	7,712.08	8,077.00	7,973.45	115.88	32.68	103.11	-156.11	-1,024.71	6,376.09	6,305.75	70.34	90.642		
9,700.00	7,740.76	8,077.00	7,973.45	116.08	32.68	99.63	-156.11	-1,024.71	6,386.28	6,315.92	70.36	90.760		
9,750.00	7,767.01	8,077.00	7,973.45	116.23	32.68	96.75	-156.11	-1,024.71	6,394.19	6,323.81	70.38	90.850		
9,800.00	7,790.63	8,104.52	8,000.95	116.33	32.75	94.64	-156.45	-1,023.56	6,399.62	6,329.04	70.58	90.666		
9,850.00	7,811.44	8,114.80	8,011.22	116.38	32.78	92.92	-156.66	-1,023.14	6,402.70	6,332.02	70.68	90.593		
9,900.00	7,829.28	8,123.82	8,020.23	116.38	32.81	91.67	-156.87	-1,022.78	6,403.36	6,332.60	70.77	90.487		
9,950.00	7,844.01	8,131.49	8,027.89	116.35	32.83	90.87	-157.07	-1,022.48	6,401.62	6,330.77	70.86	90.347		
10,000.00	7,855.52	8,137.73	8,034.13	116.28	32.84	90.48	-157.25	-1,022.24	6,397.50	6,326.55	70.95	90.169		
10,050.00	7,863.72	8,142.47	8,038.86	116.18	32.86	90.51	-157.40	-1,022.06	6,391.04	6,319.99	71.05	89.950		
10,100.00	7,868.56	8,145.64	8,042.02	116.06	32.86	90.94	-157.50	-1,021.95	6,382.28	6,311.12	71.16	89.689		
10,145.94	7,870.00	8,164.00	8,060.36	115.92	32.91	91.84	-158.18	-1,021.27	6,372.31	6,300.92	71.39	89.263		
10,200.00	7,870.00	8,164.00	8,060.36	115.76	32.91	91.84	-158.18	-1,021.27	6,359.64	6,288.12	71.52	88.918		
10,300.00	7,870.00	8,164.00	8,060.36	115.46	32.91	91.84	-158.18	-1,021.27	6,337.37	6,265.56	71.81	88.257		
10,400.00	7,870.00	8,164.00	8,060.36	115.18	32.91	91.84	-158.18	-1,021.27	6,316.60	6,244.46	72.13	87.568		
10,500.00	7,870.00	8,164.00	8,060.36	114.91	32.91	91.84	-158.18	-1,021.27	6,297.35	6,224.84	72.50	86.855		
10,600.00	7,870.00	8,164.00	8,060.36	114.65	32.91	91.84	-158.18	-1,021.27	6,279.63	6,206.71	72.92	86.120		
10,700.00	7,870.00	8,164.00	8,060.36	114.41	32.91	91.84	-158.18	-1,021.27	6,263.46	6,190.08	73.37	85.366		
10,800.00	7,870.00	8,164.00	8,060.36	114.17	32.91	91.84	-158.18	-1,021.27	6,248.84	6,174.98	73.87	84.596		
10,900.00	7,870.00	8,164.00	8,060.36	113.95	32.91	91.84	-158.18	-1,021.27	6,235.80	6,161.40	74.40	83.813		
11,000.00	7,870.00	8,164.00	8,060.36	113.75	32.91	91.84	-158.18	-1,021.27	6,224.34	6,149.36	74.97	83.020		
11,100.00	7,870.00	8,169.30	8,065.65	113.55	32.93	91.89	-158.39	-1,021.08	6,214.46	6,138.84	75.62	82.179		
11,200.00	7,870.00	8,175.38	8,071.72	113.37	32.95	91.94	-158.64	-1,020.85	6,206.17	6,129.87	76.31	81.330		
11,300.00	7,870.00	8,181.50	8,077.83	113.20	32.96	92.00	-158.89	-1,020.63	6,199.49	6,122.46	77.03	80.483		
11,400.00	7,870.00	8,187.67	8,083.99	113.04	32.98	92.06	-159.14	-1,020.40	6,194.40	6,116.62	77.78	79.641		
11,500.00	7,870.00	8,193.89	8,090.20	112.89	33.00	92.11	-159.39	-1,020.16	6,190.93	6,112.37	78.56	78.807		
11,600.00	7,870.00	8,200.15	8,096.45	112.76	33.01	92.17	-159.65	-1,019.93	6,189.06	6,109.70	79.36	77.984		
11,665.83	7,870.00	8,204.30	8,100.59	112.68	33.03	92.21	-159.82	-1,019.77	6,188.71	6,108.80	79.91	77.443		
11,700.00	7,870.00	8,206.46	8,102.75	112.64	33.03	92.23	-159.91	-1,019.68	6,188.81	6,108.61	80.19	77.175		
11,800.00	7,870.00	8,212.81	8,109.09	112.53	33.05	92.29	-160.17	-1,019.44	6,190.16	6,109.12	81.04	76.381		
11,900.00	7,870.00	8,219.21	8,115.48	112.44	33.07	92.35	-160.44	-1,019.19	6,193.13	6,111.22	81.91	75.606		
12,000.00	7,870.00	8,225.66	8,121.92	112.36	33.08	92.41	-160.71	-1,018.93	6,197.70	6,114.90	82.80	74.852		
12,100.00	7,870.00	8,232.16	8,128.41	112.29	33.10	92.47	-160.98	-1,018.68	6,203.88	6,120.18	83.70	74.119		
12,200.00	7,870.00	8,238.71	8,134.95	112.24	33.12	92.53	-161.25	-1,018.41	6,211.66	6,127.04	84.62	73.409		
12,300.00	7,870.00	8,245.31	8,141.54	112.20	33.14	92.59	-161.53	-1,018.15	6,221.03	6,135.49	85.54	72.724		
12,400.00	7,870.00	8,251.96	8,148.17	112.17	33.16	92.65	-161.81	-1,017.87	6,231.99	6,145.51	86.48	72.065		
12,500.00	7,870.00	8,258.66	8,154.86	112.16	33.18	92.71	-162.10	-1,017.60	6,244.53	6,157.11	87.42	71.432		
12,600.00	7,870.00	8,265.41	8,161.60	112.17	33.19	92.77	-162.38	-1,017.32	6,258.63	6,170.27	88.37	70.827		
12,700.00	7,870.00	8,272.21	8,168.39	112.19	33.21	92.84	-162.68	-1,017.03	6,274.29	6,184.98	89.32	70.249		
12,800.00	7,870.00	8,266.40	8,162.59	112.23	33.20	92.78	-162.42	-1,017.28	6,291.52	6,201.34	90.18	69.766		
12,900.00	7,870.00	8,269.26	8,165.45	112.28	33.21	92.81	-162.55	-1,017.16	6,310.27	6,219.16	91.11	69.264		
13,000.00	7,870.00	8,272.12	8,168.30	112.36	33.21	92.84	-162.67	-1,017.05	6,330.54	6,238.51	92.03	68.789		
13,100.00	7,870.00	8,274.97	8,171.14	112.45	33.22	92.86	-162.79	-1,016.94	6,352.32	6,259.38	92.95	68.343		
13,200.00	7,870.00	8,277.80	8,173.97	112.56	33.23	92.89	-162.90	-1,016.82	6,375.60	6,281.73	93.86	67.925		
13,300.00	7,870.00	8,280.63	8,176.79	112.68	33.24	92.92	-163.02	-1,016.71	6,400.35	6,305.58	94.77	67.534		
13,400.00	7,870.00	8,283.44	8,179.60	112.83	33.24	92.94	-163.14	-1,016.60	6,426.56	6,330.88	95.67	67.171		
13,500.00	7,870.00	8,286.24	8,182.40	113.00	33.25	92.97	-163.26	-1,016.49	6,454.21	6,357.64	96.57	66.835		
13,600.00	7,870.00	8,289.03	8,185.18	113.19	33.26	92.99	-163.37	-1,016.38	6,483.28	6,385.83	97.45	66.526		
13,700.00	7,870.00	8,291.81	8,187.95	113.40	33.27	93.02	-163.49	-1,016.27	6,513.76	6,415.43	98.33	66.244		
13,800.00	7,870.00	8,294.57	8,190.72	113.63	33.28	93.04	-163.60	-1,016.16	6,545.62	6,446.42	99.19	65.988		
13,900.00	7,870.00	8,297.33	8,193.47	113.89	33.28	93.07	-163.72	-1,016.06	6,578.84	6,478.80	100.05	65.757		
14,000.00	7,870.00	8,300.07	8,196.21	114.18	33.29	93.10	-163.83	-1,015.95	6,613.41	6,512.53	100.89	65.552		
14,100.00	7,870.00	8,302.81	8,198.94	114.48	33.30	93.12	-163.94	-1,015.85	6,649.31	6,547.59	101.72	65.371		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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		
14,200.00	7,870.00	8,305.53	8,201.66	114.82	33.31	93.15	-164.05	-1,015.74	6,686.50	6,583.97	102.53	65.214		
14,300.00	7,870.00	8,308.25	8,204.37	115.18	33.31	93.17	-164.17	-1,015.64	6,724.97	6,621.64	103.33	65.081		
14,400.00	7,870.00	8,310.95	8,207.07	115.57	33.32	93.20	-164.28	-1,015.54	6,764.70	6,660.58	104.12	64.971		
14,500.00	7,870.00	8,313.64	8,209.76	115.99	33.33	93.22	-164.39	-1,015.44	6,805.67	6,700.78	104.89	64.884		
14,600.00	7,870.00	8,316.32	8,212.43	116.44	33.34	93.25	-164.50	-1,015.34	6,847.85	6,742.20	105.65	64.818		
14,700.00	7,870.00	8,318.99	8,215.10	116.92	33.34	93.27	-164.60	-1,015.24	6,891.22	6,784.83	106.39	64.774		
14,800.00	7,870.00	8,321.65	8,217.76	117.44	33.35	93.29	-164.71	-1,015.14	6,935.76	6,828.65	107.12	64.750		
14,900.00	7,870.00	8,324.30	8,220.40	117.98	33.36	93.32	-164.82	-1,015.04	6,981.45	6,873.62	107.83	64.747		
15,000.00	7,870.00	8,326.94	8,223.04	118.56	33.37	93.34	-164.93	-1,014.94	7,028.26	6,919.74	108.52	64.763		
15,100.00	7,870.00	8,329.57	8,225.66	119.17	33.37	93.37	-165.03	-1,014.85	7,076.18	6,966.97	109.20	64.799		
15,200.00	7,870.00	8,332.19	8,228.28	119.81	33.38	93.39	-165.14	-1,014.75	7,125.17	7,015.30	109.87	64.853		
15,300.00	7,870.00	8,334.80	8,230.89	120.48	33.39	93.42	-165.24	-1,014.66	7,175.22	7,064.71	110.52	64.925		
15,400.00	7,870.00	8,337.40	8,233.48	121.19	33.40	93.44	-165.35	-1,014.57	7,226.31	7,115.16	111.15	65.014		
15,500.00	7,870.00	8,339.99	8,236.07	121.93	33.40	93.46	-165.45	-1,014.47	7,278.41	7,166.65	111.77	65.121		
15,600.00	7,870.00	8,342.57	8,238.64	122.71	33.41	93.49	-165.55	-1,014.38	7,331.51	7,219.14	112.37	65.244		
15,700.00	7,870.00	8,345.14	8,241.21	123.52	33.42	93.51	-165.66	-1,014.29	7,385.57	7,272.61	112.96	65.383		
15,800.00	7,870.00	8,358.00	8,254.05	124.36	33.45	93.63	-166.17	-1,013.84	7,440.60	7,327.01	113.58	65.507		
15,900.00	7,870.00	8,358.00	8,254.05	125.23	33.45	93.63	-166.17	-1,013.84	7,496.54	7,382.41	114.13	65.685		
16,000.00	7,870.00	8,358.00	8,254.05	126.14	33.45	93.63	-166.17	-1,013.84	7,553.39	7,438.73	114.66	65.877		
16,100.00	7,870.00	8,358.00	8,254.05	127.07	33.45	93.63	-166.17	-1,013.84	7,611.12	7,495.95	115.18	66.083		
16,200.00	7,870.00	8,358.00	8,254.05	128.04	33.45	93.63	-166.17	-1,013.84	7,669.73	7,554.05	115.68	66.302		
16,300.00	7,870.00	8,358.00	8,254.05	129.04	33.45	93.63	-166.17	-1,013.84	7,729.19	7,613.02	116.17	66.535		
16,400.00	7,870.00	8,358.00	8,254.05	130.06	33.45	93.63	-166.17	-1,013.84	7,789.47	7,672.83	116.64	66.780		
16,500.00	7,870.00	8,366.16	8,262.20	131.11	33.48	93.71	-166.49	-1,013.57	7,850.57	7,733.42	117.14	67.016		
16,600.00	7,870.00	8,368.87	8,264.91	132.19	33.48	93.73	-166.59	-1,013.47	7,912.45	7,794.84	117.61	67.278		
16,700.00	7,870.00	8,371.56	8,267.60	133.29	33.49	93.76	-166.70	-1,013.38	7,975.11	7,857.05	118.06	67.553		
16,800.00	7,870.00	8,374.22	8,270.25	134.42	33.50	93.78	-166.80	-1,013.29	8,038.52	7,920.03	118.49	67.839		
16,900.00	7,870.00	8,376.86	8,272.88	135.57	33.51	93.81	-166.90	-1,013.20	8,102.67	7,983.75	118.92	68.136		
17,000.00	7,870.00	8,379.46	8,275.48	136.75	33.51	93.83	-167.00	-1,013.11	8,167.54	8,048.20	119.33	68.444		
17,100.00	7,870.00	8,382.04	8,278.06	137.94	33.52	93.85	-167.10	-1,013.02	8,233.11	8,113.37	119.73	68.763		
17,200.00	7,870.00	8,384.59	8,280.61	139.16	33.53	93.88	-167.19	-1,012.93	8,299.36	8,179.24	120.12	69.091		
17,300.00	7,870.00	8,387.12	8,283.13	140.39	33.53	93.90	-167.29	-1,012.85	8,366.29	8,245.79	120.50	69.430		
17,400.00	7,870.00	8,389.62	8,285.63	141.65	33.54	93.92	-167.38	-1,012.76	8,433.87	8,313.00	120.87	69.778		
17,500.00	7,870.00	8,392.09	8,288.10	142.92	33.55	93.95	-167.47	-1,012.68	8,502.08	8,380.86	121.22	70.135		
17,600.00	7,870.00	8,394.54	8,290.54	144.21	33.56	93.97	-167.56	-1,012.60	8,570.92	8,449.35	121.57	70.501		
17,700.00	7,870.00	8,396.97	8,292.97	145.52	33.56	93.99	-167.65	-1,012.51	8,640.37	8,518.46	121.91	70.876		
17,800.00	7,870.00	8,399.37	8,295.36	146.84	33.57	94.01	-167.74	-1,012.43	8,710.41	8,588.18	122.23	71.260		
17,900.00	7,870.00	8,401.74	8,297.74	148.18	33.58	94.04	-167.82	-1,012.35	8,781.03	8,658.48	122.55	71.651		
18,000.00	7,870.00	8,404.10	8,300.09	149.54	33.58	94.06	-167.91	-1,012.27	8,852.22	8,729.36	122.86	72.051		
18,100.00	7,870.00	8,406.42	8,302.41	150.90	33.59	94.08	-167.99	-1,012.19	8,923.95	8,800.79	123.16	72.458		
18,200.00	7,870.00	8,408.73	8,304.72	152.28	33.60	94.10	-168.07	-1,012.11	8,996.23	8,872.78	123.45	72.873		
18,300.00	7,870.00	8,411.02	8,307.00	153.67	33.60	94.12	-168.16	-1,012.04	9,069.03	8,945.30	123.73	73.295		
18,400.00	7,870.00	8,413.28	8,309.26	155.07	33.61	94.14	-168.24	-1,011.96	9,142.35	9,018.34	124.01	73.724		
18,500.00	7,870.00	8,415.52	8,311.49	156.49	33.61	94.16	-168.31	-1,011.88	9,216.16	9,091.89	124.27	74.160		
18,600.00	7,870.00	8,417.74	8,313.71	157.91	33.62	94.18	-168.39	-1,011.81	9,290.47	9,165.93	124.53	74.603		
18,700.00	7,870.00	8,419.93	8,315.90	159.35	33.63	94.20	-168.47	-1,011.73	9,365.25	9,240.46	124.78	75.052		
18,800.00	7,870.00	8,422.11	8,318.08	160.79	33.63	94.22	-168.54	-1,011.66	9,440.50	9,315.47	125.03	75.507		
18,900.00	7,870.00	8,424.27	8,320.23	162.25	33.64	94.24	-168.62	-1,011.59	9,516.20	9,390.94	125.27	75.968		
19,000.00	7,870.00	8,426.40	8,322.36	163.71	33.64	94.26	-168.69	-1,011.51	9,592.35	9,466.85	125.50	76.436		
19,100.00	7,870.00	8,428.52	8,324.48	165.18	33.65	94.28	-168.76	-1,011.44	9,668.93	9,543.21	125.72	76.909		
19,200.00	7,870.00	8,430.61	8,326.57	166.66	33.66	94.30	-168.84	-1,011.37	9,745.93	9,620.00	125.94	77.387		
19,300.00	7,870.00	8,444.00	8,339.94	168.15	33.69	94.43	-169.28	-1,010.92	9,823.36	9,697.17	126.19	77.844		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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	
19,400.00	7,870.00	8,444.00	8,339.94	169.65	33.69	94.43	-169.28	-1,010.92	9,901.18	9,774.79	126.39	78.338	
19,500.00	7,870.00	8,444.00	8,339.94	171.15	33.69	94.43	-169.28	-1,010.92	9,979.40	9,852.81	126.58	78.837	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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	-40.13	218.57	-184.24	285.98					
100.00	100.00	90.76	90.75	0.13	0.15	-40.02	219.07	-183.96	286.07	285.78	0.28	1,012.433 ES		
200.00	200.00	183.36	183.33	0.49	0.39	-39.72	220.87	-183.51	287.29	286.40	0.89	324.183		
300.00	300.00	271.02	270.86	0.85	0.71	-39.50	225.10	-185.55	292.49	290.91	1.57	185.983		
400.00	399.98	359.62	359.08	1.21	1.04	-107.83	231.05	-191.04	302.13	299.88	2.25	134.316		
500.00	499.84	448.18	446.94	1.56	1.39	-108.52	239.05	-198.81	316.33	313.40	2.93	107.826		
600.00	599.45	535.94	533.60	1.93	1.76	-109.51	249.26	-208.13	334.95	331.34	3.62	92.573		
700.00	698.70	621.62	617.75	2.32	2.15	-110.60	261.57	-218.49	357.96	353.65	4.31	83.113		
800.00	797.47	703.95	698.02	2.72	2.55	-111.75	275.68	-230.10	385.83	380.83	5.00	77.235		
900.00	895.62	784.93	776.37	3.16	2.98	-113.01	291.07	-243.57	418.43	412.73	5.69	73.488		
1,000.00	993.06	861.02	849.32	3.63	3.41	-114.17	307.22	-257.97	455.94	449.56	6.39	71.387		
1,100.00	1,089.64	941.19	925.50	4.14	3.89	-115.39	325.84	-274.57	497.89	490.76	7.13	69.827		
1,200.00	1,185.27	1,031.96	1,011.57	4.70	4.46	-116.88	347.15	-294.03	542.56	534.59	7.97	68.058		
1,300.00	1,279.82	1,110.96	1,086.45	5.31	4.96	-118.02	365.78	-310.97	589.40	580.62	8.77	67.191		
1,400.00	1,373.17	1,193.03	1,163.96	5.97	5.49	-119.12	386.01	-328.79	639.12	629.48	9.63	66.351		
1,500.00	1,465.21	1,273.00	1,239.37	6.69	6.02	-120.07	406.31	-346.01	691.20	680.69	10.52	65.733		
1,600.00	1,555.84	1,345.48	1,307.56	7.47	6.51	-120.77	424.96	-361.97	745.98	734.61	11.38	65.576 SF		
1,700.00	1,644.94	1,410.82	1,368.63	8.31	6.97	-121.18	442.70	-376.96	804.14	791.93	12.21	65.862		
1,800.00	1,732.39	1,475.23	1,428.37	9.23	7.44	-121.42	461.45	-392.12	865.53	852.45	13.07	66.197		
1,900.00	1,818.11	1,530.66	1,479.36	10.21	7.86	-121.31	478.57	-405.52	930.02	916.13	13.89	66.970		
2,000.00	1,901.97	1,578.58	1,523.07	11.26	8.23	-120.95	493.61	-418.11	998.02	983.37	14.65	68.135		
2,100.00	1,983.88	1,643.81	1,582.28	12.38	8.75	-120.98	514.12	-436.25	1,068.89	1,053.28	15.62	68.449		
2,200.00	2,063.74	1,710.97	1,643.44	13.57	9.29	-121.03	534.83	-454.72	1,141.24	1,124.60	16.63	68.607		
2,300.00	2,141.45	1,767.53	1,694.96	14.84	9.75	-120.73	551.99	-470.51	1,215.52	1,197.96	17.56	69.215		
2,327.78	2,162.65	1,782.70	1,708.78	15.21	9.87	-120.62	556.56	-474.80	1,236.52	1,218.71	17.82	69.397		
2,400.00	2,217.51	1,821.57	1,744.18	16.17	10.18	-121.73	568.15	-485.92	1,291.52	1,273.05	18.47	69.922		
2,500.00	2,293.49	1,874.68	1,792.55	17.51	10.61	-123.16	583.70	-501.38	1,368.34	1,348.98	19.36	70.685		
2,600.00	2,369.47	1,930.22	1,843.09	18.86	11.07	-124.53	599.90	-517.75	1,445.79	1,425.53	20.27	71.339		
2,700.00	2,445.45	1,992.73	1,899.92	20.22	11.58	-125.93	618.29	-536.19	1,523.70	1,502.45	21.25	71.692		
2,800.00	2,521.42	2,074.95	1,974.91	21.59	12.24	-127.57	642.39	-559.72	1,601.40	1,578.93	22.47	71.260		
2,900.00	2,597.40	2,176.36	2,068.23	22.97	13.04	-129.37	671.47	-586.75	1,677.99	1,654.08	23.91	70.186		
3,000.00	2,673.38	2,254.17	2,140.20	24.34	13.63	-130.59	693.62	-606.34	1,753.92	1,728.86	25.06	69.983		
3,100.00	2,749.36	2,323.26	2,204.18	25.73	14.15	-131.56	713.42	-623.29	1,829.67	1,803.56	26.12	70.062		
3,200.00	2,825.33	2,383.56	2,260.07	27.11	14.60	-132.35	730.69	-637.95	1,905.48	1,878.42	27.06	70.414		
3,300.00	2,901.31	2,441.44	2,313.76	28.50	15.04	-133.07	746.90	-652.27	1,981.63	1,953.66	27.97	70.845		
3,400.00	2,977.29	2,512.53	2,379.77	29.90	15.57	-133.90	766.58	-669.81	2,057.86	2,028.83	29.03	70.887		
3,500.00	3,053.27	2,578.77	2,441.35	31.29	16.06	-134.62	784.94	-685.94	2,134.01	2,103.98	30.03	71.060		
3,600.00	3,129.24	2,642.22	2,500.28	32.69	16.54	-135.25	802.78	-701.27	2,210.23	2,179.23	31.00	71.300		
3,700.00	3,205.22	2,702.58	2,556.34	34.08	16.99	-135.82	819.69	-715.91	2,286.60	2,254.67	31.93	71.618		
3,800.00	3,281.20	2,762.38	2,611.91	35.48	17.43	-136.35	836.24	-730.50	2,363.13	2,330.29	32.84	71.952		
3,900.00	3,357.18	2,824.24	2,669.46	36.88	17.89	-136.89	853.08	-745.73	2,439.83	2,406.06	33.78	72.232		
4,000.00	3,433.15	2,894.37	2,734.81	38.29	18.41	-137.46	871.85	-762.91	2,516.51	2,481.71	34.81	72.302		
4,100.00	3,509.13	2,961.87	2,797.83	39.69	18.90	-138.00	889.59	-779.33	2,593.11	2,557.32	35.79	72.447		
4,200.00	3,585.11	3,022.88	2,854.89	41.09	19.34	-138.46	905.32	-794.15	2,669.72	2,633.02	36.70	72.749		
4,300.00	3,661.08	3,077.48	2,905.94	42.50	19.73	-138.86	919.28	-807.55	2,746.55	2,709.03	37.52	73.202		
4,400.00	3,737.06	3,133.98	2,958.68	43.90	20.15	-139.25	933.94	-821.53	2,823.62	2,785.24	38.37	73.586		
4,500.00	3,813.04	3,193.89	3,014.36	45.31	20.59	-139.61	950.38	-836.34	2,900.85	2,861.58	39.27	73.864		
4,600.00	3,889.02	3,269.16	3,084.20	46.71	21.16	-140.03	971.61	-854.71	2,977.99	2,937.62	40.38	73.752		
4,700.00	3,964.99	3,316.22	3,127.84	48.12	21.51	-140.27	984.95	-866.18	3,055.18	3,014.06	41.13	74.287		
4,800.00	4,040.97	3,359.75	3,168.18	49.53	21.84	-140.49	997.19	-877.06	3,132.79	3,090.96	41.83	74.899		
4,900.00	4,116.95	3,432.42	3,235.52	50.94	22.39	-140.85	1,017.44	-895.40	3,210.57	3,167.67	42.90	74.846		
5,000.00	4,192.93	3,504.27	3,302.23	52.35	22.93	-141.19	1,037.28	-913.24	3,288.09	3,244.14	43.95	74.812		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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	4,268.90	3,570.48	3,363.78	53.76	23.43	-141.49	1,055.41	-929.59	3,365.56	3,320.63	44.93	74.905		
5,200.00	4,344.88	3,636.74	3,425.44	55.16	23.92	-141.79	1,073.31	-945.91	3,442.99	3,397.08	45.91	75.000		
5,300.00	4,420.86	3,711.87	3,495.48	56.57	24.47	-142.11	1,093.36	-964.29	3,520.32	3,473.33	46.99	74.918		
5,400.00	4,496.84	3,859.46	3,633.87	57.98	25.52	-142.73	1,131.76	-998.26	3,596.55	3,547.60	48.95	73.472		
5,500.00	4,572.81	3,897.15	3,669.26	59.39	25.79	-142.87	1,141.61	-1,006.70	3,672.55	3,622.99	49.56	74.099		
5,600.00	4,648.79	3,930.00	3,700.00	60.81	26.02	-142.99	1,150.39	-1,014.25	3,749.04	3,698.93	50.11	74.814		
5,700.00	4,724.77	3,962.30	3,730.12	62.22	26.26	-143.11	1,159.18	-1,021.92	3,826.07	3,775.42	50.66	75.530		
5,800.00	4,800.74	3,990.60	3,756.42	63.63	26.47	-143.20	1,166.95	-1,028.89	3,903.69	3,852.55	51.15	76.325		
5,900.00	4,876.72	4,023.00	3,786.44	65.04	26.71	-143.31	1,175.93	-1,037.15	3,981.88	3,930.20	51.68	77.042		
6,000.00	4,952.70	4,048.85	3,810.33	66.45	26.91	-143.39	1,183.10	-1,043.95	4,060.58	4,008.44	52.13	77.887		
6,100.00	5,028.68	4,079.50	3,838.62	67.86	27.15	-143.49	1,191.49	-1,052.22	4,139.75	4,087.10	52.64	78.637		
6,200.00	5,104.65	4,117.00	3,873.19	69.27	27.44	-143.61	1,201.62	-1,062.64	4,219.38	4,166.14	53.24	79.251		
6,300.00	5,180.63	4,149.18	3,902.81	70.69	27.70	-143.71	1,210.29	-1,071.76	4,299.38	4,245.61	53.77	79.965		
6,400.00	5,256.61	4,191.84	3,941.99	72.10	28.04	-143.84	1,221.93	-1,083.98	4,379.63	4,325.20	54.43	80.461		
6,500.00	5,332.59	4,304.00	4,045.10	73.51	28.93	-144.16	1,252.78	-1,115.53	4,459.54	4,403.50	56.04	79.574		
6,600.00	5,408.56	4,341.53	4,079.71	74.92	29.22	-144.26	1,262.94	-1,125.89	4,539.25	4,482.61	56.64	80.145		
6,700.00	5,484.54	4,365.92	4,102.16	76.34	29.41	-144.33	1,269.46	-1,132.86	4,619.47	4,562.41	57.05	80.966		
6,800.00	5,560.52	4,397.00	4,130.71	77.75	29.66	-144.42	1,277.65	-1,141.99	4,700.16	4,642.60	57.56	81.661		
6,900.00	5,636.50	4,427.93	4,159.06	79.16	29.91	-144.50	1,285.83	-1,151.26	4,781.20	4,723.14	58.06	82.349		
7,000.00	5,712.47	4,472.28	4,199.59	80.57	30.27	-144.62	1,297.92	-1,164.62	4,862.45	4,803.70	58.75	82.766		
7,100.00	5,788.45	4,770.00	4,473.79	81.99	32.61	-145.29	1,380.37	-1,245.95	4,940.55	4,877.66	62.88	78.565		
7,200.00	5,864.43	4,813.07	4,513.56	83.40	32.94	-145.37	1,392.73	-1,256.89	5,018.99	4,955.41	63.58	78.945		
7,300.00	5,940.40	4,842.19	4,540.34	84.81	33.17	-145.42	1,401.27	-1,264.50	5,097.86	5,033.79	64.08	79.559		
7,400.00	6,016.38	4,864.00	4,560.35	86.23	33.34	-145.45	1,407.75	-1,270.31	5,177.14	5,112.66	64.47	80.297		
7,500.00	6,092.36	6,078.37	5,728.76	87.64	40.06	-149.01	1,626.42	-1,480.43	5,253.77	5,176.99	76.78	68.423		
7,600.00	6,168.34	6,483.63	6,133.62	89.05	40.96	-150.78	1,631.86	-1,493.48	5,314.79	5,235.79	79.00	67.279		
7,700.00	6,244.31	6,531.08	6,181.07	90.47	41.05	-150.98	1,632.05	-1,493.84	5,375.31	5,295.77	79.54	67.576		
7,800.00	6,320.29	6,581.41	6,231.41	91.88	41.15	-151.19	1,632.42	-1,494.48	5,436.33	5,356.22	80.10	67.866		
7,900.00	6,396.27	6,641.00	6,290.98	93.30	41.28	-151.43	1,633.01	-1,495.51	5,497.78	5,417.08	80.70	68.126		
8,000.00	6,472.25	6,892.70	6,542.64	94.71	41.77	-152.41	1,634.70	-1,495.87	5,558.12	5,476.01	82.11	67.693		
8,100.00	6,548.22	6,947.96	6,597.90	96.12	41.87	-152.62	1,634.80	-1,495.19	5,617.56	5,534.88	82.68	67.945		
8,200.00	6,624.20	7,002.10	6,652.04	97.54	41.97	-152.82	1,634.70	-1,494.74	5,677.40	5,594.17	83.23	68.210		
8,300.00	6,700.18	7,052.07	6,702.01	98.95	42.06	-153.01	1,634.46	-1,494.53	5,737.67	5,653.90	83.77	68.495		
8,400.00	6,776.16	7,110.00	6,759.94	100.37	42.17	-153.23	1,634.07	-1,494.60	5,798.41	5,714.08	84.33	68.761		
8,500.00	6,852.13	7,150.97	6,800.91	101.78	42.25	-153.38	1,633.78	-1,494.83	5,859.56	5,774.75	84.81	69.088		
8,600.00	6,928.11	7,203.00	6,852.93	103.20	42.35	-153.57	1,633.51	-1,495.31	5,921.14	5,835.80	85.34	69.382		
8,700.00	7,004.09	7,253.99	6,903.92	104.61	42.45	-153.75	1,633.28	-1,496.00	5,983.10	5,897.24	85.86	69.682		
8,800.00	7,080.06	7,305.61	6,955.53	106.02	42.55	-153.94	1,633.01	-1,496.88	6,045.44	5,959.06	86.38	69.984		
8,900.00	7,156.04	7,356.94	7,006.85	107.44	42.66	-154.12	1,632.71	-1,497.96	6,108.16	6,021.26	86.90	70.290		
9,000.00	7,232.02	7,455.72	7,105.60	108.85	42.87	-154.46	1,631.99	-1,500.21	6,171.14	6,083.50	87.63	70.419		
9,104.68	7,311.55	7,532.19	7,182.05	110.33	43.02	-154.72	1,631.15	-1,501.55	6,236.70	6,148.43	88.27	70.654		
9,150.00	7,346.29	7,557.04	7,206.90	110.97	43.07	-163.70	1,630.82	-1,502.04	6,265.36	6,176.86	88.50	70.798		
9,200.00	7,385.15	7,577.00	7,226.85	111.65	43.11	-173.98	1,630.53	-1,502.46	6,297.29	6,208.60	88.69	71.007		
9,250.00	7,424.29	7,577.00	7,226.85	112.31	43.11	175.55	1,630.53	-1,502.46	6,329.42	6,240.67	88.75	71.318		
9,300.00	7,463.40	8,065.94	7,715.38	112.93	44.09	165.93	1,626.07	-1,499.00	6,359.51	6,268.54	90.97	69.908		
9,350.00	7,502.19	8,094.26	7,743.68	113.51	44.14	156.45	1,625.87	-1,497.86	6,388.35	6,297.22	91.12	70.105		
9,400.00	7,540.36	8,122.05	7,771.45	114.04	44.19	147.51	1,625.72	-1,496.79	6,416.60	6,325.35	91.25	70.319		
9,450.00	7,577.62	8,152.33	7,801.71	114.53	44.25	139.26	1,625.60	-1,495.68	6,444.08	6,352.72	91.36	70.535		
9,500.00	7,613.70	8,186.00	7,835.36	114.95	44.31	131.78	1,625.56	-1,494.48	6,470.57	6,379.10	91.46	70.744		
9,550.00	7,648.30	8,218.17	7,867.51	115.32	44.37	125.10	1,625.61	-1,493.34	6,495.89	6,404.34	91.54	70.958		
9,600.00	7,681.18	8,252.23	7,901.55	115.63	44.44	119.21	1,625.75	-1,492.16	6,519.88	6,428.26	91.62	71.161		
9,650.00	7,712.08	8,287.01	7,936.31	115.88	44.51	114.06	1,625.95	-1,490.94	6,542.40	6,450.70	91.69	71.352		

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,700.00	7,740.76	8,319.21	7,968.48	116.08	44.57	109.60	1,626.16	-1,489.79	6,563.30	6,471.55	91.75	71.537		
9,750.00	7,767.01	8,341.80	7,991.05	116.23	44.62	105.71	1,626.33	-1,488.99	6,582.50	6,490.74	91.76	71.737		
9,800.00	7,790.63	8,360.19	8,009.44	116.33	44.65	102.36	1,626.48	-1,488.35	6,599.91	6,508.15	91.76	71.929		
9,850.00	7,811.44	8,376.30	8,025.54	116.38	44.69	99.55	1,626.62	-1,487.80	6,615.44	6,523.69	91.75	72.102		
9,900.00	7,829.28	8,390.02	8,039.25	116.38	44.71	97.21	1,626.74	-1,487.35	6,629.02	6,537.27	91.75	72.252		
9,950.00	7,844.01	8,401.25	8,050.47	116.35	44.74	95.32	1,626.85	-1,486.98	6,640.56	6,548.81	91.75	72.375		
10,000.00	7,855.52	8,409.92	8,059.13	116.28	44.76	93.85	1,626.93	-1,486.70	6,650.02	6,558.25	91.76	72.469		
10,050.00	7,863.72	8,419.00	8,068.21	116.18	44.77	92.81	1,627.02	-1,486.41	6,657.33	6,565.53	91.80	72.519		
10,100.00	7,868.56	8,419.00	8,068.21	116.06	44.77	92.09	1,627.02	-1,486.41	6,662.46	6,570.64	91.82	72.559		
10,145.94	7,870.00	8,419.00	8,068.21	115.92	44.77	91.77	1,627.02	-1,486.41	6,665.23	6,573.36	91.87	72.554		
10,200.00	7,870.00	8,419.00	8,068.21	115.76	44.77	91.77	1,627.02	-1,486.41	6,667.60	6,575.66	91.93	72.525		
10,300.00	7,870.00	8,419.00	8,068.21	115.46	44.77	91.77	1,627.02	-1,486.41	6,673.14	6,581.05	92.08	72.469		
10,400.00	7,870.00	8,419.00	8,068.21	115.18	44.77	91.77	1,627.02	-1,486.41	6,680.17	6,587.92	92.25	72.412		
10,500.00	7,870.00	8,419.00	8,068.21	114.91	44.77	91.77	1,627.02	-1,486.41	6,688.69	6,596.24	92.44	72.355		
10,600.00	7,870.00	8,419.00	8,068.21	114.65	44.77	91.77	1,627.02	-1,486.41	6,698.69	6,606.03	92.65	72.298		
10,700.00	7,870.00	8,419.00	8,068.21	114.41	44.77	91.77	1,627.02	-1,486.41	6,710.16	6,617.28	92.89	72.242		
10,800.00	7,870.00	8,419.00	8,068.21	114.17	44.77	91.77	1,627.02	-1,486.41	6,723.11	6,629.97	93.13	72.187		
10,900.00	7,870.00	8,419.00	8,068.21	113.95	44.77	91.77	1,627.02	-1,486.41	6,737.51	6,644.11	93.40	72.135		
11,000.00	7,870.00	8,413.68	8,062.89	113.75	44.76	91.73	1,626.97	-1,486.58	6,753.36	6,659.70	93.66	72.106		
11,100.00	7,870.00	8,412.94	8,062.15	113.55	44.76	91.72	1,626.96	-1,486.60	6,770.66	6,676.70	93.95	72.063		
11,200.00	7,870.00	8,412.20	8,061.41	113.37	44.76	91.72	1,626.95	-1,486.63	6,789.38	6,695.11	94.26	72.025		
11,300.00	7,870.00	8,411.46	8,060.68	113.20	44.76	91.71	1,626.95	-1,486.65	6,809.52	6,714.93	94.59	71.991		
11,400.00	7,870.00	8,410.73	8,059.95	113.04	44.76	91.70	1,626.94	-1,486.67	6,831.06	6,736.14	94.92	71.963		
11,500.00	7,870.00	8,410.00	8,059.22	112.89	44.76	91.70	1,626.93	-1,486.70	6,854.00	6,758.72	95.27	71.941		
11,600.00	7,870.00	8,409.27	8,058.49	112.76	44.75	91.69	1,626.93	-1,486.72	6,878.31	6,782.68	95.63	71.926		
11,700.00	7,870.00	8,408.55	8,057.77	112.64	44.75	91.68	1,626.92	-1,486.74	6,903.98	6,807.99	96.00	71.917		
11,800.00	7,870.00	8,407.83	8,057.05	112.53	44.75	91.68	1,626.91	-1,486.77	6,931.01	6,834.63	96.38	71.917		
11,900.00	7,870.00	8,407.11	8,056.33	112.44	44.75	91.67	1,626.90	-1,486.79	6,959.36	6,862.60	96.76	71.924		
12,000.00	7,870.00	8,406.40	8,055.61	112.36	44.75	91.67	1,626.90	-1,486.81	6,989.03	6,891.88	97.15	71.939		
12,100.00	7,870.00	8,405.68	8,054.90	112.29	44.75	91.66	1,626.89	-1,486.84	7,020.00	6,922.45	97.55	71.963		
12,200.00	7,870.00	8,404.97	8,054.19	112.24	44.74	91.65	1,626.88	-1,486.86	7,052.26	6,954.30	97.95	71.996		
12,300.00	7,870.00	8,404.27	8,053.49	112.20	44.74	91.65	1,626.88	-1,486.88	7,085.77	6,987.41	98.36	72.038		
12,400.00	7,870.00	8,403.56	8,052.78	112.17	44.74	91.64	1,626.87	-1,486.90	7,120.54	7,021.76	98.77	72.089		
12,500.00	7,870.00	8,402.86	8,052.08	112.16	44.74	91.64	1,626.86	-1,486.93	7,156.53	7,057.34	99.19	72.150		
12,600.00	7,870.00	8,402.16	8,051.38	112.17	44.74	91.63	1,626.86	-1,486.95	7,193.73	7,094.12	99.61	72.221		
12,700.00	7,870.00	8,401.47	8,050.69	112.19	44.74	91.62	1,626.85	-1,486.97	7,232.12	7,132.09	100.03	72.301		
12,800.00	7,870.00	8,400.77	8,050.00	112.23	44.74	91.62	1,626.84	-1,486.99	7,271.69	7,171.24	100.45	72.391		
12,900.00	7,870.00	8,400.08	8,049.31	112.28	44.74	91.61	1,626.84	-1,487.02	7,312.41	7,211.53	100.87	72.492		
13,000.00	7,870.00	8,399.40	8,048.62	112.36	44.73	91.61	1,626.83	-1,487.04	7,354.26	7,252.96	101.30	72.602		
13,100.00	7,870.00	8,398.71	8,047.93	112.45	44.73	91.60	1,626.82	-1,487.06	7,397.23	7,295.51	101.72	72.722		
13,200.00	7,870.00	8,398.03	8,047.25	112.56	44.73	91.59	1,626.82	-1,487.08	7,441.29	7,339.15	102.14	72.853		
13,300.00	7,870.00	8,397.35	8,046.57	112.68	44.73	91.59	1,626.81	-1,487.11	7,486.43	7,383.87	102.56	72.993		
13,400.00	7,870.00	8,396.67	8,045.90	112.83	44.73	91.58	1,626.81	-1,487.13	7,532.63	7,429.65	102.98	73.143		
13,500.00	7,870.00	8,396.00	8,045.22	113.00	44.73	91.58	1,626.80	-1,487.15	7,579.87	7,476.46	103.40	73.304		
13,600.00	7,870.00	8,395.33	8,044.55	113.19	44.73	91.57	1,626.79	-1,487.17	7,628.12	7,524.30	103.82	73.474		
13,700.00	7,870.00	8,394.66	8,043.88	113.40	44.72	91.56	1,626.79	-1,487.19	7,677.37	7,573.14	104.24	73.654		
13,800.00	7,870.00	8,393.99	8,043.22	113.63	44.72	91.56	1,626.78	-1,487.22	7,727.60	7,622.96	104.65	73.844		
13,900.00	7,870.00	8,393.33	8,042.55	113.89	44.72	91.55	1,626.77	-1,487.24	7,778.80	7,673.74	105.06	74.043		
14,000.00	7,870.00	8,392.66	8,041.89	114.18	44.72	91.55	1,626.77	-1,487.26	7,830.94	7,725.47	105.46	74.252		
14,100.00	7,870.00	8,392.01	8,041.23	114.48	44.72	91.54	1,626.76	-1,487.28	7,884.00	7,778.13	105.87	74.470		
14,200.00	7,870.00	8,391.35	8,040.58	114.82	44.72	91.54	1,626.76	-1,487.30	7,937.96	7,831.69	106.27	74.697		
14,300.00	7,870.00	8,390.70	8,039.92	115.18	44.72	91.53	1,626.75	-1,487.32	7,992.81	7,886.15	106.67	74.933		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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		
14,400.00	7,870.00	8,390.04	8,039.27	115.57	44.71	91.53	1,626.74	-1,487.34	8,048.53	7,941.47	107.06	75.178		
14,500.00	7,870.00	8,389.39	8,038.62	115.99	44.71	91.52	1,626.74	-1,487.37	8,105.10	7,997.66	107.45	75.432		
14,600.00	7,870.00	8,388.75	8,037.98	116.44	44.71	91.51	1,626.73	-1,487.39	8,162.51	8,054.67	107.83	75.695		
14,700.00	7,870.00	8,388.10	8,037.33	116.92	44.71	91.51	1,626.73	-1,487.41	8,220.73	8,112.51	108.22	75.966		
14,800.00	7,870.00	8,387.46	8,036.69	117.44	44.71	91.50	1,626.72	-1,487.43	8,279.75	8,171.15	108.59	76.246		
14,900.00	7,870.00	8,386.82	8,036.05	117.98	44.71	91.50	1,626.71	-1,487.45	8,339.55	8,230.58	108.97	76.534		
15,000.00	7,870.00	8,386.19	8,035.42	118.56	44.71	91.49	1,626.71	-1,487.47	8,400.11	8,290.78	109.33	76.829		
15,100.00	7,870.00	8,385.55	8,034.78	119.17	44.71	91.49	1,626.70	-1,487.49	8,461.42	8,351.72	109.70	77.133		
15,200.00	7,870.00	8,384.92	8,034.15	119.81	44.70	91.48	1,626.70	-1,487.51	8,523.47	8,413.41	110.06	77.445		
15,300.00	7,870.00	8,384.29	8,033.52	120.48	44.70	91.48	1,626.69	-1,487.54	8,586.23	8,475.81	110.41	77.764		
15,400.00	7,870.00	8,383.66	8,032.89	121.19	44.70	91.47	1,626.69	-1,487.56	8,649.69	8,538.92	110.77	78.090		
15,500.00	7,870.00	8,383.04	8,032.27	121.93	44.70	91.46	1,626.68	-1,487.58	8,713.84	8,602.72	111.11	78.424		
15,600.00	7,870.00	8,382.41	8,031.65	122.71	44.70	91.46	1,626.67	-1,487.60	8,778.65	8,667.20	111.45	78.765		
15,700.00	7,870.00	8,381.79	8,031.03	123.52	44.70	91.45	1,626.67	-1,487.62	8,844.13	8,732.33	111.79	79.113		
15,800.00	7,870.00	8,381.18	8,030.41	124.36	44.70	91.45	1,626.66	-1,487.64	8,910.24	8,798.12	112.12	79.467		
15,900.00	7,870.00	8,380.56	8,029.79	125.23	44.70	91.44	1,626.66	-1,487.66	8,976.98	8,864.53	112.45	79.829		
16,000.00	7,870.00	8,379.95	8,029.18	126.14	44.69	91.44	1,626.65	-1,487.68	9,044.34	8,931.56	112.78	80.196		
16,100.00	7,870.00	8,379.34	8,028.57	127.07	44.69	91.43	1,626.65	-1,487.70	9,112.29	8,999.19	113.10	80.571		
16,200.00	7,870.00	8,378.73	8,027.96	128.04	44.69	91.43	1,626.64	-1,487.72	9,180.83	9,067.42	113.41	80.951		
16,300.00	7,870.00	8,378.12	8,027.35	129.04	44.69	91.42	1,626.64	-1,487.74	9,249.94	9,136.22	113.72	81.338		
16,400.00	7,870.00	8,377.51	8,026.75	130.06	44.69	91.42	1,626.63	-1,487.76	9,319.62	9,205.59	114.03	81.730		
16,500.00	7,870.00	8,376.91	8,026.15	131.11	44.69	91.41	1,626.63	-1,487.78	9,389.84	9,275.51	114.33	82.129		
16,600.00	7,870.00	8,376.31	8,025.55	132.19	44.69	91.41	1,626.62	-1,487.80	9,460.60	9,345.97	114.63	82.533		
16,700.00	7,870.00	8,375.71	8,024.95	133.29	44.69	91.40	1,626.61	-1,487.82	9,531.88	9,416.95	114.92	82.942		
16,800.00	7,870.00	8,375.12	8,024.35	134.42	44.68	91.40	1,626.61	-1,487.84	9,603.67	9,488.46	115.21	83.358		
16,900.00	7,870.00	8,374.52	8,023.76	135.57	44.68	91.39	1,626.60	-1,487.86	9,675.96	9,560.47	115.50	83.778		
17,000.00	7,870.00	8,373.93	8,023.17	136.75	44.68	91.39	1,626.60	-1,487.88	9,748.75	9,632.97	115.78	84.204		
17,100.00	7,870.00	8,373.34	8,022.58	137.94	44.68	91.38	1,626.59	-1,487.90	9,822.01	9,705.96	116.05	84.634		
17,200.00	7,870.00	8,372.76	8,021.99	139.16	44.68	91.38	1,626.59	-1,487.92	9,895.74	9,779.42	116.32	85.070		
17,300.00	7,870.00	8,372.17	8,021.41	140.39	44.68	91.37	1,626.58	-1,487.94	9,969.93	9,853.34	116.59	85.510		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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	-36.99	218.57	-164.64	273.76				
100.00	100.00	91.21	91.21	0.13	0.15	-36.97	218.73	-164.65	273.78	273.49	0.28	968.531	
200.00	200.00	190.09	190.09	0.49	0.41	-36.82	219.54	-164.35	274.25	273.34	0.90	303.530 ES	
300.00	300.00	286.57	286.49	0.85	0.76	-36.10	222.51	-162.25	275.44	273.83	1.61	170.998	
400.00	399.98	383.95	383.63	1.21	1.12	-103.22	228.29	-158.60	278.50	276.17	2.32	119.806	
500.00	499.84	480.31	479.42	1.56	1.49	-102.12	236.69	-152.46	283.22	280.17	3.05	92.871	
600.00	599.45	573.51	571.56	1.93	1.87	-100.97	248.13	-144.49	290.52	286.72	3.80	76.539	
700.00	698.70	664.37	660.86	2.32	2.27	-99.96	262.54	-136.00	301.13	296.57	4.56	65.980	
800.00	797.47	759.82	754.18	2.72	2.71	-99.21	280.40	-126.81	314.64	309.26	5.39	58.399	
900.00	895.62	852.21	844.22	3.16	3.16	-98.90	299.04	-117.85	329.96	323.73	6.23	52.922	
1,000.00	993.06	944.25	933.56	3.63	3.62	-98.97	319.54	-109.46	347.89	340.76	7.12	48.835	
1,100.00	1,089.64	1,042.14	1,028.42	4.14	4.12	-99.55	342.20	-101.12	367.47	359.38	8.09	45.434	
1,200.00	1,185.27	1,143.25	1,126.51	4.70	4.65	-100.61	365.04	-92.26	387.18	378.05	9.13	42.410	
1,300.00	1,279.82	1,243.37	1,223.71	5.31	5.17	-101.97	387.09	-82.77	406.95	396.73	10.22	39.824	
1,400.00	1,373.17	1,344.63	1,322.43	5.97	5.68	-103.87	407.80	-73.85	427.03	415.68	11.36	37.605	
1,500.00	1,465.21	1,430.12	1,405.67	6.69	6.11	-105.56	425.87	-66.65	449.36	436.92	12.43	36.143	
1,600.00	1,555.84	1,528.74	1,501.23	7.47	6.63	-107.51	448.40	-57.39	474.01	460.35	13.67	34.688	
1,700.00	1,644.94	1,624.72	1,593.73	8.31	7.17	-109.25	471.52	-46.39	499.96	485.01	14.95	33.452	
1,800.00	1,732.39	1,722.86	1,688.22	9.23	7.72	-111.10	495.16	-34.33	527.21	510.92	16.29	32.363	
1,900.00	1,818.11	1,819.80	1,781.83	10.21	8.25	-113.11	517.40	-22.49	555.87	538.23	17.64	31.506	
2,000.00	1,901.97	1,916.81	1,876.00	11.26	8.76	-115.37	537.74	-11.14	586.12	567.12	18.99	30.859	
2,100.00	1,983.88	2,008.54	1,965.57	12.38	9.22	-117.68	554.79	-1.20	618.44	598.17	20.27	30.507 SF	
2,200.00	2,063.74	2,088.78	2,044.43	13.57	9.60	-119.82	567.85	5.70	654.41	633.00	21.41	30.560	
2,300.00	2,141.45	2,186.89	2,141.09	14.84	10.04	-122.59	582.60	13.89	693.46	670.82	22.64	30.626	
2,327.78	2,162.65	2,209.92	2,163.75	15.21	10.15	-123.18	586.05	16.04	704.73	681.78	22.95	30.703	
2,400.00	2,217.51	2,271.97	2,224.81	16.17	10.43	-125.24	595.43	21.96	734.74	710.98	23.76	30.926	
2,500.00	2,293.49	2,356.41	2,307.67	17.51	10.83	-127.72	609.16	30.53	777.51	752.66	24.85	31.287	
2,600.00	2,369.47	2,438.86	2,388.32	18.86	11.24	-129.82	623.86	39.34	821.58	795.66	25.92	31.696	
2,700.00	2,445.45	2,524.91	2,472.45	20.22	11.66	-131.80	639.48	48.47	866.74	839.74	27.00	32.103	
2,800.00	2,521.42	2,608.21	2,553.88	21.59	12.08	-133.53	654.60	57.38	912.62	884.58	28.04	32.552	
2,900.00	2,597.40	2,688.57	2,632.27	22.97	12.49	-135.00	670.09	65.92	959.50	930.46	29.04	33.037	
3,000.00	2,673.38	2,789.50	2,730.78	24.34	12.99	-136.69	689.35	76.51	1,007.09	976.87	30.22	33.330	
3,100.00	2,749.36	2,892.51	2,831.69	25.73	13.49	-138.42	705.52	89.31	1,052.68	1,021.34	31.33	33.596	
3,200.00	2,825.33	2,975.65	2,913.02	27.11	13.90	-139.66	719.13	99.98	1,098.65	1,066.36	32.29	34.027	
3,300.00	2,901.31	3,076.87	3,011.79	28.50	14.41	-140.98	736.79	113.29	1,145.02	1,111.61	33.41	34.273	
3,400.00	2,977.29	3,161.93	3,094.38	29.90	14.85	-141.94	752.65	125.99	1,190.34	1,155.92	34.42	34.585	
3,500.00	3,053.27	3,232.23	3,162.67	31.29	15.22	-142.65	766.33	135.57	1,237.14	1,201.84	35.29	35.054	
3,600.00	3,129.24	3,310.29	3,238.85	32.69	15.62	-143.47	780.32	145.30	1,284.97	1,248.77	36.20	35.495	
3,700.00	3,205.22	3,398.84	3,325.26	34.08	16.07	-144.33	796.29	156.17	1,333.20	1,296.01	37.20	35.843	
3,800.00	3,281.20	3,461.32	3,386.09	35.48	16.39	-144.86	808.51	163.49	1,382.30	1,344.33	37.97	36.408	
3,900.00	3,357.18	3,561.98	3,484.07	36.88	16.91	-145.63	828.79	174.52	1,432.35	1,393.23	39.12	36.616	
4,000.00	3,433.15	3,657.61	3,577.11	38.29	17.41	-146.33	847.42	186.45	1,481.07	1,440.86	40.21	36.832	
4,100.00	3,509.13	3,750.42	3,667.17	39.69	17.90	-146.93	866.34	198.40	1,529.68	1,488.38	41.29	37.045	
4,200.00	3,585.11	3,826.55	3,741.20	41.09	18.30	-147.42	881.20	208.18	1,578.35	1,536.16	42.19	37.408	
4,300.00	3,661.08	3,934.47	3,845.86	42.50	18.88	-148.01	903.61	221.85	1,627.48	1,584.04	43.44	37.467	
4,400.00	3,737.06	4,002.57	3,911.52	43.90	19.26	-148.31	919.05	231.33	1,675.70	1,631.40	44.31	37.821	
4,500.00	3,813.04	4,054.00	3,961.38	45.31	19.54	-148.55	930.08	237.34	1,725.73	1,680.76	44.97	38.374	
4,600.00	3,889.02	4,141.02	4,046.00	46.71	19.99	-148.98	948.14	246.64	1,776.68	1,730.68	45.99	38.629	
4,700.00	3,964.99	4,212.08	4,115.16	48.12	20.36	-149.31	962.70	254.03	1,827.91	1,781.08	46.83	39.030	
4,800.00	4,040.97	4,301.95	4,202.86	49.53	20.81	-149.75	980.23	262.86	1,879.68	1,831.82	47.85	39.281	
4,900.00	4,116.95	4,428.21	4,326.46	50.94	21.43	-150.42	1,001.84	276.80	1,930.42	1,881.25	49.17	39.261	
5,000.00	4,192.93	4,490.14	4,387.18	52.35	21.73	-150.75	1,011.72	283.96	1,980.72	1,930.87	49.84	39.738	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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	4,268.90	4,548.60	4,444.60	53.76	22.00	-151.06	1,020.88	290.01	2,032.14	1,981.67	50.47	40.263		
5,200.00	4,344.88	4,602.99	4,498.20	55.16	22.25	-151.37	1,028.71	294.86	2,084.84	2,033.81	51.03	40.854		
5,300.00	4,420.86	4,660.74	4,555.32	56.57	22.49	-151.71	1,036.03	299.20	2,138.75	2,087.17	51.58	41.463		
5,400.00	4,496.84	4,709.00	4,603.20	57.98	22.69	-152.02	1,041.20	302.32	2,193.75	2,141.73	52.02	42.173		
5,500.00	4,572.81	4,769.70	4,663.58	59.39	22.91	-152.43	1,046.63	305.49	2,249.83	2,197.31	52.52	42.836		
5,600.00	4,648.79	4,823.17	4,716.87	60.81	23.10	-152.80	1,050.55	307.54	2,307.11	2,254.17	52.94	43.581		
5,700.00	4,724.77	4,880.29	4,773.85	62.22	23.29	-153.21	1,053.98	309.15	2,365.34	2,311.98	53.36	44.326		
5,800.00	4,800.74	4,940.52	4,834.01	63.63	23.47	-153.66	1,056.66	310.34	2,424.42	2,370.63	53.78	45.077		
5,900.00	4,876.72	5,005.04	4,898.51	65.04	23.66	-154.15	1,058.20	311.20	2,484.19	2,429.98	54.21	45.821		
6,000.00	4,952.70	5,084.63	4,978.08	66.45	23.88	-154.75	1,059.45	312.16	2,544.27	2,489.52	54.75	46.472		
6,100.00	5,028.68	5,154.60	5,048.05	67.86	24.07	-155.28	1,059.97	312.97	2,604.58	2,549.39	55.20	47.188		
6,200.00	5,104.65	5,206.78	5,100.23	69.27	24.20	-155.67	1,059.89	313.36	2,665.45	2,609.95	55.50	48.025		
6,300.00	5,180.63	5,250.11	5,143.55	70.69	24.31	-155.97	1,060.05	313.15	2,727.37	2,671.63	55.74	48.930		
6,400.00	5,256.61	5,306.49	5,199.92	72.10	24.46	-156.35	1,060.56	312.24	2,790.23	2,734.14	56.09	49.746		
6,500.00	5,332.59	5,377.40	5,270.81	73.51	24.64	-156.81	1,061.27	310.87	2,853.50	2,796.93	56.56	50.447		
6,600.00	5,408.56	5,463.22	5,356.61	74.92	24.86	-157.35	1,062.15	309.34	2,916.77	2,859.60	57.17	51.021		
6,700.00	5,484.54	5,544.99	5,438.38	76.34	25.08	-157.84	1,062.77	308.15	2,979.94	2,922.20	57.74	51.609		
6,800.00	5,560.52	5,605.88	5,499.26	77.75	25.23	-158.20	1,062.97	307.22	3,043.30	2,985.15	58.14	52.344		
6,900.00	5,636.50	5,673.78	5,567.15	79.16	25.41	-158.59	1,062.98	305.88	3,107.12	3,048.52	58.60	53.024		
7,000.00	5,712.47	5,755.64	5,648.99	80.57	25.62	-159.04	1,063.02	304.37	3,170.94	3,111.77	59.17	53.586		
7,100.00	5,788.45	5,827.32	5,720.65	81.99	25.80	-159.42	1,063.17	303.06	3,234.85	3,175.18	59.68	54.206		
7,200.00	5,864.43	5,934.68	5,828.00	83.40	26.09	-159.95	1,063.69	301.63	3,298.44	3,237.95	60.49	54.533		
7,300.00	5,940.40	5,988.55	5,881.87	84.81	26.24	-160.21	1,063.96	300.95	3,362.06	3,301.20	60.86	55.244		
7,400.00	6,016.38	6,071.27	5,964.58	86.23	26.46	-160.60	1,064.18	299.59	3,426.11	3,364.64	61.47	55.735		
7,500.00	6,092.36	6,166.28	6,059.58	87.64	26.71	-161.03	1,064.34	298.71	3,489.66	3,427.48	62.19	56.116		
7,600.00	6,168.34	6,233.73	6,127.04	89.05	26.90	-161.32	1,064.49	298.20	3,553.18	3,490.50	62.68	56.686		
7,700.00	6,244.31	6,287.53	6,180.83	90.47	27.05	-161.55	1,064.64	297.51	3,617.16	3,554.09	63.07	57.352		
7,800.00	6,320.29	6,372.55	6,268.84	91.88	27.28	-161.90	1,064.88	296.21	3,681.39	3,617.67	63.72	57.774		
7,900.00	6,396.27	6,459.42	6,352.71	93.30	27.52	-162.24	1,065.03	295.24	3,745.39	3,681.00	64.39	58.169		
8,000.00	6,472.25	6,601.76	6,495.03	94.71	27.91	-162.80	1,064.01	295.27	3,808.69	3,743.20	65.49	58.161		
8,100.00	6,548.22	6,682.34	6,575.60	96.12	28.12	-163.12	1,062.80	296.16	3,871.33	3,805.25	66.08	58.585		
8,200.00	6,624.20	6,747.36	6,640.61	97.54	28.30	-163.37	1,061.96	296.78	3,934.13	3,867.56	66.56	59.104		
8,300.00	6,700.18	6,819.56	6,712.81	98.95	28.50	-163.63	1,061.28	297.29	3,997.13	3,930.02	67.11	59.562		
8,400.00	6,776.16	6,904.90	6,798.14	100.37	28.73	-163.93	1,060.77	297.86	4,060.17	3,992.40	67.77	59.910		
8,500.00	6,852.13	6,991.05	6,884.29	101.78	28.98	-164.21	1,060.70	298.68	4,122.98	4,054.53	68.45	60.229		
8,600.00	6,928.11	7,064.91	6,958.15	103.20	29.20	-164.43	1,061.22	299.29	4,185.83	4,116.78	69.05	60.617		
8,700.00	7,004.09	7,141.12	7,034.34	104.61	29.43	-164.65	1,061.82	299.88	4,248.75	4,179.07	69.68	60.977		
8,800.00	7,080.06	7,285.90	7,179.11	106.02	29.88	-165.06	1,063.22	301.96	4,311.27	4,240.39	70.88	60.827		
8,900.00	7,156.04	7,391.23	7,284.38	107.44	30.20	-165.35	1,063.92	305.04	4,372.59	4,300.85	71.74	60.951		
9,000.00	7,232.02	7,459.52	7,352.65	108.85	30.41	-165.53	1,064.13	307.13	4,433.97	4,361.67	72.30	61.327		
9,104.68	7,311.55	7,528.81	7,421.91	110.33	30.63	-165.71	1,064.94	308.89	4,498.53	4,425.64	72.88	61.723		
9,150.00	7,346.29	7,568.77	7,461.85	110.97	30.76	-174.53	1,065.59	309.86	4,526.40	4,453.18	73.22	61.817		
9,200.00	7,385.15	7,613.49	7,506.54	111.65	30.90	175.60	1,066.39	310.98	4,556.74	4,483.14	73.61	61.907		
9,250.00	7,424.29	7,658.73	7,551.77	112.31	31.05	165.79	1,067.16	312.17	4,586.42	4,512.43	73.99	61.984		
9,300.00	7,463.40	7,704.00	7,597.01	112.93	31.19	156.27	1,067.78	313.44	4,615.23	4,540.85	74.38	62.050		
9,350.00	7,502.19	7,727.40	7,620.41	113.51	31.27	147.15	1,068.05	314.07	4,643.07	4,568.49	74.58	62.254		
9,400.00	7,540.36	7,750.78	7,643.78	114.04	31.34	138.64	1,068.27	314.64	4,669.83	4,595.05	74.79	62.443		
9,450.00	7,577.62	7,773.51	7,666.50	114.53	31.41	130.88	1,068.45	315.12	4,695.35	4,620.37	74.98	62.619		
9,500.00	7,613.70	7,797.00	7,689.99	114.95	31.49	123.92	1,068.59	315.55	4,719.48	4,644.29	75.19	62.767		
9,550.00	7,648.30	7,820.39	7,713.37	115.32	31.56	117.76	1,068.71	315.92	4,742.04	4,666.64	75.40	62.891		
9,600.00	7,681.18	7,844.32	7,737.30	115.63	31.63	112.40	1,068.83	316.25	4,762.92	4,687.29	75.62	62.981		
9,650.00	7,712.08	7,866.73	7,759.71	115.88	31.70	107.76	1,068.95	316.51	4,781.99	4,706.14	75.85	63.049		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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		
9,700.00	7,740.76	7,890.00	7,782.98	116.08	31.77	103.81	1,069.07	316.75	4,799.17	4,723.08	76.09	63.072		
9,750.00	7,767.01	7,934.25	7,827.22	116.23	31.91	100.71	1,069.27	317.25	4,814.31	4,737.78	76.53	62.909		
9,800.00	7,790.63	7,980.74	7,873.71	116.33	32.05	98.22	1,069.42	318.01	4,827.27	4,750.26	77.00	62.688		
9,850.00	7,811.44	8,002.87	7,895.83	116.38	32.12	96.00	1,069.48	318.43	4,838.07	4,760.77	77.30	62.585		
9,900.00	7,829.28	8,020.33	7,913.30	116.38	32.17	94.22	1,069.54	318.75	4,846.76	4,769.17	77.59	62.464		
9,950.00	7,844.01	8,034.66	7,927.62	116.35	32.22	92.85	1,069.60	319.02	4,853.32	4,775.43	77.89	62.312		
10,000.00	7,855.52	8,045.76	7,938.72	116.28	32.25	91.87	1,069.66	319.23	4,857.72	4,779.53	78.19	62.127		
10,050.00	7,863.72	8,053.57	7,946.52	116.18	32.28	91.26	1,069.70	319.37	4,859.97	4,781.47	78.50	61.910		
10,100.00	7,868.56	8,058.04	7,950.99	116.06	32.29	91.00	1,069.72	319.45	4,860.06	4,781.24	78.82	61.660		
10,145.94	7,870.00	8,059.20	7,952.15	115.92	32.30	91.07	1,069.73	319.47	4,858.26	4,779.14	79.12	61.400		
10,200.00	7,870.00	8,058.90	7,951.85	115.76	32.29	91.06	1,069.73	319.47	4,855.38	4,775.89	79.49	61.080		
10,300.00	7,870.00	8,058.35	7,951.31	115.46	32.29	91.06	1,069.72	319.46	4,851.63	4,771.43	80.20	60.492		
10,400.00	7,870.00	8,057.81	7,950.77	115.18	32.29	91.05	1,069.72	319.45	4,849.95	4,769.00	80.95	59.913		
10,431.81	7,870.00	8,057.64	7,950.59	115.09	32.29	91.05	1,069.72	319.44	4,849.84	4,768.64	81.20	59.727		
10,500.00	7,870.00	8,057.27	7,950.23	114.91	32.29	91.04	1,069.72	319.44	4,850.32	4,768.59	81.73	59.347		
10,600.00	7,870.00	8,056.74	7,949.70	114.65	32.29	91.04	1,069.71	319.43	4,852.76	4,770.22	82.54	58.796		
10,700.00	7,870.00	8,056.21	7,949.17	114.41	32.29	91.03	1,069.71	319.42	4,857.25	4,773.88	83.37	58.263		
10,800.00	7,870.00	8,055.69	7,948.64	114.17	32.28	91.02	1,069.71	319.41	4,863.80	4,779.58	84.22	57.750		
10,900.00	7,870.00	8,055.17	7,948.12	113.95	32.28	91.02	1,069.70	319.40	4,872.39	4,787.29	85.09	57.259		
11,000.00	7,870.00	8,054.65	7,947.61	113.75	32.28	91.01	1,069.70	319.39	4,883.01	4,797.03	85.98	56.791		
11,100.00	7,870.00	8,054.14	7,947.10	113.55	32.28	91.01	1,069.70	319.38	4,895.66	4,808.78	86.88	56.349		
11,200.00	7,870.00	8,053.64	7,946.59	113.37	32.28	91.00	1,069.70	319.37	4,910.30	4,822.52	87.79	55.934		
11,300.00	7,870.00	8,053.13	7,946.09	113.20	32.28	90.99	1,069.69	319.36	4,926.94	4,838.24	88.70	55.545		
11,400.00	7,870.00	8,052.63	7,945.59	113.04	32.28	90.99	1,069.69	319.35	4,945.54	4,855.92	89.62	55.186		
11,500.00	7,870.00	8,052.14	7,945.09	112.89	32.27	90.98	1,069.69	319.34	4,966.08	4,875.55	90.53	54.855		
11,600.00	7,870.00	8,051.65	7,944.60	112.76	32.27	90.98	1,069.69	319.33	4,988.55	4,897.10	91.44	54.553		
11,700.00	7,870.00	8,051.16	7,944.11	112.64	32.27	90.97	1,069.68	319.33	5,012.91	4,920.56	92.35	54.281		
11,800.00	7,870.00	8,050.68	7,943.63	112.53	32.27	90.96	1,069.68	319.32	5,039.13	4,945.88	93.25	54.038		
11,900.00	7,870.00	8,050.20	7,943.15	112.44	32.27	90.96	1,069.68	319.31	5,067.20	4,973.06	94.14	53.825		
12,000.00	7,870.00	8,049.72	7,942.68	112.36	32.27	90.95	1,069.68	319.30	5,097.07	5,002.05	95.02	53.641		
12,100.00	7,870.00	8,049.25	7,942.20	112.29	32.26	90.95	1,069.67	319.29	5,128.72	5,032.83	95.89	53.486		
12,200.00	7,870.00	8,048.78	7,941.73	112.24	32.26	90.94	1,069.67	319.28	5,162.11	5,065.37	96.74	53.360		
12,300.00	7,870.00	8,048.31	7,941.27	112.20	32.26	90.94	1,069.67	319.27	5,197.21	5,099.63	97.58	53.262		
12,400.00	7,870.00	8,047.85	7,940.81	112.17	32.26	90.93	1,069.67	319.26	5,233.99	5,135.59	98.40	53.191		
12,500.00	7,870.00	8,047.39	7,940.35	112.16	32.26	90.93	1,069.66	319.26	5,272.41	5,173.20	99.20	53.148		
12,600.00	7,870.00	8,046.94	7,939.90	112.17	32.26	90.92	1,069.66	319.25	5,312.43	5,212.44	99.99	53.131		
12,700.00	7,870.00	8,046.49	7,939.45	112.19	32.26	90.91	1,069.66	319.24	5,354.02	5,253.27	100.75	53.140		
12,800.00	7,870.00	8,046.04	7,939.00	112.23	32.25	90.91	1,069.66	319.23	5,397.14	5,295.64	101.50	53.174		
12,900.00	7,870.00	8,045.60	7,938.55	112.28	32.25	90.90	1,069.65	319.22	5,441.76	5,339.54	102.23	53.232		
13,000.00	7,870.00	8,045.16	7,938.11	112.36	32.25	90.90	1,069.65	319.21	5,487.84	5,384.91	102.93	53.314		
13,100.00	7,870.00	8,044.72	7,937.68	112.45	32.25	90.89	1,069.65	319.21	5,535.34	5,431.72	103.62	53.420		
13,200.00	7,870.00	8,044.28	7,937.24	112.56	32.25	90.89	1,069.65	319.20	5,584.23	5,479.95	104.29	53.547		
13,300.00	7,870.00	8,043.85	7,936.81	112.68	32.25	90.88	1,069.65	319.19	5,634.47	5,529.54	104.93	53.697		
13,400.00	7,870.00	8,043.43	7,936.38	112.83	32.25	90.88	1,069.64	319.18	5,686.03	5,580.47	105.56	53.867		
13,500.00	7,870.00	8,043.00	7,935.96	113.00	32.25	90.87	1,069.64	319.17	5,738.86	5,632.70	106.16	54.058		
13,600.00	7,870.00	8,042.58	7,935.54	113.19	32.24	90.87	1,069.64	319.17	5,792.94	5,686.19	106.75	54.268		
13,700.00	7,870.00	8,042.16	7,935.12	113.40	32.24	90.86	1,069.64	319.16	5,848.23	5,740.92	107.31	54.497		
13,800.00	7,870.00	8,041.75	7,934.70	113.63	32.24	90.86	1,069.64	319.15	5,904.69	5,796.83	107.86	54.745		
13,900.00	7,870.00	8,041.33	7,934.29	113.89	32.24	90.85	1,069.63	319.14	5,962.30	5,853.91	108.39	55.010		
14,000.00	7,870.00	8,040.92	7,933.88	114.18	32.24	90.85	1,069.63	319.14	6,021.02	5,912.12	108.89	55.292		
14,100.00	7,870.00	8,040.52	7,933.47	114.48	32.24	90.84	1,069.63	319.13	6,080.81	5,971.43	109.39	55.591		
14,200.00	7,870.00	8,040.11	7,933.07	114.82	32.24	90.84	1,069.63	319.12	6,141.65	6,031.79	109.86	55.905		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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		
14,300.00	7,870.00	8,039.71	7,932.67	115.18	32.24	90.83	1,069.63	319.11	6,203.51	6,093.19	110.31	56.235		
14,400.00	7,870.00	8,039.32	7,932.27	115.57	32.23	90.83	1,069.62	319.11	6,266.35	6,155.60	110.75	56.580		
14,500.00	7,870.00	8,038.92	7,931.88	115.99	32.23	90.83	1,069.62	319.10	6,330.15	6,218.97	111.17	56.939		
14,600.00	7,870.00	8,038.53	7,931.49	116.44	32.23	90.82	1,069.62	319.09	6,394.87	6,283.29	111.58	57.312		
14,700.00	7,870.00	8,038.14	7,931.10	116.92	32.23	90.82	1,069.62	319.09	6,460.49	6,348.52	111.97	57.698		
14,800.00	7,870.00	8,037.75	7,930.71	117.44	32.23	90.81	1,069.62	319.08	6,526.99	6,414.64	112.35	58.096		
14,900.00	7,870.00	8,037.37	7,930.33	117.98	32.23	90.81	1,069.61	319.07	6,594.33	6,481.62	112.71	58.507		
15,000.00	7,870.00	8,036.99	7,929.94	118.56	32.23	90.80	1,069.61	319.06	6,662.49	6,549.44	113.06	58.930		
15,100.00	7,870.00	8,036.61	7,929.57	119.17	32.23	90.80	1,069.61	319.06	6,731.45	6,618.06	113.39	59.365		
15,200.00	7,870.00	8,036.23	7,929.19	119.81	32.22	90.79	1,069.61	319.05	6,801.18	6,687.47	113.71	59.810		
15,300.00	7,870.00	8,035.86	7,928.82	120.48	32.22	90.79	1,069.61	319.04	6,871.66	6,757.64	114.02	60.266		
15,400.00	7,870.00	8,035.49	7,928.45	121.19	32.22	90.79	1,069.61	319.04	6,942.86	6,828.54	114.32	60.733		
15,500.00	7,870.00	8,035.12	7,928.08	121.93	32.22	90.78	1,069.60	319.03	7,014.76	6,900.16	114.60	61.209		
15,600.00	7,870.00	8,034.75	7,927.71	122.71	32.22	90.78	1,069.60	319.02	7,087.35	6,972.47	114.88	61.695		
15,700.00	7,870.00	8,034.39	7,927.35	123.52	32.22	90.77	1,069.60	319.02	7,160.60	7,045.46	115.14	62.190		
15,800.00	7,870.00	8,034.03	7,926.99	124.36	32.22	90.77	1,069.60	319.01	7,234.48	7,119.09	115.39	62.694		
15,900.00	7,870.00	8,033.67	7,926.63	125.23	32.22	90.76	1,069.60	319.00	7,308.99	7,193.36	115.64	63.207		
16,000.00	7,870.00	8,033.32	7,926.27	126.14	32.22	90.76	1,069.60	319.00	7,384.10	7,268.23	115.87	63.728		
16,100.00	7,870.00	8,032.96	7,925.92	127.07	32.21	90.76	1,069.59	318.99	7,459.80	7,343.70	116.09	64.256		
16,200.00	7,870.00	8,032.61	7,925.57	128.04	32.21	90.75	1,069.59	318.98	7,536.06	7,419.75	116.31	64.793		
16,300.00	7,870.00	8,032.26	7,925.22	129.04	32.21	90.75	1,069.59	318.98	7,612.87	7,496.36	116.52	65.337		
16,400.00	7,870.00	8,031.92	7,924.87	130.06	32.21	90.74	1,069.59	318.97	7,690.22	7,573.50	116.72	65.888		
16,500.00	7,870.00	8,031.57	7,924.53	131.11	32.21	90.74	1,069.59	318.96	7,768.08	7,651.17	116.91	66.446		
16,600.00	7,870.00	8,031.23	7,924.19	132.19	32.21	90.73	1,069.59	318.96	7,846.44	7,729.35	117.09	67.011		
16,700.00	7,870.00	8,030.89	7,923.85	133.29	32.21	90.73	1,069.58	318.95	7,925.29	7,808.02	117.27	67.582		
16,800.00	7,870.00	8,030.55	7,923.51	134.42	32.21	90.73	1,069.58	318.94	8,004.62	7,887.18	117.44	68.159		
16,900.00	7,870.00	8,030.22	7,923.18	135.57	32.21	90.72	1,069.58	318.94	8,084.40	7,966.79	117.60	68.743		
17,000.00	7,870.00	8,029.88	7,922.84	136.75	32.20	90.72	1,069.58	318.93	8,164.63	8,046.86	117.76	69.332		
17,100.00	7,870.00	8,029.55	7,922.51	137.94	32.20	90.71	1,069.58	318.93	8,245.28	8,127.37	117.91	69.927		
17,200.00	7,870.00	8,029.22	7,922.18	139.16	32.20	90.71	1,069.58	318.92	8,326.36	8,208.30	118.06	70.527		
17,300.00	7,870.00	8,028.90	7,921.86	140.39	32.20	90.71	1,069.58	318.91	8,407.85	8,289.65	118.20	71.133		
17,400.00	7,870.00	8,028.57	7,921.53	141.65	32.20	90.70	1,069.57	318.91	8,489.73	8,371.40	118.33	71.743		
17,500.00	7,870.00	8,028.25	7,921.21	142.92	32.20	90.70	1,069.57	318.90	8,572.00	8,453.53	118.46	72.359		
17,600.00	7,870.00	8,027.93	7,920.89	144.21	32.20	90.70	1,069.57	318.90	8,654.64	8,536.05	118.59	72.979		
17,700.00	7,870.00	8,027.61	7,920.57	145.52	32.20	90.69	1,069.57	318.89	8,737.64	8,618.93	118.71	73.604		
17,800.00	7,870.00	8,027.30	7,920.26	146.84	32.20	90.69	1,069.57	318.88	8,821.00	8,702.17	118.83	74.233		
17,900.00	7,870.00	8,026.98	7,919.94	148.18	32.20	90.68	1,069.57	318.88	8,904.70	8,785.75	118.94	74.867		
18,000.00	7,870.00	8,026.67	7,919.63	149.54	32.19	90.68	1,069.57	318.87	8,988.73	8,869.68	119.05	75.504		
18,100.00	7,870.00	8,026.36	7,919.32	150.90	32.19	90.68	1,069.56	318.87	9,073.08	8,953.93	119.15	76.146		
18,200.00	7,870.00	8,026.05	7,919.01	152.28	32.19	90.67	1,069.56	318.86	9,157.75	9,038.50	119.26	76.791		
18,300.00	7,870.00	8,025.74	7,918.70	153.67	32.19	90.67	1,069.56	318.86	9,242.73	9,123.38	119.35	77.440		
18,400.00	7,870.00	8,025.44	7,918.40	155.07	32.19	90.67	1,069.56	318.85	9,328.00	9,208.56	119.45	78.093		
18,500.00	7,870.00	8,025.14	7,918.10	156.49	32.19	90.66	1,069.56	318.84	9,413.57	9,294.03	119.54	78.749		
18,600.00	7,870.00	8,024.84	7,917.80	157.91	32.19	90.66	1,069.56	318.84	9,499.41	9,379.79	119.63	79.409		
18,700.00	7,870.00	8,024.54	7,917.50	159.35	32.19	90.66	1,069.56	318.83	9,585.53	9,465.82	119.71	80.072		
18,800.00	7,870.00	8,024.24	7,917.20	160.79	32.19	90.65	1,069.56	318.83	9,671.92	9,552.13	119.79	80.738		
18,900.00	7,870.00	8,023.95	7,916.91	162.25	32.19	90.65	1,069.55	318.82	9,758.57	9,638.69	119.87	81.407		
19,000.00	7,870.00	8,023.65	7,916.61	163.71	32.19	90.65	1,069.55	318.82	9,845.47	9,725.52	119.95	82.079		
19,100.00	7,870.00	8,023.36	7,916.32	165.18	32.18	90.64	1,069.55	318.81	9,932.62	9,812.59	120.03	82.753		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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	-31.48	218.57	-133.84	256.42				
100.00	100.00	90.95	90.95	0.13	0.15	-31.46	218.78	-133.85	256.48	256.20	0.28	908.077	
200.00	200.00	190.33	190.33	0.49	0.41	-31.40	219.42	-133.92	257.06	256.16	0.90	284.131	
300.00	300.00	289.99	289.99	0.85	0.77	-31.35	220.12	-134.10	257.76	256.14	1.62	159.088	
400.00	399.98	394.37	394.36	1.21	1.13	-99.82	220.48	-133.93	258.27	255.93	2.34	110.462	
500.00	499.84	504.06	504.00	1.56	1.51	-101.01	218.17	-131.95	256.48	253.41	3.07	83.622	
600.00	599.45	614.89	614.56	1.93	1.90	-103.03	212.31	-126.90	251.35	247.53	3.82	65.878	
700.00	698.70	725.60	724.49	2.32	2.31	-105.85	202.91	-117.99	242.70	238.13	4.58	53.023	
800.00	797.47	835.42	832.80	2.72	2.76	-109.41	190.71	-104.62	230.99	225.65	5.35	43.194	
900.00	895.62	942.13	937.10	3.16	3.23	-113.99	175.81	-87.74	216.74	210.62	6.12	35.403	
1,000.00	993.06	1,040.88	1,033.10	3.63	3.71	-119.50	160.86	-70.12	203.05	196.14	6.91	29.373	
1,100.00	1,089.64	1,139.96	1,129.13	4.14	4.21	-126.61	144.76	-51.76	192.11	184.40	7.71	24.908	
1,200.00	1,185.27	1,232.53	1,219.01	4.70	4.69	-134.39	130.21	-35.03	187.38	178.82	8.55	21.907	
1,208.37	1,193.22	1,240.32	1,226.58	4.75	4.73	-135.08	129.03	-33.68	187.35	178.72	8.63	21.721 CC, ES	
1,300.00	1,279.82	1,325.47	1,309.55	5.31	5.16	-142.81	116.15	-19.53	190.97	181.55	9.41	20.291	
1,400.00	1,373.17	1,419.52	1,401.32	5.97	5.63	-151.28	101.92	-4.58	202.92	192.63	10.28	19.731 SF	
1,500.00	1,465.21	1,515.05	1,494.35	6.69	6.13	-159.27	86.97	11.10	221.97	210.79	11.18	19.861	
1,600.00	1,555.84	1,608.71	1,585.26	7.47	6.63	-166.33	71.33	27.32	247.38	235.29	12.09	20.463	
1,700.00	1,644.94	1,699.70	1,673.58	8.31	7.11	-172.06	56.34	43.25	279.01	266.00	13.01	21.444	
1,800.00	1,732.39	1,788.50	1,759.94	9.23	7.59	-176.53	42.35	58.47	316.27	302.35	13.93	22.710	
1,900.00	1,818.11	1,875.19	1,844.39	10.21	8.04	-179.97	29.01	72.81	358.58	343.75	14.83	24.172	
2,000.00	1,901.97	1,958.19	1,925.54	11.26	8.46	-177.41	17.09	85.50	405.60	389.89	15.71	25.822	
2,100.00	1,983.88	2,043.72	2,009.51	12.38	8.88	-175.48	6.17	97.58	456.53	439.95	16.58	27.527	
2,200.00	2,063.74	2,118.96	2,083.55	13.57	9.23	-174.18	-2.85	107.42	511.21	493.84	17.37	29.426	
2,300.00	2,141.45	2,195.75	2,159.16	14.84	9.60	-173.02	-12.74	116.48	570.13	551.95	18.18	31.357	
2,327.78	2,162.65	2,217.89	2,180.92	15.21	9.70	-172.69	-15.84	119.20	587.04	568.61	18.42	31.867	
2,400.00	2,217.51	2,276.21	2,238.08	16.17	9.99	-171.95	-24.57	126.72	631.23	612.18	19.05	33.132	
2,500.00	2,293.49	2,358.73	2,318.61	17.51	10.41	-170.89	-38.24	138.45	692.20	672.23	19.97	34.660	
2,600.00	2,369.47	2,444.02	2,401.72	18.86	10.86	-169.93	-52.47	151.31	752.73	731.79	20.94	35.945	
2,700.00	2,445.45	2,532.62	2,488.11	20.22	11.32	-169.15	-66.35	165.20	812.55	790.60	21.95	37.019	
2,800.00	2,521.42	2,623.01	2,576.18	21.59	11.80	-168.46	-79.99	180.27	871.52	848.53	22.99	37.915	
2,900.00	2,597.40	2,712.11	2,663.01	22.97	12.27	-167.91	-92.67	195.74	929.71	905.69	24.01	38.715	
3,000.00	2,673.38	2,794.79	2,743.64	24.34	12.70	-167.49	-103.86	210.24	987.52	962.54	24.98	39.535	
3,100.00	2,749.36	2,861.14	2,808.35	25.73	13.05	-167.18	-113.07	221.59	1,045.82	1,020.04	25.78	40.563	
3,200.00	2,825.33	2,931.78	2,877.29	27.11	13.42	-166.87	-123.60	232.90	1,105.31	1,078.68	26.63	41.502	
3,300.00	2,901.31	3,012.15	2,955.67	28.50	13.84	-166.54	-135.90	245.72	1,165.05	1,137.46	27.59	42.220	
3,400.00	2,977.29	3,093.31	3,034.71	29.90	14.27	-166.20	-148.66	259.03	1,224.68	1,196.11	28.58	42.854	
3,500.00	3,053.27	3,162.76	3,102.38	31.29	14.63	-165.95	-159.67	270.12	1,284.69	1,255.26	29.43	43.649	
3,600.00	3,129.24	3,257.32	3,194.69	32.69	15.13	-165.67	-173.98	284.78	1,344.75	1,314.19	30.56	44.009	
3,700.00	3,205.22	3,334.85	3,270.48	34.08	15.52	-165.50	-184.91	296.95	1,404.21	1,372.72	31.48	44.601	
3,800.00	3,281.20	3,411.70	3,345.60	35.48	15.92	-165.34	-195.93	308.79	1,463.98	1,431.58	32.41	45.176	
3,900.00	3,357.18	3,490.67	3,422.75	36.88	16.32	-165.18	-207.53	321.04	1,523.84	1,490.48	33.36	45.681	
4,000.00	3,433.15	3,569.45	3,499.76	38.29	16.73	-165.04	-218.96	333.09	1,583.78	1,549.47	34.31	46.164	
4,100.00	3,509.13	3,649.43	3,577.96	39.69	17.14	-164.91	-230.50	345.25	1,643.74	1,608.47	35.27	46.606	
4,200.00	3,585.11	3,727.41	3,654.34	41.09	17.53	-164.82	-241.22	356.70	1,703.76	1,667.57	36.19	47.072	
4,300.00	3,661.08	3,817.23	3,742.40	42.50	17.98	-164.74	-253.14	369.80	1,763.64	1,726.40	37.25	47.350	
4,400.00	3,737.06	3,912.18	3,835.15	43.90	18.47	-164.61	-266.61	385.04	1,822.95	1,784.56	38.39	47.489	
4,500.00	3,813.04	3,997.23	3,918.15	45.31	18.91	-164.49	-278.58	399.20	1,881.79	1,842.38	39.42	47.740	
4,600.00	3,889.02	4,085.43	4,004.51	46.71	19.35	-164.42	-289.69	413.27	1,940.46	1,900.00	40.46	47.957	
4,700.00	3,964.99	4,154.32	4,071.80	48.12	19.71	-164.35	-298.92	424.74	1,999.04	1,957.73	41.31	48.386	
4,800.00	4,040.97	4,210.84	4,126.75	49.53	20.01	-164.24	-307.96	434.38	2,058.51	2,016.46	42.05	48.958	
4,900.00	4,116.95	4,280.02	4,193.99	50.94	20.39	-164.11	-319.54	445.82	2,118.65	2,075.71	42.93	49.348	

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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	4,192.93	4,334.57	4,247.22	52.35	20.67	164.04	-328.17	454.07	2,179.37	2,135.75	43.62	49.962		
5,100.00	4,268.90	4,380.61	4,292.35	53.76	20.90	164.01	-335.10	459.96	2,241.21	2,197.03	44.18	50.724		
5,200.00	4,344.88	4,456.69	4,367.28	55.16	21.25	164.03	-345.49	468.05	2,303.86	2,258.81	45.05	51.135		
5,300.00	4,420.86	4,530.26	4,440.04	56.57	21.57	164.10	-353.84	474.96	2,366.31	2,320.45	45.86	51.602		
5,400.00	4,496.84	4,593.49	4,502.78	57.98	21.83	164.21	-360.10	479.82	2,429.22	2,382.69	46.52	52.218		
5,500.00	4,572.81	4,670.91	4,579.73	59.39	22.13	164.36	-366.87	484.93	2,492.34	2,445.03	47.30	52.690		
5,600.00	4,648.79	4,746.56	4,655.04	60.81	22.41	164.54	-372.57	489.28	2,555.49	2,507.45	48.04	53.195		
5,700.00	4,724.77	4,815.30	4,723.56	62.22	22.65	164.73	-376.88	492.53	2,618.79	2,570.10	48.69	53.786		
5,800.00	4,800.74	4,879.15	4,787.30	63.63	22.86	164.93	-380.04	494.66	2,682.43	2,633.16	49.27	54.443		
5,900.00	4,876.72	4,938.69	4,846.76	65.04	23.06	165.12	-382.84	496.14	2,746.54	2,696.74	49.80	55.150		
6,000.00	4,952.70	4,992.32	4,900.31	66.45	23.23	165.28	-385.45	497.11	2,811.19	2,760.91	50.27	55.917		
6,100.00	5,028.68	5,052.00	4,959.91	67.86	23.41	165.47	-388.50	497.60	2,876.54	2,825.74	50.80	56.627		
6,200.00	5,104.65	5,098.45	5,006.29	69.27	23.55	165.61	-391.09	497.69	2,942.46	2,891.26	51.20	57.469		
6,300.00	5,180.63	5,300.00	5,117.93	70.69	27.22	165.94	-396.73	498.04	3,008.21	2,952.63	55.58	54.128		
6,400.00	5,256.61	5,324.95	5,232.60	72.10	24.22	166.33	-398.96	498.53	3,072.46	3,019.32	53.14	57.816		
6,500.00	5,332.59	5,395.89	5,303.53	73.51	24.40	166.59	-399.27	498.22	3,136.89	3,083.19	53.70	58.414		
6,600.00	5,408.56	5,465.96	5,373.60	74.92	24.58	166.84	-399.31	497.62	3,201.46	3,147.22	54.25	59.018		
6,700.00	5,484.54	5,536.02	5,443.66	76.34	24.75	167.09	-399.44	496.93	3,266.23	3,211.43	54.79	59.613		
6,800.00	5,560.52	5,610.00	5,517.63	77.75	24.93	167.34	-399.53	496.09	3,331.09	3,275.72	55.37	60.163		
6,900.00	5,636.50	5,688.33	5,595.96	79.16	25.13	167.60	-399.56	495.19	3,395.98	3,340.00	55.98	60.663		
7,000.00	5,712.47	5,768.85	5,676.47	80.57	25.33	167.85	-399.61	494.38	3,460.81	3,404.20	56.62	61.128		
7,100.00	5,788.45	5,847.43	5,755.05	81.99	25.53	168.09	-399.60	493.69	3,525.57	3,468.34	57.24	61.594		
7,200.00	5,864.43	5,924.13	5,831.74	83.40	25.72	168.31	-399.52	493.02	3,590.33	3,532.48	57.85	62.064		
7,300.00	5,940.40	5,999.17	5,906.78	84.81	25.91	168.52	-399.32	492.30	3,655.10	3,596.65	58.45	62.538		
7,400.00	6,016.38	6,068.23	5,975.84	86.23	26.09	168.72	-399.11	491.55	3,719.98	3,660.98	59.00	63.051		
7,500.00	6,092.36	6,142.48	6,050.09	87.64	26.28	168.92	-398.88	490.64	3,784.97	3,725.37	59.59	63.512		
7,600.00	6,168.34	6,221.65	6,129.25	89.05	26.48	169.13	-398.50	489.61	3,849.97	3,789.74	60.23	63.922		
7,700.00	6,244.31	6,305.71	6,213.30	90.47	26.70	169.34	-397.95	488.61	3,914.87	3,853.96	60.90	64.280		
7,800.00	6,320.29	6,386.07	6,293.66	91.88	26.91	169.54	-397.43	487.87	3,979.61	3,918.05	61.55	64.653		
7,900.00	6,396.27	6,454.73	6,362.31	93.30	27.09	169.71	-397.02	487.19	4,044.43	3,982.32	62.11	65.112		
8,000.00	6,472.25	6,530.67	6,438.25	94.71	27.29	169.88	-396.63	486.41	4,109.34	4,046.61	62.74	65.501		
8,100.00	6,548.22	6,625.34	6,532.91	96.12	27.55	170.09	-396.23	485.70	4,174.13	4,110.62	63.51	65.722		
8,200.00	6,624.20	6,703.10	6,610.67	97.54	27.76	170.25	-395.95	485.45	4,238.68	4,174.52	64.16	66.066		
8,300.00	6,700.18	6,779.57	6,687.14	98.95	27.97	170.40	-395.83	485.25	4,303.27	4,238.46	64.80	66.404		
8,400.00	6,776.16	6,858.92	6,766.49	100.37	28.20	170.54	-395.95	485.25	4,367.82	4,302.34	65.49	66.697		
8,500.00	6,852.13	6,938.60	6,846.16	101.78	28.45	170.68	-396.50	485.56	4,432.33	4,366.15	66.19	66.966		
8,600.00	6,928.11	7,019.10	6,926.66	103.20	28.70	170.80	-397.27	486.07	4,496.79	4,429.88	66.90	67.213		
8,700.00	7,004.09	7,094.06	7,001.62	104.61	28.93	170.91	-398.17	486.68	4,561.22	4,493.65	67.58	67.496		
8,800.00	7,080.06	7,161.34	7,068.88	106.02	29.15	171.01	-399.19	487.28	4,625.74	4,557.55	68.19	67.834		
8,900.00	7,156.04	7,231.81	7,139.34	107.44	29.37	171.10	-400.42	487.81	4,690.43	4,621.59	68.83	68.140		
9,000.00	7,232.02	7,313.13	7,220.65	108.85	29.63	171.21	-401.83	488.46	4,755.09	4,685.52	69.57	68.347		
9,104.68	7,311.55	7,398.29	7,305.78	110.33	29.90	171.31	-403.28	489.23	4,822.71	4,752.36	70.35	68.556		
9,150.00	7,346.29	7,439.15	7,346.64	110.97	30.04	162.88	-403.92	489.63	4,851.32	4,780.60	70.71	68.606		
9,200.00	7,385.15	7,485.84	7,393.33	111.65	30.19	153.71	-404.59	490.12	4,881.24	4,810.12	71.12	68.632		
9,250.00	7,424.29	7,570.79	7,478.27	112.31	30.46	144.99	-405.44	491.35	4,909.09	4,837.25	71.84	68.330		
9,300.00	7,463.40	7,578.00	7,485.47	112.93	30.48	136.32	-405.48	491.48	4,934.82	4,862.91	71.90	68.630		
9,350.00	7,502.19	7,616.02	7,523.48	113.51	30.60	128.37	-405.70	492.01	4,958.36	4,886.15	72.21	68.667		
9,400.00	7,540.36	7,635.30	7,542.77	114.04	30.66	120.99	-405.82	492.16	4,979.77	4,907.43	72.34	68.835		
9,450.00	7,577.62	7,672.00	7,579.46	114.53	30.78	114.49	-406.06	492.22	4,998.94	4,926.33	72.61	68.846		
9,500.00	7,613.70	7,672.00	7,579.46	114.95	30.78	108.51	-406.06	492.22	5,015.56	4,943.00	72.55	69.129		
9,550.00	7,648.30	7,694.32	7,601.78	115.32	30.84	103.49	-406.21	492.13	5,029.72	4,957.05	72.67	69.215		
9,600.00	7,681.18	7,715.43	7,622.89	115.63	30.90	99.22	-406.36	492.00	5,041.27	4,968.51	72.76	69.289		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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		
9,650.00	7,712.08	7,735.23	7,642.69	115.88	30.96	95.64	-406.51	491.83	5,050.16	4,977.34	72.82	69.350		
9,700.00	7,740.76	7,753.60	7,661.06	116.08	31.02	92.71	-406.66	491.63	5,056.38	4,983.51	72.86	69.396		
9,750.00	7,767.01	7,774.62	7,682.08	116.23	31.08	90.41	-406.83	491.36	5,059.89	4,986.98	72.92	69.393		
9,800.00	7,790.63	7,804.13	7,711.59	116.33	31.17	88.76	-407.04	490.98	5,060.67	4,987.63	73.04	69.289		
9,850.00	7,811.44	7,830.02	7,737.48	116.38	31.24	87.60	-407.17	490.66	5,058.72	4,985.59	73.12	69.180		
9,900.00	7,829.28	7,852.12	7,759.57	116.38	31.30	86.90	-407.25	490.39	5,054.10	4,980.92	73.18	69.063		
9,950.00	7,844.01	7,870.26	7,777.71	116.35	31.36	86.62	-407.29	490.17	5,046.89	4,973.68	73.21	68.937		
10,000.00	7,855.52	7,884.13	7,791.58	116.28	31.40	86.74	-407.27	489.99	5,037.17	4,963.96	73.21	68.805		
10,050.00	7,863.72	7,893.74	7,801.19	116.18	31.42	87.26	-407.23	489.86	5,025.01	4,951.82	73.19	68.660		
10,100.00	7,868.56	7,899.16	7,806.61	116.06	31.44	88.16	-407.20	489.79	5,010.51	4,937.36	73.15	68.499		
10,145.94	7,870.00	7,900.53	7,807.98	115.92	31.44	89.34	-407.19	489.77	4,995.22	4,922.12	73.10	68.334		
10,200.00	7,870.00	7,900.17	7,807.61	115.76	31.44	89.33	-407.20	489.78	4,976.40	4,903.36	73.05	68.127		
10,300.00	7,870.00	7,899.51	7,806.95	115.46	31.44	89.33	-407.20	489.78	4,942.97	4,869.99	72.98	67.726		
10,400.00	7,870.00	7,898.88	7,806.33	115.18	31.44	89.32	-407.20	489.79	4,911.35	4,838.37	72.98	67.300		
10,500.00	7,870.00	7,898.28	7,805.73	114.91	31.44	89.31	-407.21	489.80	4,881.57	4,808.54	73.03	66.848		
10,600.00	7,870.00	7,897.70	7,805.15	114.65	31.43	89.30	-407.21	489.81	4,853.67	4,780.54	73.13	66.371		
10,700.00	7,870.00	7,897.15	7,804.60	114.41	31.43	89.30	-407.21	489.82	4,827.68	4,754.38	73.29	65.869		
10,800.00	7,870.00	7,896.62	7,804.07	114.17	31.43	89.29	-407.22	489.82	4,803.63	4,730.11	73.51	65.345		
10,900.00	7,870.00	7,896.11	7,803.56	113.95	31.43	89.28	-407.22	489.83	4,781.55	4,707.76	73.79	64.799		
11,000.00	7,870.00	7,895.63	7,803.07	113.75	31.43	89.28	-407.22	489.84	4,761.47	4,687.34	74.13	64.234		
11,100.00	7,870.00	7,895.16	7,802.60	113.55	31.43	89.27	-407.22	489.84	4,743.41	4,668.89	74.52	63.653		
11,200.00	7,870.00	7,894.70	7,802.15	113.37	31.43	89.27	-407.23	489.85	4,727.40	4,652.43	74.97	63.059		
11,300.00	7,870.00	7,894.27	7,801.71	113.20	31.42	89.26	-407.23	489.86	4,713.45	4,637.99	75.47	62.456		
11,400.00	7,870.00	7,893.85	7,801.29	113.04	31.42	89.26	-407.23	489.86	4,701.60	4,625.58	76.02	61.847		
11,500.00	7,870.00	7,893.44	7,800.89	112.89	31.42	89.25	-407.23	489.87	4,691.84	4,615.22	76.62	61.235		
11,600.00	7,870.00	7,893.05	7,800.50	112.76	31.42	89.25	-407.23	489.87	4,684.20	4,606.94	77.26	60.625		
11,700.00	7,870.00	7,892.67	7,800.12	112.64	31.42	89.24	-407.24	489.88	4,678.69	4,600.74	77.95	60.021		
11,800.00	7,870.00	7,892.31	7,799.76	112.53	31.42	89.24	-407.24	489.88	4,675.31	4,596.63	78.68	59.425		
11,900.00	7,870.00	7,891.96	7,799.40	112.44	31.42	89.23	-407.24	489.89	4,674.06	4,594.63	79.44	58.841		
11,908.18	7,870.00	7,891.93	7,799.37	112.43	31.42	89.23	-407.24	489.89	4,674.05	4,594.55	79.50	58.793		
12,000.00	7,870.00	7,891.62	7,799.06	112.36	31.42	89.23	-407.24	489.89	4,674.96	4,594.73	80.23	58.273		
12,100.00	7,870.00	7,891.28	7,798.73	112.29	31.42	89.22	-407.24	489.90	4,677.99	4,596.94	81.04	57.722		
12,200.00	7,870.00	7,890.97	7,798.41	112.24	31.41	89.22	-407.24	489.90	4,683.15	4,601.27	81.88	57.193		
12,300.00	7,870.00	7,890.66	7,798.10	112.20	31.41	89.22	-407.24	489.90	4,690.45	4,607.70	82.74	56.686		
12,400.00	7,870.00	7,890.35	7,797.80	112.17	31.41	89.21	-407.24	489.91	4,699.86	4,616.24	83.62	56.204		
12,500.00	7,870.00	7,890.06	7,797.51	112.16	31.41	89.21	-407.25	489.91	4,711.37	4,626.86	84.51	55.749		
12,600.00	7,870.00	7,889.78	7,797.23	112.17	31.41	89.21	-407.25	489.92	4,724.97	4,639.56	85.41	55.321		
12,700.00	7,870.00	7,889.51	7,796.95	112.19	31.41	89.20	-407.25	489.92	4,740.65	4,654.33	86.31	54.923		
12,800.00	7,870.00	7,889.24	7,796.69	112.23	31.41	89.20	-407.25	489.92	4,758.37	4,671.15	87.22	54.554		
12,900.00	7,870.00	7,888.98	7,796.43	112.28	31.41	89.20	-407.25	489.93	4,778.12	4,689.99	88.13	54.216		
13,000.00	7,870.00	7,888.73	7,796.18	112.36	31.41	89.19	-407.25	489.93	4,799.88	4,710.84	89.04	53.908		
13,100.00	7,870.00	7,888.48	7,795.93	112.45	31.41	89.19	-407.25	489.93	4,823.61	4,733.67	89.94	53.631		
13,200.00	7,870.00	7,888.25	7,795.69	112.56	31.41	89.19	-407.25	489.94	4,849.28	4,758.45	90.83	53.386		
13,300.00	7,870.00	7,888.01	7,795.46	112.68	31.41	89.18	-407.25	489.94	4,876.87	4,785.15	91.72	53.171		
13,400.00	7,870.00	7,887.79	7,795.24	112.83	31.41	89.18	-407.25	489.94	4,906.35	4,813.75	92.60	52.987		
13,500.00	7,870.00	7,887.57	7,795.02	113.00	31.41	89.18	-407.25	489.95	4,937.67	4,844.22	93.46	52.832		
13,600.00	7,870.00	7,887.36	7,794.80	113.19	31.40	89.18	-407.26	489.95	4,970.81	4,876.51	94.31	52.708		
13,700.00	7,870.00	7,887.15	7,794.59	113.40	31.40	89.17	-407.26	489.95	5,005.73	4,910.59	95.14	52.613		
13,800.00	7,870.00	7,886.94	7,794.39	113.63	31.40	89.17	-407.26	489.95	5,042.39	4,946.43	95.96	52.547		
13,900.00	7,870.00	7,886.75	7,794.19	113.89	31.40	89.17	-407.26	489.96	5,080.75	4,983.99	96.76	52.508		
14,000.00	7,870.00	7,886.55	7,794.00	114.18	31.40	89.17	-407.26	489.96	5,120.78	5,023.24	97.54	52.497		
14,100.00	7,870.00	7,886.36	7,793.81	114.48	31.40	89.16	-407.26	489.96	5,162.44	5,064.13	98.31	52.512		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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		
14,200.00	7,870.00	7,886.18	7,793.63	114.82	31.40	89.16	-407.26	489.96	5,205.68	5,106.63	99.05	52.553		
14,300.00	7,870.00	7,886.00	7,793.45	115.18	31.40	89.16	-407.26	489.97	5,250.48	5,150.70	99.78	52.620		
14,400.00	7,870.00	7,885.83	7,793.27	115.57	31.40	89.16	-407.26	489.97	5,296.78	5,196.29	100.49	52.710		
14,500.00	7,870.00	7,885.65	7,793.10	115.99	31.40	89.16	-407.26	489.97	5,344.55	5,243.38	101.18	52.825		
14,600.00	7,870.00	7,885.49	7,792.93	116.44	31.40	89.15	-407.26	489.97	5,393.75	5,291.91	101.84	52.962		
14,700.00	7,870.00	7,885.32	7,792.77	116.92	31.40	89.15	-407.26	489.97	5,444.35	5,341.86	102.49	53.121		
14,800.00	7,870.00	7,885.16	7,792.61	117.44	31.40	89.15	-407.26	489.98	5,496.30	5,393.18	103.12	53.301		
14,900.00	7,870.00	7,885.01	7,792.45	117.98	31.40	89.15	-407.26	489.98	5,549.56	5,445.84	103.73	53.502		
15,000.00	7,870.00	7,884.85	7,792.30	118.56	31.40	89.15	-407.26	489.98	5,604.11	5,499.79	104.32	53.723		
15,100.00	7,870.00	7,884.70	7,792.15	119.17	31.40	89.14	-407.26	489.98	5,659.89	5,555.01	104.89	53.963		
15,200.00	7,870.00	7,884.56	7,792.00	119.81	31.40	89.14	-407.26	489.98	5,716.88	5,611.45	105.44	54.221		
15,300.00	7,870.00	7,884.41	7,791.86	120.48	31.40	89.14	-407.26	489.99	5,775.04	5,669.07	105.97	54.498		
15,400.00	7,870.00	7,884.27	7,791.72	121.19	31.40	89.14	-407.26	489.99	5,834.33	5,727.85	106.48	54.791		
15,500.00	7,870.00	7,884.14	7,791.58	121.93	31.40	89.14	-407.27	489.99	5,894.73	5,787.75	106.98	55.101		
15,600.00	7,870.00	7,884.00	7,791.45	122.71	31.40	89.14	-407.27	489.99	5,956.19	5,848.73	107.46	55.427		
15,700.00	7,870.00	7,883.87	7,791.32	123.52	31.39	89.13	-407.27	489.99	6,018.68	5,910.76	107.92	55.768		
15,800.00	7,870.00	7,883.74	7,791.19	124.36	31.39	89.13	-407.27	490.00	6,082.18	5,973.81	108.37	56.124		
15,900.00	7,870.00	7,883.61	7,791.06	125.23	31.39	89.13	-407.27	490.00	6,146.64	6,037.84	108.80	56.495		
16,000.00	7,870.00	7,883.49	7,790.94	126.14	31.39	89.13	-407.27	490.00	6,212.05	6,102.84	109.22	56.879		
16,100.00	7,870.00	7,883.37	7,790.81	127.07	31.39	89.13	-407.27	490.00	6,278.37	6,168.76	109.62	57.276		
16,200.00	7,870.00	7,883.25	7,790.69	128.04	31.39	89.13	-407.27	490.00	6,345.57	6,235.57	110.00	57.686		
16,300.00	7,870.00	7,883.13	7,790.58	129.04	31.39	89.12	-407.27	490.00	6,413.63	6,303.26	110.37	58.108		
16,400.00	7,870.00	7,883.02	7,790.46	130.06	31.39	89.12	-407.27	490.00	6,482.52	6,371.78	110.73	58.542		
16,500.00	7,870.00	7,882.90	7,790.35	131.11	31.39	89.12	-407.27	490.01	6,552.20	6,441.13	111.08	58.987		
16,600.00	7,870.00	7,882.79	7,790.24	132.19	31.39	89.12	-407.27	490.01	6,622.67	6,511.26	111.41	59.443		
16,700.00	7,870.00	7,882.68	7,790.13	133.29	31.39	89.12	-407.27	490.01	6,693.89	6,582.15	111.73	59.910		
16,800.00	7,870.00	7,882.58	7,790.02	134.42	31.39	89.12	-407.27	490.01	6,765.83	6,653.79	112.04	60.387		
16,900.00	7,870.00	7,882.47	7,789.92	135.57	31.39	89.12	-407.27	490.01	6,838.48	6,726.14	112.34	60.873		
17,000.00	7,870.00	7,882.37	7,789.82	136.75	31.39	89.12	-407.27	490.01	6,911.81	6,799.19	112.63	61.369		
17,100.00	7,870.00	7,882.27	7,789.72	137.94	31.39	89.11	-407.27	490.01	6,985.81	6,872.91	112.90	61.874		
17,200.00	7,870.00	7,882.17	7,789.62	139.16	31.39	89.11	-407.27	490.02	7,060.45	6,947.28	113.17	62.388		
17,300.00	7,870.00	7,882.07	7,789.52	140.39	31.39	89.11	-407.27	490.02	7,135.70	7,022.28	113.43	62.910		
17,400.00	7,870.00	7,881.98	7,789.42	141.65	31.39	89.11	-407.27	490.02	7,211.56	7,097.89	113.67	63.441		
17,500.00	7,870.00	7,881.88	7,789.33	142.92	31.39	89.11	-407.27	490.02	7,288.00	7,174.09	113.91	63.979		
17,600.00	7,870.00	7,881.79	7,789.24	144.21	31.39	89.11	-407.27	490.02	7,365.01	7,250.86	114.14	64.524		
17,700.00	7,870.00	7,859.00	7,766.45	145.52	31.32	88.83	-407.27	490.30	7,442.64	7,328.39	114.25	65.143		
17,800.00	7,870.00	7,859.00	7,766.45	146.84	31.32	88.83	-407.27	490.30	7,520.72	7,406.25	114.47	65.703		
17,900.00	7,870.00	7,859.00	7,766.45	148.18	31.32	88.83	-407.27	490.30	7,599.32	7,484.64	114.67	66.269		
18,000.00	7,870.00	7,859.00	7,766.45	149.54	31.32	88.83	-407.27	490.30	7,678.41	7,563.53	114.88	66.841		
18,100.00	7,870.00	7,859.00	7,766.45	150.90	31.32	88.83	-407.27	490.30	7,757.98	7,642.91	115.07	67.420		
18,200.00	7,870.00	7,859.00	7,766.45	152.28	31.32	88.83	-407.27	490.30	7,838.03	7,722.77	115.26	68.005		
18,300.00	7,870.00	7,859.00	7,766.45	153.67	31.32	88.83	-407.27	490.30	7,918.52	7,803.09	115.44	68.596		
18,400.00	7,870.00	7,859.00	7,766.45	155.07	31.32	88.83	-407.27	490.30	7,999.46	7,883.85	115.61	69.192		
18,500.00	7,870.00	7,859.00	7,766.45	156.49	31.32	88.83	-407.27	490.30	8,080.83	7,965.04	115.78	69.794		
18,600.00	7,870.00	7,859.00	7,766.45	157.91	31.32	88.83	-407.27	490.30	8,162.60	8,046.66	115.94	70.401		
18,700.00	7,870.00	7,859.00	7,766.45	159.35	31.32	88.83	-407.27	490.30	8,244.78	8,128.68	116.10	71.013		
18,800.00	7,870.00	7,859.00	7,766.45	160.79	31.32	88.83	-407.27	490.30	8,327.35	8,211.10	116.25	71.630		
18,900.00	7,870.00	7,859.00	7,766.45	162.25	31.32	88.83	-407.27	490.30	8,410.30	8,293.90	116.40	72.252		
19,000.00	7,870.00	7,859.00	7,766.45	163.71	31.32	88.83	-407.27	490.30	8,493.62	8,377.07	116.55	72.878		
19,100.00	7,870.00	7,859.00	7,766.45	165.18	31.32	88.83	-407.27	490.30	8,577.29	8,460.61	116.68	73.509		
19,200.00	7,870.00	7,859.00	7,766.45	166.66	31.32	88.83	-407.27	490.30	8,661.31	8,544.49	116.82	74.144		
19,300.00	7,870.00	7,859.00	7,766.45	168.15	31.32	88.83	-407.27	490.30	8,745.66	8,628.71	116.95	74.783		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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	
19,400.00	7,870.00	7,859.00	7,766.45	169.65	31.32	88.83	-407.27	490.30	8,830.34	8,713.27	117.07	75.426	
19,500.00	7,870.00	7,859.00	7,766.45	171.15	31.32	88.83	-407.27	490.30	8,915.34	8,798.15	117.20	76.072	
19,600.00	7,870.00	7,859.00	7,766.45	172.66	31.32	88.83	-407.27	490.30	9,000.65	8,883.34	117.31	76.723	
19,700.00	7,870.00	7,859.00	7,766.45	174.18	31.32	88.83	-407.27	490.30	9,086.26	8,968.83	117.43	77.377	
19,800.00	7,870.00	7,859.00	7,766.45	175.70	31.32	88.83	-407.27	490.30	9,172.15	9,054.61	117.54	78.034	
19,889.26	7,870.00	7,859.00	7,766.45	177.06	31.32	88.83	-407.27	490.30	9,249.06	9,131.42	117.64	78.624	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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	-38.82	218.57	-175.84	280.64				
100.00	100.00	92.34	92.34	0.13	0.15	-38.93	218.19	-176.22	280.47	280.18	0.29	983.549	
155.26	155.26	147.80	147.79	0.33	0.24	-39.10	217.60	-176.82	280.38	279.81	0.57	488.681 CC	
200.00	200.00	189.51	189.50	0.49	0.40	-39.16	217.57	-177.17	280.60	279.70	0.90	312.405 ES	
300.00	300.00	281.10	281.06	0.85	0.73	-38.90	219.90	-177.42	282.76	281.18	1.58	178.677	
400.00	399.98	372.37	372.09	1.21	1.06	-106.46	226.27	-177.56	288.80	286.53	2.27	127.485	
500.00	499.84	463.96	463.17	1.56	1.40	-105.96	235.98	-177.33	298.46	295.50	2.96	100.863	
600.00	599.45	553.80	552.14	1.93	1.76	-105.74	248.33	-177.68	311.94	308.28	3.66	85.155	
700.00	698.70	641.96	638.94	2.32	2.13	-105.62	263.76	-178.24	329.46	325.08	4.38	75.190	
800.00	797.47	728.89	723.89	2.72	2.54	-105.62	282.11	-179.24	351.06	345.94	5.12	68.547	
900.00	895.62	814.15	806.51	3.16	2.96	-105.69	303.12	-180.54	376.60	370.71	5.89	63.974	
1,000.00	993.06	900.25	889.06	3.63	3.42	-105.77	327.53	-182.02	406.04	399.34	6.70	60.625	
1,100.00	1,089.64	993.98	978.60	4.14	3.95	-106.15	355.19	-184.00	437.61	430.02	7.60	57.603	
1,200.00	1,185.27	1,087.39	1,067.90	4.70	4.48	-106.81	382.52	-185.87	470.04	461.48	8.56	54.931	
1,300.00	1,279.82	1,174.85	1,151.14	5.31	5.00	-107.48	409.30	-187.69	504.69	495.16	9.52	52.989	
1,400.00	1,373.17	1,267.90	1,239.64	5.97	5.55	-108.39	437.94	-189.85	540.94	530.35	10.59	51.084	
1,500.00	1,465.21	1,358.81	1,326.14	6.69	6.10	-109.38	465.84	-191.90	578.52	566.83	11.69	49.486	
1,600.00	1,555.84	1,445.30	1,408.22	7.47	6.63	-110.30	493.05	-193.68	618.05	605.24	12.81	48.243	
1,700.00	1,644.94	1,531.53	1,489.74	8.31	7.17	-111.19	521.13	-195.18	659.67	645.69	13.99	47.169	
1,800.00	1,732.39	1,613.80	1,567.29	9.23	7.70	-111.98	548.55	-196.70	703.55	688.37	15.18	46.358	
1,900.00	1,818.11	1,697.54	1,646.15	10.21	8.24	-112.84	576.65	-198.66	749.68	733.25	16.42	45.643	
2,000.00	1,901.97	1,780.78	1,724.62	11.26	8.77	-113.74	604.31	-201.07	797.88	780.18	17.70	45.066	
2,100.00	1,983.88	1,862.58	1,801.90	12.38	9.29	-114.64	630.96	-203.92	848.17	829.17	19.00	44.641	
2,200.00	2,063.74	1,945.37	1,880.32	13.57	9.81	-115.60	657.29	-207.22	900.54	880.22	20.33	44.302	
2,300.00	2,141.45	2,025.35	1,956.42	14.84	10.31	-116.54	681.63	-210.75	954.81	933.17	21.64	44.124	
2,327.78	2,162.65	2,046.06	1,976.16	15.21	10.43	-116.76	687.82	-211.75	970.30	948.31	21.99	44.126	
2,400.00	2,217.51	2,102.35	2,029.87	16.17	10.77	-118.23	704.45	-214.61	1,011.10	988.19	22.92	44.118	
2,500.00	2,293.49	2,193.25	2,116.76	17.51	11.32	-120.40	730.82	-218.66	1,067.74	1,043.41	24.32	43.897	
2,600.00	2,369.47	2,284.96	2,204.66	18.86	11.86	-122.38	756.81	-221.73	1,124.14	1,098.42	25.72	43.710	
2,700.00	2,445.45	2,369.85	2,286.22	20.22	12.35	-124.05	780.26	-224.04	1,180.52	1,153.50	27.02	43.692	
2,800.00	2,521.42	2,463.73	2,376.65	21.59	12.88	-125.75	805.39	-225.93	1,236.73	1,208.34	28.39	43.561 SF	
2,900.00	2,597.40	2,541.03	2,451.19	22.97	13.31	-127.04	825.82	-227.14	1,293.04	1,263.47	29.57	43.721	
3,000.00	2,673.38	2,621.12	2,528.42	24.34	13.76	-128.28	847.01	-228.38	1,349.81	1,319.04	30.77	43.861	
3,100.00	2,749.36	2,700.51	2,605.02	25.73	14.21	-129.41	867.82	-229.59	1,406.91	1,374.96	31.95	44.032	
3,200.00	2,825.33	2,798.95	2,700.12	27.11	14.75	-130.73	893.21	-230.80	1,464.12	1,430.80	33.32	43.946	
3,300.00	2,901.31	2,888.08	2,786.18	28.50	15.25	-131.79	916.39	-230.40	1,520.35	1,485.77	34.58	43.965	
3,400.00	2,977.29	2,961.16	2,856.74	29.90	15.65	-132.60	935.40	-230.17	1,577.00	1,541.33	35.67	44.212	
3,500.00	3,053.27	3,032.65	2,925.84	31.29	16.04	-133.36	953.77	-230.45	1,634.36	1,597.63	36.73	44.502	
3,600.00	3,129.24	3,118.12	3,008.19	32.69	16.52	-134.18	976.60	-230.54	1,691.96	1,654.02	37.94	44.596	
3,700.00	3,205.22	3,183.72	3,071.08	34.08	16.91	-134.72	995.29	-230.48	1,749.96	1,711.00	38.96	44.919	
3,800.00	3,281.20	3,281.15	3,164.11	35.48	17.49	-135.43	1,024.20	-230.23	1,808.27	1,767.91	40.36	44.806	
3,900.00	3,357.18	3,360.57	3,240.01	36.88	17.97	-135.97	1,047.58	-229.33	1,865.91	1,824.37	41.54	44.914	
4,000.00	3,433.15	3,454.48	3,329.68	38.29	18.53	-136.56	1,075.49	-228.33	1,923.81	1,880.90	42.90	44.839	
4,100.00	3,509.13	3,549.71	3,420.45	39.69	19.10	-137.09	1,104.19	-226.09	1,980.80	1,936.52	44.29	44.728	
4,200.00	3,585.11	3,609.47	3,477.57	41.09	19.46	-137.43	1,121.71	-224.79	2,037.98	1,992.74	45.23	45.054	
4,300.00	3,661.08	3,651.40	3,517.63	42.50	19.71	-137.66	1,134.08	-224.62	2,096.60	2,050.64	45.95	45.627	
4,400.00	3,737.06	3,708.94	3,572.59	43.90	20.05	-137.97	1,151.09	-225.42	2,156.62	2,109.78	46.84	46.043	
4,500.00	3,813.04	3,792.27	3,652.61	45.31	20.54	-138.44	1,174.27	-226.92	2,216.83	2,168.81	48.02	46.165	
4,600.00	3,889.02	3,873.61	3,730.96	46.71	21.00	-138.91	1,196.10	-228.45	2,277.05	2,227.89	49.15	46.325	
4,700.00	3,964.99	3,975.30	3,828.77	48.12	21.59	-139.44	1,223.90	-229.66	2,336.88	2,286.35	50.54	46.240	
4,800.00	4,040.97	4,050.27	3,900.84	49.53	22.02	-139.81	1,244.52	-230.29	2,396.55	2,344.94	51.61	46.438	
4,900.00	4,116.95	4,161.89	4,008.42	50.94	22.65	-140.34	1,274.29	-230.59	2,455.70	2,402.61	53.09	46.251	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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	4,192.93	4,244.98	4,088.34	52.35	23.12	-140.70	1,297.00	-230.15	2,514.41	2,460.15	54.26	46.343		
5,100.00	4,268.90	4,331.51	4,171.37	53.76	23.63	-141.04	1,321.35	-229.40	2,573.02	2,517.54	55.48	46.381		
5,200.00	4,344.88	4,390.47	4,227.97	55.16	23.97	-141.26	1,337.86	-229.06	2,631.88	2,575.52	56.36	46.700		
5,300.00	4,420.86	4,445.70	4,281.01	56.57	24.29	-141.47	1,353.27	-229.23	2,691.48	2,634.30	57.18	47.068		
5,400.00	4,496.84	4,496.61	4,329.96	57.98	24.58	-141.66	1,367.25	-229.94	2,751.91	2,693.97	57.94	47.494		
5,500.00	4,572.81	4,621.51	4,450.04	59.39	25.30	-142.11	1,401.53	-231.81	2,812.67	2,753.06	59.61	47.183		
5,600.00	4,648.79	4,732.23	4,556.02	60.81	25.95	-142.44	1,433.53	-231.08	2,871.71	2,810.56	61.14	46.966		
5,700.00	4,724.77	4,804.10	4,624.67	62.22	26.38	-142.62	1,454.81	-230.36	2,930.61	2,868.41	62.20	47.113		
5,800.00	4,800.74	4,889.08	4,706.11	63.63	26.88	-142.86	1,479.06	-229.67	2,989.59	2,926.18	63.41	47.150		
5,900.00	4,876.72	4,957.16	4,771.70	65.04	27.27	-143.07	1,497.33	-229.35	3,048.68	2,984.31	64.37	47.362		
6,000.00	4,952.70	5,020.30	4,832.69	66.45	27.62	-143.28	1,513.67	-229.42	3,108.17	3,042.92	65.25	47.631		
6,100.00	5,028.68	5,083.00	4,893.40	67.86	27.96	-143.49	1,529.32	-229.96	3,168.19	3,102.07	66.12	47.916		
6,200.00	5,104.65	5,145.03	4,953.55	69.27	28.29	-143.70	1,544.44	-230.86	3,228.66	3,161.70	66.96	48.218		
6,300.00	5,180.63	5,217.51	5,023.95	70.69	28.67	-143.96	1,561.64	-232.24	3,289.47	3,221.56	67.90	48.442		
6,400.00	5,256.61	5,303.58	5,108.07	72.10	29.09	-144.30	1,579.73	-234.10	3,350.31	3,281.36	68.95	48.588		
6,500.00	5,332.59	5,400.08	5,203.02	73.51	29.53	-144.73	1,596.79	-236.09	3,410.85	3,340.82	70.03	48.704		
6,600.00	5,408.56	5,488.22	5,290.22	74.92	29.88	-145.17	1,609.48	-237.81	3,471.13	3,400.18	70.95	48.922		
6,700.00	5,484.54	5,568.28	5,369.73	76.34	30.18	-145.60	1,618.64	-239.46	3,531.41	3,459.66	71.74	49.225		
6,800.00	5,560.52	5,646.78	5,447.87	77.75	30.46	-146.04	1,626.09	-241.17	3,591.76	3,519.28	72.47	49.559		
6,900.00	5,636.50	5,712.55	5,513.43	79.16	30.66	-146.42	1,631.03	-242.78	3,652.35	3,579.28	73.07	49.988		
7,000.00	5,712.47	5,823.48	5,624.20	80.57	30.98	-147.10	1,636.25	-245.54	3,713.02	3,639.10	73.92	50.232		
7,100.00	5,788.45	5,967.18	5,767.84	81.99	31.35	-148.00	1,639.68	-246.69	3,772.22	3,697.32	74.90	50.366		
7,200.00	5,864.43	6,034.23	5,834.88	83.40	31.51	-148.41	1,640.92	-246.90	3,831.40	3,755.99	75.41	50.808		
7,300.00	5,940.40	6,091.79	5,892.44	84.81	31.65	-148.76	1,641.43	-247.33	3,891.06	3,815.20	75.85	51.299		
7,400.00	6,016.38	6,157.89	5,958.54	86.23	31.80	-149.17	1,641.42	-248.12	3,951.19	3,874.87	76.33	51.768		
7,500.00	6,092.36	6,236.40	6,037.03	87.64	31.98	-149.63	1,641.72	-249.11	4,011.58	3,934.71	76.87	52.185		
7,600.00	6,168.34	6,319.37	6,120.00	89.05	32.18	-150.10	1,642.19	-249.94	4,071.93	3,994.48	77.45	52.575		
7,700.00	6,244.31	6,381.47	6,182.09	90.47	32.33	-150.45	1,642.63	-250.64	4,132.55	4,054.64	77.91	53.041		
7,800.00	6,320.29	6,473.49	6,274.11	91.88	32.55	-150.94	1,643.47	-251.70	4,193.34	4,114.79	78.55	53.381		
7,900.00	6,396.27	6,551.06	6,351.67	93.30	32.74	-151.35	1,644.09	-252.35	4,254.04	4,174.93	79.11	53.774		
8,000.00	6,472.25	6,660.64	6,461.25	94.71	33.01	-151.91	1,644.28	-252.98	4,314.70	4,234.86	79.84	54.042		
8,100.00	6,548.22	6,747.66	6,548.27	96.12	33.22	-152.34	1,644.82	-252.89	4,374.95	4,294.49	80.45	54.378		
8,200.00	6,624.20	6,810.22	6,610.82	97.54	33.39	-152.64	1,645.61	-252.83	4,435.34	4,354.40	80.94	54.800		
8,300.00	6,700.18	6,867.04	6,667.63	98.95	33.54	-152.90	1,646.57	-253.04	4,496.18	4,414.79	81.39	55.244		
8,400.00	6,776.16	6,933.12	6,733.70	100.37	33.71	-153.19	1,647.86	-253.49	4,557.36	4,475.46	81.90	55.644		
8,500.00	6,852.13	7,023.37	6,823.92	101.78	33.96	-153.57	1,649.82	-254.13	4,618.69	4,536.11	82.58	55.931		
8,600.00	6,928.11	7,104.16	6,904.69	103.20	34.18	-153.91	1,651.68	-254.44	4,679.84	4,596.65	83.20	56.251		
8,700.00	7,004.09	7,176.64	6,977.16	104.61	34.38	-154.20	1,653.08	-254.74	4,741.13	4,657.37	83.76	56.606		
8,800.00	7,080.06	7,251.51	7,052.02	106.02	34.59	-154.50	1,654.48	-255.12	4,802.57	4,718.24	84.33	56.948		
8,900.00	7,156.04	7,382.63	7,183.07	107.44	34.97	-154.99	1,658.40	-255.32	4,863.91	4,778.59	85.31	57.013		
9,000.00	7,232.02	7,493.74	7,294.11	108.85	35.28	-155.39	1,661.83	-254.06	4,924.16	4,838.01	86.15	57.161		
9,104.68	7,311.55	7,553.03	7,353.39	110.33	35.42	-155.63	1,661.22	-253.26	4,987.38	4,900.79	86.59	57.597		
9,150.00	7,346.29	7,575.07	7,375.42	110.97	35.47	-164.42	1,660.73	-253.04	5,015.07	4,928.32	86.75	57.809		
9,200.00	7,385.15	7,609.00	7,409.34	111.65	35.55	-174.51	1,659.71	-252.81	5,045.96	4,958.99	86.98	58.016		
9,250.00	7,424.29	7,650.00	7,475.93	112.31	39.16	175.28	1,657.58	-251.92	5,076.52	4,985.70	90.82	55.896		
9,300.00	7,463.40	7,744.51	7,544.76	112.93	35.85	165.31	1,655.51	-250.71	5,106.69	5,018.94	87.75	58.197		
9,350.00	7,502.19	7,774.44	7,574.68	113.51	35.92	155.69	1,654.70	-250.17	5,136.41	5,048.48	87.93	58.418		
9,400.00	7,540.36	7,809.34	7,609.56	114.04	36.00	146.66	1,653.80	-249.61	5,165.51	5,077.39	88.12	58.618		
9,450.00	7,577.62	7,861.14	7,661.34	114.53	36.11	138.44	1,652.43	-248.71	5,193.68	5,105.28	88.40	58.749		
9,500.00	7,613.70	8,178.05	7,977.50	114.95	36.80	132.68	1,638.17	-233.84	5,219.58	5,129.68	89.90	58.062		
9,550.00	7,648.30	8,171.00	7,970.48	115.32	36.78	125.93	1,638.61	-234.36	5,243.64	5,153.75	89.89	58.331		
9,600.00	7,681.18	8,171.00	7,970.48	115.63	36.78	119.93	1,638.61	-234.36	5,266.66	5,176.74	89.92	58.571		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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		
9,650.00	7,712.08	8,204.03	8,003.39	115.88	36.86	114.89	1,636.84	-232.20	5,288.13	5,198.03	90.10	58.694		
9,700.00	7,740.76	8,213.17	8,012.50	116.08	36.88	110.34	1,636.45	-231.69	5,308.37	5,218.19	90.17	58.868		
9,750.00	7,767.01	8,221.47	8,020.79	116.23	36.90	106.38	1,636.13	-231.26	5,327.09	5,236.83	90.26	59.019		
9,800.00	7,790.63	8,228.88	8,028.19	116.33	36.91	102.99	1,635.87	-230.91	5,344.18	5,253.83	90.36	59.145		
9,850.00	7,811.44	8,264.00	8,063.27	116.38	36.99	100.40	1,635.04	-229.58	5,359.81	5,269.19	90.62	59.148		
9,900.00	7,829.28	8,264.00	8,063.27	116.38	36.99	97.95	1,635.04	-229.58	5,373.25	5,282.53	90.72	59.230		
9,950.00	7,844.01	8,264.00	8,063.27	116.35	36.99	95.96	1,635.04	-229.58	5,384.81	5,293.96	90.85	59.274		
10,000.00	7,855.52	8,264.00	8,063.27	116.28	36.99	94.40	1,635.04	-229.58	5,394.43	5,303.43	91.00	59.278		
10,050.00	7,863.72	8,264.00	8,063.27	116.18	36.99	93.24	1,635.04	-229.58	5,402.03	5,310.85	91.19	59.241		
10,100.00	7,868.56	8,264.00	8,063.27	116.06	36.99	92.49	1,635.04	-229.58	5,407.58	5,316.17	91.41	59.160		
10,145.94	7,870.00	8,264.00	8,063.27	115.92	36.99	92.13	1,635.04	-229.58	5,410.83	5,319.19	91.63	59.048		
10,200.00	7,870.00	8,264.00	8,063.27	115.76	36.99	92.13	1,635.04	-229.58	5,413.87	5,321.95	91.92	58.896		
10,300.00	7,870.00	8,264.00	8,063.27	115.46	36.99	92.13	1,635.04	-229.58	5,420.92	5,328.45	92.47	58.624		
10,400.00	7,870.00	8,264.00	8,063.27	115.18	36.99	92.13	1,635.04	-229.58	5,429.79	5,336.76	93.03	58.365		
10,500.00	7,870.00	8,264.00	8,063.27	114.91	36.99	92.13	1,635.04	-229.58	5,440.50	5,346.89	93.61	58.121		
10,600.00	7,870.00	8,264.00	8,063.27	114.65	36.99	92.13	1,635.04	-229.58	5,453.01	5,358.82	94.19	57.892		
10,700.00	7,870.00	8,264.00	8,063.27	114.41	36.99	92.13	1,635.04	-229.58	5,467.33	5,372.54	94.79	57.679		
10,800.00	7,870.00	8,264.00	8,063.27	114.17	36.99	92.13	1,635.04	-229.58	5,483.43	5,388.04	95.39	57.484		
10,900.00	7,870.00	8,264.00	8,063.27	113.95	36.99	92.13	1,635.04	-229.58	5,501.30	5,405.30	96.00	57.305		
11,000.00	7,870.00	8,264.00	8,063.27	113.75	36.99	92.13	1,635.04	-229.58	5,520.93	5,424.32	96.61	57.145		
11,100.00	7,870.00	8,264.00	8,063.27	113.55	36.99	92.13	1,635.04	-229.58	5,542.29	5,445.06	97.23	57.004		
11,200.00	7,870.00	8,264.00	8,063.27	113.37	36.99	92.13	1,635.04	-229.58	5,565.37	5,467.53	97.84	56.881		
11,300.00	7,870.00	8,264.00	8,063.27	113.20	36.99	92.13	1,635.04	-229.58	5,590.14	5,491.68	98.46	56.778		
11,400.00	7,870.00	8,264.00	8,063.27	113.04	36.99	92.13	1,635.04	-229.58	5,616.58	5,517.51	99.07	56.694		
11,500.00	7,870.00	8,264.00	8,063.27	112.89	36.99	92.13	1,635.04	-229.58	5,644.67	5,545.00	99.68	56.630		
11,600.00	7,870.00	8,264.00	8,063.27	112.76	36.99	92.13	1,635.04	-229.58	5,674.39	5,574.11	100.28	56.585		
11,700.00	7,870.00	8,264.00	8,063.27	112.64	36.99	92.13	1,635.04	-229.58	5,705.70	5,604.82	100.88	56.560		
11,800.00	7,870.00	8,264.00	8,063.27	112.53	36.99	92.13	1,635.04	-229.58	5,738.58	5,637.11	101.47	56.555		
11,900.00	7,870.00	8,264.00	8,063.27	112.44	36.99	92.13	1,635.04	-229.58	5,773.01	5,670.96	102.05	56.569		
12,000.00	7,870.00	8,264.00	8,063.27	112.36	36.99	92.13	1,635.04	-229.58	5,808.96	5,706.33	102.63	56.603		
12,100.00	7,870.00	8,264.00	8,063.27	112.29	36.99	92.13	1,635.04	-229.58	5,846.39	5,743.20	103.19	56.655		
12,200.00	7,870.00	8,264.00	8,063.27	112.24	36.99	92.13	1,635.04	-229.58	5,885.29	5,781.54	103.75	56.727		
12,300.00	7,870.00	8,264.00	8,063.27	112.20	36.99	92.13	1,635.04	-229.58	5,925.62	5,821.33	104.29	56.817		
12,400.00	7,870.00	8,264.00	8,063.27	112.17	36.99	92.13	1,635.04	-229.58	5,967.35	5,862.53	104.83	56.926		
12,500.00	7,870.00	8,264.00	8,063.27	112.16	36.99	92.13	1,635.04	-229.58	6,010.46	5,905.11	105.35	57.052		
12,600.00	7,870.00	8,264.00	8,063.27	112.17	36.99	92.13	1,635.04	-229.58	6,054.91	5,949.05	105.86	57.197		
12,700.00	7,870.00	8,264.00	8,063.27	112.19	36.99	92.13	1,635.04	-229.58	6,100.68	5,994.32	106.36	57.358		
12,800.00	7,870.00	8,264.00	8,063.27	112.23	36.99	92.13	1,635.04	-229.58	6,147.74	6,040.89	106.85	57.537		
12,900.00	7,870.00	8,264.00	8,063.27	112.28	36.99	92.13	1,635.04	-229.58	6,196.05	6,088.72	107.32	57.732		
13,000.00	7,870.00	8,264.00	8,063.27	112.36	36.99	92.13	1,635.04	-229.58	6,245.58	6,137.80	107.79	57.944		
13,100.00	7,870.00	8,264.00	8,063.27	112.45	36.99	92.13	1,635.04	-229.58	6,296.32	6,188.08	108.24	58.171		
13,200.00	7,870.00	8,264.00	8,063.27	112.56	36.99	92.13	1,635.04	-229.58	6,348.23	6,239.55	108.68	58.414		
13,300.00	7,870.00	8,264.00	8,063.27	112.68	36.99	92.13	1,635.04	-229.58	6,401.27	6,292.17	109.10	58.672		
13,400.00	7,870.00	8,264.00	8,063.27	112.83	36.99	92.13	1,635.04	-229.58	6,455.44	6,345.92	109.52	58.945		
13,500.00	7,870.00	8,264.00	8,063.27	113.00	36.99	92.13	1,635.04	-229.58	6,510.68	6,400.76	109.92	59.232		
13,600.00	7,870.00	8,264.00	8,063.27	113.19	36.99	92.13	1,635.04	-229.58	6,566.99	6,456.68	110.31	59.533		
13,700.00	7,870.00	8,264.00	8,063.27	113.40	36.99	92.13	1,635.04	-229.58	6,624.32	6,513.64	110.69	59.847		
13,800.00	7,870.00	8,264.00	8,063.27	113.63	36.99	92.13	1,635.04	-229.58	6,682.66	6,571.61	111.05	60.175		
13,900.00	7,870.00	8,264.00	8,063.27	113.89	36.99	92.13	1,635.04	-229.58	6,741.98	6,630.57	111.41	60.515		
14,000.00	7,870.00	8,264.00	8,063.27	114.18	36.99	92.13	1,635.04	-229.58	6,802.25	6,690.50	111.75	60.868		
14,100.00	7,870.00	8,264.00	8,063.27	114.48	36.99	92.13	1,635.04	-229.58	6,863.45	6,751.37	112.09	61.233		
14,200.00	7,870.00	8,264.00	8,063.27	114.82	36.99	92.13	1,635.04	-229.58	6,925.56	6,813.14	112.41	61.609		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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		
14,300.00	7,870.00	8,264.00	8,063.27	115.18	36.99	92.13	1,635.04	-229.58	6,988.54	6,875.81	112.72	61.997		
14,400.00	7,870.00	8,264.00	8,063.27	115.57	36.99	92.13	1,635.04	-229.58	7,052.37	6,939.35	113.03	62.396		
14,500.00	7,870.00	8,264.00	8,063.27	115.99	36.99	92.13	1,635.04	-229.58	7,117.04	7,003.73	113.32	62.806		
14,600.00	7,870.00	8,264.00	8,063.27	116.44	36.99	92.13	1,635.04	-229.58	7,182.52	7,068.92	113.60	63.226		
14,700.00	7,870.00	8,264.00	8,063.27	116.92	36.99	92.13	1,635.04	-229.58	7,248.79	7,134.92	113.88	63.655		
14,800.00	7,870.00	8,264.00	8,063.27	117.44	36.99	92.13	1,635.04	-229.58	7,315.83	7,201.69	114.14	64.095		
14,900.00	7,870.00	8,264.00	8,063.27	117.98	36.99	92.13	1,635.04	-229.58	7,383.61	7,269.21	114.40	64.544		
15,000.00	7,870.00	8,264.00	8,063.27	118.56	36.99	92.13	1,635.04	-229.58	7,452.11	7,337.47	114.64	65.002		
15,100.00	7,870.00	8,264.00	8,063.27	119.17	36.99	92.13	1,635.04	-229.58	7,521.32	7,406.44	114.88	65.469		
15,200.00	7,870.00	8,282.96	8,082.22	119.81	37.04	92.34	1,634.76	-229.05	7,591.17	7,475.99	115.19	65.902		
15,300.00	7,870.00	8,283.67	8,082.93	120.48	37.04	92.34	1,634.75	-229.03	7,661.74	7,546.32	115.41	66.385		
15,400.00	7,870.00	8,284.38	8,083.64	121.19	37.04	92.35	1,634.74	-229.01	7,732.95	7,617.32	115.63	66.875		
15,500.00	7,870.00	8,285.08	8,084.35	121.93	37.05	92.36	1,634.73	-228.99	7,804.79	7,688.95	115.84	67.374		
15,600.00	7,870.00	8,285.79	8,085.05	122.71	37.05	92.37	1,634.72	-228.97	7,877.25	7,761.20	116.05	67.879		
15,700.00	7,870.00	8,286.49	8,085.75	123.52	37.05	92.37	1,634.71	-228.95	7,950.30	7,834.06	116.25	68.393		
15,800.00	7,870.00	8,287.19	8,086.45	124.36	37.05	92.38	1,634.70	-228.94	8,023.94	7,907.50	116.44	68.913		
15,900.00	7,870.00	8,287.89	8,087.15	125.23	37.05	92.39	1,634.69	-228.92	8,098.14	7,981.52	116.62	69.440		
16,000.00	7,870.00	8,288.59	8,087.85	126.14	37.05	92.40	1,634.68	-228.90	8,172.89	8,056.09	116.80	69.974		
16,100.00	7,870.00	8,289.29	8,088.54	127.07	37.06	92.40	1,634.67	-228.88	8,248.17	8,131.20	116.97	70.514		
16,200.00	7,870.00	8,289.98	8,089.24	128.04	37.06	92.41	1,634.66	-228.86	8,323.98	8,206.84	117.14	71.060		
16,300.00	7,870.00	8,290.67	8,089.93	129.04	37.06	92.42	1,634.65	-228.85	8,400.29	8,282.99	117.30	71.613		
16,400.00	7,870.00	8,291.36	8,090.62	130.06	37.06	92.42	1,634.64	-228.83	8,477.09	8,359.64	117.46	72.171		
16,500.00	7,870.00	8,292.05	8,091.30	131.11	37.06	92.43	1,634.63	-228.81	8,554.38	8,436.77	117.61	72.735		
16,600.00	7,870.00	8,292.73	8,091.99	132.19	37.07	92.44	1,634.62	-228.79	8,632.13	8,514.37	117.76	73.305		
16,700.00	7,870.00	8,293.42	8,092.67	133.29	37.07	92.45	1,634.61	-228.78	8,710.33	8,592.43	117.90	73.880		
16,800.00	7,870.00	8,294.10	8,093.35	134.42	37.07	92.45	1,634.60	-228.76	8,788.98	8,670.94	118.04	74.460		
16,900.00	7,870.00	8,294.78	8,094.03	135.57	37.07	92.46	1,634.59	-228.74	8,868.05	8,749.88	118.17	75.045		
17,000.00	7,870.00	8,295.45	8,094.71	136.75	37.07	92.47	1,634.58	-228.73	8,947.55	8,829.25	118.30	75.635		
17,100.00	7,870.00	8,296.13	8,095.39	137.94	37.07	92.48	1,634.57	-228.71	9,027.45	8,909.03	118.43	76.229		
17,200.00	7,870.00	8,296.80	8,096.06	139.16	37.08	92.48	1,634.56	-228.69	9,107.75	8,989.20	118.55	76.828		
17,300.00	7,870.00	8,297.48	8,096.73	140.39	37.08	92.49	1,634.55	-228.68	9,188.44	9,069.77	118.66	77.432		
17,400.00	7,870.00	8,298.15	8,097.40	141.65	37.08	92.50	1,634.55	-228.66	9,269.50	9,150.72	118.78	78.040		
17,500.00	7,870.00	8,298.82	8,098.07	142.92	37.08	92.50	1,634.54	-228.64	9,350.93	9,232.03	118.89	78.651		
17,600.00	7,870.00	8,299.48	8,098.74	144.21	37.08	92.51	1,634.53	-228.63	9,432.71	9,313.71	119.00	79.267		
17,700.00	7,870.00	8,300.15	8,099.40	145.52	37.08	92.52	1,634.52	-228.61	9,514.84	9,395.74	119.10	79.887		
17,800.00	7,870.00	8,300.81	8,100.06	146.84	37.09	92.52	1,634.51	-228.60	9,597.32	9,478.11	119.21	80.511		
17,900.00	7,870.00	8,301.47	8,100.72	148.18	37.09	92.53	1,634.50	-228.58	9,680.12	9,560.82	119.30	81.138		
18,000.00	7,870.00	8,302.13	8,101.38	149.54	37.09	92.54	1,634.49	-228.56	9,763.25	9,643.84	119.40	81.768		
18,100.00	7,870.00	8,302.79	8,102.04	150.90	37.09	92.55	1,634.48	-228.55	9,846.68	9,727.19	119.50	82.402		
18,200.00	7,870.00	8,303.44	8,102.70	152.28	37.09	92.55	1,634.47	-228.53	9,930.43	9,810.84	119.59	83.040		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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	-33.57	218.57	-145.04	262.44				
100.00	100.00	91.35	91.35	0.13	0.14	-33.60	218.57	-145.24	262.43	262.15	0.28	942.415	
200.00	200.00	191.94	191.94	0.49	0.47	-33.72	218.42	-145.79	262.61	261.64	0.97	272.033	
300.00	300.00	294.85	294.84	0.85	0.84	-33.94	217.47	-146.37	262.16	260.47	1.69	155.079	
400.00	399.98	404.16	404.07	1.21	1.23	-103.08	213.43	-146.56	259.57	257.13	2.44	106.507	
500.00	499.84	510.92	510.51	1.56	1.63	-105.53	205.23	-147.00	254.88	251.70	3.18	80.157	
600.00	599.45	618.34	617.17	1.93	2.04	-109.63	192.59	-147.73	248.76	244.81	3.94	63.060	
700.00	698.70	726.83	724.25	2.32	2.50	-115.29	175.30	-146.92	241.22	236.47	4.74	50.871	
800.00	797.47	829.61	824.72	2.72	2.97	-122.56	153.69	-145.58	233.95	228.38	5.57	42.009	
891.31	887.12	917.11	909.61	3.12	3.41	-130.08	132.51	-144.52	231.06	224.69	6.37	36.276 CC	
900.00	895.62	925.27	917.50	3.16	3.45	-130.84	130.43	-144.46	231.09	224.64	6.45	35.849 ES	
1,000.00	993.06	1,017.41	1,006.34	3.63	3.93	-139.69	106.02	-144.10	236.11	228.75	7.36	32.088	
1,100.00	1,089.64	1,107.82	1,093.28	4.14	4.43	-148.36	81.20	-144.03	250.50	242.23	8.27	30.273	
1,200.00	1,185.27	1,196.00	1,177.69	4.70	4.93	-156.39	55.70	-144.16	274.32	265.16	9.16	29.948 SF	
1,300.00	1,279.82	1,284.39	1,262.14	5.31	5.45	-163.53	29.60	-144.28	306.76	296.74	10.02	30.628	
1,400.00	1,373.17	1,372.72	1,346.42	5.97	5.98	-169.67	3.14	-143.38	345.64	334.79	10.86	31.841	
1,500.00	1,465.21	1,456.61	1,426.12	6.69	6.49	-174.73	-22.96	-142.00	390.54	378.88	11.66	33.499	
1,600.00	1,555.84	1,539.13	1,504.58	7.47	7.00	-178.88	-48.51	-140.57	440.65	428.19	12.46	35.369	
1,700.00	1,644.94	1,617.95	1,579.41	8.31	7.49	-177.73	-73.21	-139.14	495.34	482.10	13.24	37.414	
1,800.00	1,732.39	1,702.11	1,659.34	9.23	8.02	-174.67	-99.50	-137.30	553.66	539.58	14.09	39.300	
1,900.00	1,818.11	1,783.63	1,737.02	10.21	8.52	-172.23	-124.14	-135.08	614.72	599.79	14.93	41.171	
2,000.00	1,901.97	1,862.04	1,811.82	11.26	9.01	-170.22	-147.50	-132.59	678.45	662.68	15.77	43.035	
2,100.00	1,983.88	1,943.13	1,889.24	12.38	9.50	-168.41	-171.45	-129.64	744.69	728.04	16.64	44.743	
2,200.00	2,063.74	2,024.76	1,967.59	13.57	9.98	-166.93	-194.08	-126.30	812.62	795.08	17.54	46.327	
2,300.00	2,141.45	2,097.75	2,037.93	14.84	10.41	-165.79	-213.39	-123.36	882.63	864.27	18.37	48.060	
2,327.78	2,162.65	2,115.34	2,054.89	15.21	10.51	-165.51	-217.98	-122.70	902.54	883.96	18.57	48.593	
2,400.00	2,217.51	2,160.51	2,098.46	16.17	10.77	-165.21	-229.80	-121.18	954.68	935.59	19.10	49.994	
2,500.00	2,293.49	2,226.98	2,162.62	17.51	11.15	-164.83	-247.08	-119.37	1,027.21	1,007.36	19.86	51.726	
2,600.00	2,369.47	2,290.97	2,224.52	18.86	11.51	-164.57	-263.21	-118.05	1,099.84	1,079.24	20.60	53.392	
2,700.00	2,445.45	2,344.75	2,276.55	20.22	11.81	-164.40	-276.83	-117.53	1,173.15	1,151.92	21.24	55.246	
2,800.00	2,521.42	2,397.89	2,327.91	21.59	12.11	-164.25	-290.46	-117.67	1,247.28	1,225.42	21.86	57.054	
2,900.00	2,597.40	2,450.32	2,378.59	22.97	12.41	-164.15	-303.85	-118.55	1,322.15	1,299.68	22.48	58.821	
3,000.00	2,673.38	2,511.04	2,437.34	24.34	12.74	-164.09	-319.11	-120.29	1,397.54	1,374.37	23.17	60.304	
3,100.00	2,749.36	2,583.98	2,508.01	25.73	13.14	-164.05	-336.97	-122.79	1,473.01	1,449.00	24.00	61.363	
3,200.00	2,825.33	2,674.84	2,595.92	27.11	13.65	-163.92	-359.93	-123.90	1,547.52	1,522.47	25.04	61.792	
3,300.00	2,901.31	2,754.15	2,672.47	28.50	14.11	-163.75	-380.66	-123.39	1,621.34	1,595.36	25.98	62.409	
3,400.00	2,977.29	2,806.13	2,722.47	29.90	14.41	-163.61	-394.85	-122.80	1,695.32	1,668.68	26.63	63.651	
3,500.00	3,053.27	2,895.73	2,808.41	31.29	14.95	-163.34	-420.16	-121.21	1,769.43	1,741.70	27.72	63.822	
3,600.00	3,129.24	2,973.32	2,882.89	32.69	15.41	-163.11	-441.71	-118.60	1,842.36	1,813.67	28.69	64.221	
3,700.00	3,205.22	3,033.22	2,940.36	34.08	15.77	-162.95	-458.49	-116.66	1,915.50	1,886.04	29.45	65.032	
3,800.00	3,281.20	3,089.06	2,993.82	35.48	16.11	-162.79	-474.56	-114.90	1,989.01	1,958.83	30.18	65.901	
3,900.00	3,357.18	3,139.57	3,042.03	36.88	16.42	-162.64	-489.53	-113.41	2,062.98	2,032.13	30.85	66.875	
4,000.00	3,433.15	3,185.39	3,085.75	38.29	16.71	-162.52	-503.20	-112.53	2,137.59	2,106.13	31.46	67.952	
4,100.00	3,509.13	3,252.95	3,150.28	39.69	17.12	-162.37	-523.21	-111.91	2,212.68	2,180.36	32.32	68.456	
4,200.00	3,585.11	3,347.94	3,241.35	41.09	17.70	-162.21	-550.19	-110.86	2,287.20	2,253.69	33.51	68.260	
4,300.00	3,661.08	3,432.51	3,322.53	42.50	18.20	-162.08	-573.82	-109.01	2,360.90	2,326.33	34.57	68.293	
4,400.00	3,737.06	3,490.00	3,377.62	43.90	18.55	-161.98	-590.17	-107.35	2,434.48	2,399.16	35.32	68.922	
4,500.00	3,813.04	3,537.80	3,423.32	45.31	18.85	-161.89	-604.15	-106.05	2,508.50	2,472.53	35.97	69.747	
4,600.00	3,889.02	3,584.00	3,467.35	46.71	19.14	-161.80	-618.11	-105.15	2,583.25	2,546.66	36.59	70.601	
4,700.00	3,964.99	3,616.97	3,498.73	48.12	19.34	-161.73	-628.22	-104.82	2,658.65	2,621.60	37.05	71.766	
4,800.00	4,040.97	3,655.53	3,535.43	49.53	19.59	-161.67	-640.02	-104.86	2,734.71	2,697.15	37.57	72.795	
4,900.00	4,116.95	3,703.93	3,581.52	50.94	19.89	-161.61	-654.78	-105.51	2,811.35	2,773.14	38.21	73.586	

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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	4,192.93	3,766.02	3,640.72	52.35	20.28	161.55	-673.47	-106.65	2,888.12	2,849.11	39.01	74.038		
5,100.00	4,268.90	3,846.52	3,717.58	53.76	20.77	161.49	-697.34	-108.18	2,964.76	2,924.72	40.03	74.056		
5,200.00	4,344.88	3,934.85	3,802.02	55.16	21.32	161.42	-723.25	-109.33	3,040.96	2,999.80	41.16	73.888		
5,300.00	4,420.86	4,048.85	3,911.17	56.57	22.01	161.33	-756.15	-109.64	3,116.44	3,073.85	42.59	73.175		
5,400.00	4,496.84	4,173.39	4,031.09	57.98	22.74	161.27	-789.71	-108.59	3,190.36	3,146.25	44.12	72.318		
5,500.00	4,572.81	4,224.19	4,080.16	59.39	23.03	161.27	-802.89	-108.31	3,264.22	3,219.44	44.77	72.909		
5,600.00	4,648.79	4,264.08	4,118.67	60.81	23.26	161.26	-813.26	-108.36	3,338.48	3,293.18	45.30	73.701		
5,700.00	4,724.77	4,297.61	4,150.99	62.22	23.45	161.26	-822.16	-108.68	3,413.38	3,367.63	45.75	74.614		
5,800.00	4,800.74	4,335.00	4,186.98	63.63	23.67	161.26	-832.31	-109.33	3,488.92	3,442.68	46.24	75.454		
5,900.00	4,876.72	4,394.30	4,244.01	65.04	24.02	161.26	-848.51	-110.65	3,564.80	3,517.82	46.99	75.866		
6,000.00	4,952.70	4,449.85	4,297.47	66.45	24.35	161.26	-863.55	-111.96	3,640.69	3,593.00	47.69	76.336		
6,100.00	5,028.68	4,491.19	4,337.18	67.86	24.59	161.26	-874.96	-113.06	3,716.93	3,668.70	48.23	77.066		
6,200.00	5,104.65	4,540.60	4,384.56	69.27	24.88	161.25	-888.94	-114.51	3,793.56	3,744.69	48.87	77.630		
6,300.00	5,180.63	4,600.00	4,436.21	70.69	25.16	161.20	-902.44	-115.77	3,869.82	3,810.45	49.37	78.184		
6,400.00	5,256.61	4,640.00	4,472.74	72.10	25.49	161.20	-916.43	-116.96	3,943.33	3,882.37	49.86	78.738		
6,500.00	5,332.59	4,680.00	4,509.27	73.51	25.81	161.26	-930.42	-118.15	4,014.32	3,958.87	50.35	79.292		
6,600.00	5,408.56	4,720.00	4,546.80	74.92	26.13	161.33	-944.41	-119.34	4,084.93	4,028.68	50.84	79.846		
6,700.00	5,484.54	4,760.00	4,584.33	76.33	26.45	162.73	-958.40	-120.53	4,152.94	4,092.59	51.33	80.400		
6,800.00	5,560.52	4,800.00	4,621.86	77.74	26.77	162.96	-972.39	-121.72	4,215.35	4,154.39	51.82	80.954		
6,900.00	5,636.50	4,840.00	4,659.39	79.15	27.09	163.19	-986.38	-122.91	4,277.87	4,216.30	52.31	81.508		
7,000.00	5,712.47	4,880.00	4,696.92	80.56	27.41	163.40	-1,000.37	-124.10	4,340.58	4,278.44	52.80	82.062		
7,100.00	5,788.45	4,920.00	4,734.45	81.97	27.73	163.64	-1,014.36	-125.29	4,403.47	4,340.71	53.29	82.616		
7,200.00	5,864.43	4,960.00	4,771.98	83.38	28.05	163.87	-1,028.35	-126.48	4,466.40	4,403.03	53.78	83.170		
7,300.00	5,940.40	5,000.00	4,809.51	84.79	28.37	164.09	-1,042.34	-127.67	4,529.42	4,465.43	54.27	83.724		
7,400.00	6,016.38	5,040.00	4,847.04	86.20	28.69	164.29	-1,056.33	-128.86	4,592.55	4,527.98	54.76	84.278		
7,500.00	6,092.36	5,080.00	4,884.57	87.61	29.01	164.48	-1,070.32	-129.99	4,655.87	4,590.75	55.25	84.832		
7,600.00	6,168.34	5,120.00	4,922.10	89.02	29.33	164.65	-1,084.31	-131.18	4,719.45	4,653.79	55.74	85.386		
7,700.00	6,244.31	5,160.00	4,959.63	90.43	29.65	164.85	-1,098.30	-132.37	4,783.29	4,717.04	56.23	85.940		
7,800.00	6,320.29	5,200.00	5,000.00	91.84	29.97	165.12	-1,112.29	-133.56	4,847.01	4,780.00	56.72	86.494		
7,900.00	6,396.27	5,240.00	5,040.00	93.25	30.29	165.34	-1,126.28	-134.75	4,910.36	4,842.70	57.21	87.048		
8,000.00	6,472.25	5,280.00	5,080.00	94.66	30.61	165.50	-1,140.27	-135.94	4,973.93	4,905.72	57.70	87.602		
8,100.00	6,548.22	5,320.00	5,120.00	96.07	30.93	165.74	-1,154.26	-137.13	5,037.48	4,968.55	58.19	88.156		
8,200.00	6,624.20	5,360.00	5,160.00	97.48	31.25	166.00	-1,168.25	-138.32	5,100.71	5,031.00	58.68	88.710		
8,300.00	6,700.18	5,400.00	5,200.00	98.89	31.57	166.20	-1,182.24	-139.51	5,163.74	5,093.33	59.17	89.264		
8,400.00	6,776.16	5,440.00	5,240.00	100.30	31.89	166.43	-1,196.23	-140.70	5,226.34	5,155.11	59.66	89.818		
8,500.00	6,852.13	5,480.00	5,280.00	101.71	32.21	166.57	-1,210.22	-141.89	5,288.93	5,217.10	60.15	90.372		
8,600.00	6,928.11	5,520.00	5,320.00	103.12	32.53	166.68	-1,224.21	-143.08	5,351.78	5,279.42	60.64	90.926		
8,700.00	7,004.09	5,560.00	5,360.00	104.53	32.85	166.79	-1,238.20	-144.27	5,414.97	5,342.09	61.13	91.480		
8,800.00	7,080.06	5,600.00	5,400.00	105.94	33.17	166.90	-1,252.19	-145.46	5,478.46	5,405.06	61.62	92.034		
8,900.00	7,156.04	5,640.00	5,440.00	107.35	33.49	167.00	-1,266.18	-146.65	5,542.28	5,468.38	62.11	92.588		
9,000.00	7,232.02	5,680.00	5,480.00	108.76	33.81	167.09	-1,280.17	-147.84	5,606.50	5,532.13	62.60	93.142		
9,104.68	7,311.55	5,720.00	5,520.00	110.17	34.13	167.36	-1,294.16	-149.03	5,673.53	5,598.00	63.09	93.696		
9,150.00	7,346.29	5,760.00	5,560.00	111.58	34.45	159.18	-1,308.15	-150.22	5,701.56	5,625.62	63.58	94.250		
9,200.00	7,385.15	5,800.00	5,600.00	112.99	34.77	150.22	-1,322.14	-151.41	5,730.66	5,654.41	64.07	94.804		
9,250.00	7,424.29	5,840.00	5,640.00	114.40	35.09	141.48	-1,336.13	-152.60	5,757.74	5,681.19	64.56	95.358		
9,300.00	7,463.40	5,880.00	5,680.00	115.81	35.41	133.13	-1,350.12	-153.79	5,782.64	5,705.77	65.05	95.912		
9,350.00	7,502.19	5,920.00	5,720.00	117.22	35.73	125.30	-1,364.11	-154.98	5,805.20	5,728.06	65.54	96.466		
9,400.00	7,540.36	5,960.00	5,760.00	118.63	36.05	118.14	-1,378.10	-156.17	5,825.30	5,747.91	66.03	97.020		
9,450.00	7,577.62	6,000.00	5,800.00	120.04	36.37	111.73	-1,392.09	-157.36	5,842.84	5,765.20	66.52	97.574		
9,500.00	7,613.70	6,040.00	5,840.00	121.45	36.69	106.08	-1,406.08	-158.55	5,857.72	5,779.86	67.01	98.128		
9,550.00	7,648.30	6,080.00	5,880.00	122.86	37.01	101.07	-1,420.07	-159.74	5,869.93	5,792.02	67.50	98.682		
9,600.00	7,681.18	6,120.00	5,920.00	124.27	37.33	97.05	-1,434.06	-160.93	5,879.27	5,801.08	68.00	99.236		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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		
9,650.00	7,712.08	7,814.30	7,635.97	115.88	35.15	93.60	-1,080.11	-100.37	5,885.85	5,807.53	78.32	75.151		
9,700.00	7,740.76	7,827.92	7,649.58	116.08	35.19	90.79	-1,080.46	-100.38	5,889.60	5,811.17	78.43	75.094		
9,750.00	7,767.01	7,859.00	7,680.65	116.23	35.29	88.73	-1,081.31	-100.52	5,890.58	5,811.92	78.65	74.893		
9,800.00	7,790.63	7,859.00	7,680.65	116.33	35.29	86.97	-1,081.31	-100.52	5,888.60	5,809.96	78.64	74.882		
9,850.00	7,811.44	7,859.00	7,680.65	116.38	35.29	85.73	-1,081.31	-100.52	5,883.87	5,805.26	78.61	74.848		
9,900.00	7,829.28	7,859.00	7,680.65	116.38	35.29	84.98	-1,081.31	-100.52	5,876.41	5,797.83	78.58	74.787		
9,950.00	7,844.01	7,859.00	7,680.65	116.35	35.29	84.70	-1,081.31	-100.52	5,866.27	5,787.73	78.53	74.697		
10,000.00	7,855.52	7,859.00	7,680.65	116.28	35.29	84.88	-1,081.31	-100.52	5,853.50	5,775.01	78.49	74.576		
10,050.00	7,863.72	7,859.00	7,680.65	116.18	35.29	85.51	-1,081.31	-100.52	5,838.21	5,759.76	78.45	74.420		
10,100.00	7,868.56	7,885.54	7,707.17	116.06	35.37	86.89	-1,082.10	-100.82	5,820.31	5,741.68	78.62	74.029		
10,145.94	7,870.00	7,886.62	7,708.25	115.92	35.37	88.33	-1,082.13	-100.83	5,801.94	5,723.33	78.61	73.808		
10,200.00	7,870.00	7,887.25	7,708.88	115.76	35.38	88.33	-1,082.15	-100.84	5,779.42	5,700.82	78.60	73.531		
10,300.00	7,870.00	7,888.43	7,710.06	115.46	35.38	88.35	-1,082.18	-100.86	5,738.87	5,660.27	78.61	73.007		
10,400.00	7,870.00	7,889.62	7,711.25	115.18	35.38	88.36	-1,082.22	-100.88	5,699.79	5,621.14	78.65	72.468		
10,500.00	7,870.00	7,890.82	7,712.45	114.91	35.39	88.37	-1,082.26	-100.90	5,662.21	5,583.47	78.74	71.912		
10,600.00	7,870.00	7,892.02	7,713.65	114.65	35.39	88.39	-1,082.30	-100.92	5,626.15	5,547.29	78.86	71.340		
10,700.00	7,870.00	7,893.23	7,714.86	114.41	35.39	88.40	-1,082.33	-100.94	5,591.65	5,512.61	79.03	70.753		
10,800.00	7,870.00	7,894.44	7,716.07	114.17	35.40	88.41	-1,082.37	-100.96	5,558.73	5,479.49	79.24	70.149		
10,900.00	7,870.00	7,895.67	7,717.29	113.95	35.40	88.42	-1,082.41	-100.98	5,527.42	5,447.93	79.50	69.532		
11,000.00	7,870.00	7,896.90	7,718.52	113.75	35.41	88.44	-1,082.45	-101.00	5,497.76	5,417.96	79.79	68.900		
11,100.00	7,870.00	7,898.14	7,719.76	113.55	35.41	88.45	-1,082.49	-101.02	5,469.76	5,389.62	80.13	68.257		
11,200.00	7,870.00	7,899.38	7,721.01	113.37	35.41	88.47	-1,082.53	-101.05	5,443.45	5,362.93	80.52	67.604		
11,300.00	7,870.00	7,900.64	7,722.26	113.20	35.42	88.48	-1,082.57	-101.07	5,418.86	5,337.91	80.95	66.942		
11,400.00	7,870.00	7,901.90	7,723.52	113.04	35.42	88.49	-1,082.61	-101.10	5,396.01	5,314.59	81.42	66.274		
11,500.00	7,870.00	7,903.17	7,724.79	112.89	35.42	88.51	-1,082.65	-101.12	5,374.93	5,292.99	81.93	65.602		
11,600.00	7,870.00	7,904.44	7,726.06	112.76	35.43	88.52	-1,082.69	-101.14	5,355.63	5,273.14	82.49	64.928		
11,700.00	7,870.00	7,905.73	7,727.35	112.64	35.43	88.53	-1,082.73	-101.17	5,338.13	5,255.05	83.08	64.255		
11,800.00	7,870.00	7,907.02	7,728.64	112.53	35.44	88.55	-1,082.77	-101.20	5,322.45	5,238.74	83.71	63.586		
11,900.00	7,870.00	7,908.32	7,729.94	112.44	35.44	88.56	-1,082.82	-101.22	5,308.61	5,224.24	84.37	62.922		
12,000.00	7,870.00	7,909.63	7,731.24	112.36	35.44	88.58	-1,082.86	-101.25	5,296.62	5,211.55	85.06	62.266		
12,100.00	7,870.00	7,910.94	7,732.56	112.29	35.45	88.59	-1,082.90	-101.28	5,286.49	5,200.70	85.79	61.622		
12,200.00	7,870.00	7,912.27	7,733.88	112.24	35.45	88.61	-1,082.94	-101.31	5,278.24	5,191.70	86.54	60.990		
12,300.00	7,870.00	7,913.60	7,735.21	112.20	35.46	88.62	-1,082.99	-101.34	5,271.87	5,184.55	87.32	60.374		
12,400.00	7,870.00	7,914.94	7,736.55	112.17	35.46	88.63	-1,083.03	-101.37	5,267.40	5,179.28	88.12	59.774		
12,500.00	7,870.00	7,916.29	7,737.90	112.16	35.46	88.65	-1,083.08	-101.40	5,264.81	5,175.87	88.94	59.194		
12,600.00	7,870.00	8,252.54	8,073.69	112.17	36.57	92.30	-1,098.51	-98.81	5,264.27	5,171.40	92.87	56.686		
12,601.43	7,870.00	8,252.63	8,073.78	112.17	36.57	92.31	-1,098.52	-98.81	5,264.27	5,171.39	92.88	56.678		
12,700.00	7,870.00	8,258.74	8,079.87	112.19	36.59	92.37	-1,098.90	-98.56	5,265.18	5,171.44	93.75	56.165		
12,800.00	7,870.00	8,265.21	8,086.32	112.23	36.61	92.44	-1,099.31	-98.30	5,267.99	5,173.36	94.64	55.666		
12,900.00	7,870.00	8,271.98	8,093.08	112.28	36.63	92.52	-1,099.75	-98.03	5,272.69	5,177.16	95.54	55.191		
13,000.00	7,870.00	8,279.07	8,100.15	112.36	36.66	92.59	-1,100.22	-97.75	5,279.27	5,182.83	96.44	54.741		
13,100.00	7,870.00	8,286.51	8,107.56	112.45	36.68	92.67	-1,100.72	-97.45	5,287.72	5,190.37	97.35	54.315		
13,200.00	7,870.00	8,294.31	8,115.33	112.56	36.71	92.76	-1,101.27	-97.14	5,298.04	5,199.77	98.27	53.915		
13,300.00	7,870.00	8,302.50	8,123.50	112.68	36.74	92.85	-1,101.85	-96.82	5,310.21	5,211.03	99.18	53.540		
13,400.00	7,870.00	8,311.13	8,132.09	112.83	36.77	92.94	-1,102.48	-96.48	5,324.22	5,224.13	100.09	53.192		
13,500.00	7,870.00	8,320.21	8,141.14	113.00	36.80	93.04	-1,103.16	-96.11	5,340.06	5,239.05	101.01	52.869		
13,600.00	7,870.00	8,329.79	8,150.68	113.19	36.84	93.14	-1,103.90	-95.73	5,357.70	5,255.78	101.91	52.572		
13,700.00	7,870.00	8,339.91	8,160.76	113.40	36.87	93.25	-1,104.71	-95.33	5,377.12	5,274.31	102.81	52.301		
13,800.00	7,870.00	13,800.00	8,153.82	113.63	56.42	93.18	-1,104.09	-95.61	5,398.35	5,276.22	122.13	44.201		
13,900.00	7,870.00	8,342.37	8,163.22	113.89	36.88	93.28	-1,104.86	-95.25	5,421.31	5,316.88	104.43	51.913		
14,000.00	7,870.00	8,346.90	8,167.74	114.18	36.90	93.33	-1,105.21	-95.07	5,446.01	5,340.76	105.25	51.744		
14,100.00	7,870.00	8,351.37	8,172.19	114.48	36.91	93.38	-1,105.54	-94.90	5,472.41	5,366.36	106.05	51.602		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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		
14,200.00	7,870.00	8,355.78	8,176.58	114.82	36.93	93.43	-1,105.87	-94.74	5,500.51	5,393.67	106.84	51.486		
14,300.00	7,870.00	8,360.12	8,180.91	115.18	36.95	93.47	-1,106.19	-94.58	5,530.26	5,422.66	107.60	51.394		
14,400.00	7,870.00	8,364.40	8,185.17	115.57	36.96	93.52	-1,106.50	-94.43	5,561.65	5,453.29	108.36	51.328		
14,500.00	7,870.00	8,368.62	8,189.38	115.99	36.98	93.56	-1,106.81	-94.27	5,594.64	5,485.56	109.09	51.285		
14,600.00	7,870.00	8,372.79	8,193.53	116.44	36.99	93.61	-1,107.11	-94.13	5,629.22	5,519.41	109.80	51.267		
14,700.00	7,870.00	8,376.89	8,197.63	116.92	37.01	93.65	-1,107.41	-93.98	5,665.34	5,554.84	110.50	51.271		
14,800.00	7,870.00	8,380.94	8,201.67	117.44	37.02	93.70	-1,107.70	-93.84	5,702.98	5,591.80	111.17	51.298		
14,900.00	7,870.00	8,384.94	8,205.65	117.98	37.03	93.74	-1,107.98	-93.70	5,742.11	5,630.28	111.83	51.348		
15,000.00	7,870.00	8,388.88	8,209.58	118.56	37.05	93.78	-1,108.26	-93.57	5,782.70	5,670.23	112.46	51.418		
15,100.00	7,870.00	8,392.77	8,213.46	119.17	37.06	93.83	-1,108.53	-93.44	5,824.72	5,711.64	113.08	51.510		
15,200.00	7,870.00	8,396.61	8,217.28	119.81	37.08	93.87	-1,108.80	-93.31	5,868.14	5,754.46	113.68	51.621		
15,300.00	7,870.00	8,400.40	8,221.06	120.48	37.09	93.91	-1,109.06	-93.18	5,912.92	5,798.67	114.25	51.753		
15,400.00	7,870.00	8,420.00	8,240.61	121.19	37.16	94.12	-1,110.38	-92.56	5,959.09	5,844.17	114.92	51.854		
15,500.00	7,870.00	8,420.00	8,240.61	121.93	37.16	94.12	-1,110.38	-92.56	6,006.50	5,891.07	115.43	52.035		
15,600.00	7,870.00	8,420.00	8,240.61	122.71	37.16	94.12	-1,110.38	-92.56	6,055.20	5,939.27	115.93	52.234		
15,700.00	7,870.00	8,420.00	8,240.61	123.52	37.16	94.12	-1,110.38	-92.56	6,105.14	5,988.74	116.40	52.449		
15,800.00	7,870.00	8,420.00	8,240.61	124.36	37.16	94.12	-1,110.38	-92.56	6,156.30	6,039.45	116.86	52.682		
15,900.00	7,870.00	8,420.00	8,240.61	125.23	37.16	94.12	-1,110.38	-92.56	6,208.66	6,091.36	117.30	52.930		
16,000.00	7,870.00	8,420.00	8,240.61	126.14	37.16	94.12	-1,110.38	-92.56	6,262.17	6,144.45	117.72	53.195		
16,100.00	7,870.00	8,420.00	8,240.61	127.07	37.16	94.12	-1,110.38	-92.56	6,316.81	6,198.68	118.13	53.474		
16,200.00	7,870.00	8,420.00	8,240.61	128.04	37.16	94.12	-1,110.38	-92.56	6,372.56	6,254.04	118.52	53.768		
16,300.00	7,870.00	8,420.00	8,240.61	129.04	37.16	94.12	-1,110.38	-92.56	6,429.37	6,310.48	118.89	54.076		
16,400.00	7,870.00	8,420.00	8,240.61	130.06	37.16	94.12	-1,110.38	-92.56	6,487.23	6,367.98	119.25	54.398		
16,500.00	7,870.00	8,420.00	8,240.61	131.11	37.16	94.12	-1,110.38	-92.56	6,546.11	6,426.51	119.60	54.733		
16,600.00	7,870.00	8,443.42	8,263.97	132.19	37.24	94.38	-1,111.90	-91.87	6,605.88	6,485.81	120.08	55.014		
16,700.00	7,870.00	8,446.34	8,266.89	133.29	37.25	94.41	-1,112.08	-91.78	6,666.68	6,546.28	120.41	55.367		
16,800.00	7,870.00	8,449.23	8,269.76	134.42	37.26	94.44	-1,112.27	-91.71	6,728.42	6,607.69	120.73	55.731		
16,900.00	7,870.00	8,452.08	8,272.61	135.57	37.27	94.47	-1,112.44	-91.63	6,791.07	6,670.03	121.04	56.108		
17,000.00	7,870.00	8,454.90	8,275.42	136.75	37.28	94.50	-1,112.62	-91.55	6,854.60	6,733.27	121.33	56.496		
17,100.00	7,870.00	8,457.68	8,278.20	137.94	37.29	94.53	-1,112.79	-91.48	6,918.99	6,797.38	121.61	56.895		
17,200.00	7,870.00	8,460.43	8,280.94	139.16	37.30	94.56	-1,112.96	-91.40	6,984.22	6,862.34	121.88	57.305		
17,300.00	7,870.00	8,463.15	8,283.66	140.39	37.31	94.59	-1,113.12	-91.33	7,050.25	6,928.12	122.14	57.725		
17,400.00	7,870.00	8,465.84	8,286.34	141.65	37.32	94.62	-1,113.29	-91.27	7,117.08	6,994.70	122.38	58.155		
17,500.00	7,870.00	8,468.50	8,288.99	142.92	37.33	94.65	-1,113.45	-91.20	7,184.68	7,062.06	122.62	58.595		
17,600.00	7,870.00	8,471.12	8,291.61	144.21	37.34	94.68	-1,113.60	-91.13	7,253.02	7,130.18	122.84	59.044		
17,700.00	7,870.00	8,473.72	8,294.20	145.52	37.35	94.70	-1,113.76	-91.07	7,322.09	7,199.03	123.06	59.502		
17,800.00	7,870.00	8,476.29	8,296.76	146.84	37.36	94.73	-1,113.91	-91.01	7,391.86	7,268.60	123.26	59.969		
17,900.00	7,870.00	8,478.82	8,299.29	148.18	37.36	94.76	-1,114.06	-90.94	7,462.32	7,338.87	123.46	60.444		
18,000.00	7,870.00	8,481.33	8,301.80	149.54	37.37	94.79	-1,114.21	-90.88	7,533.45	7,409.81	123.65	60.928		
18,100.00	7,870.00	8,483.82	8,304.28	150.90	37.38	94.81	-1,114.35	-90.83	7,605.23	7,481.40	123.83	61.419		
18,200.00	7,870.00	8,486.27	8,306.73	152.28	37.39	94.84	-1,114.49	-90.77	7,677.63	7,553.63	124.00	61.918		
18,300.00	7,870.00	8,488.70	8,309.15	153.67	37.40	94.87	-1,114.63	-90.71	7,750.65	7,626.48	124.16	62.424		
18,400.00	7,870.00	8,514.00	8,334.41	155.07	37.49	95.14	-1,116.04	-90.17	7,824.34	7,699.90	124.44	62.876		
18,500.00	7,870.00	8,514.00	8,334.41	156.49	37.49	95.14	-1,116.04	-90.17	7,898.51	7,773.93	124.58	63.403		
18,600.00	7,870.00	8,514.00	8,334.41	157.91	37.49	95.14	-1,116.04	-90.17	7,973.25	7,848.54	124.71	63.937		
18,700.00	7,870.00	8,514.00	8,334.41	159.35	37.49	95.14	-1,116.04	-90.17	8,048.53	7,923.70	124.83	64.476		
18,800.00	7,870.00	8,514.00	8,334.41	160.79	37.49	95.14	-1,116.04	-90.17	8,124.35	7,999.41	124.95	65.023		
18,900.00	7,870.00	8,514.00	8,334.41	162.25	37.49	95.14	-1,116.04	-90.17	8,200.69	8,075.63	125.06	65.575		
19,000.00	7,870.00	8,514.00	8,334.41	163.71	37.49	95.14	-1,116.04	-90.17	8,277.53	8,152.37	125.17	66.133		
19,100.00	7,870.00	8,514.00	8,334.41	165.18	37.49	95.14	-1,116.04	-90.17	8,354.86	8,229.60	125.27	66.696		
19,200.00	7,870.00	8,514.00	8,334.41	166.66	37.49	95.14	-1,116.04	-90.17	8,432.67	8,307.31	125.36	67.265		
19,300.00	7,870.00	8,514.00	8,334.41	168.15	37.49	95.14	-1,116.04	-90.17	8,510.94	8,385.49	125.46	67.840		

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 6-4-22 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 107-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,870.00	8,514.00	8,334.41	169.65	37.49	95.14	-1,116.04	-90.17	8,589.67	8,464.12	125.54	68.419	
19,500.00	7,870.00	8,514.00	8,334.41	171.15	37.49	95.14	-1,116.04	-90.17	8,668.83	8,543.20	125.63	69.004	
19,600.00	7,870.00	8,514.00	8,334.41	172.66	37.49	95.14	-1,116.04	-90.17	8,748.42	8,622.71	125.71	69.593	
19,700.00	7,870.00	8,514.00	8,334.41	174.18	37.49	95.14	-1,116.04	-90.17	8,828.42	8,702.64	125.78	70.187	
19,800.00	7,870.00	8,514.00	8,334.41	175.70	37.49	95.14	-1,116.04	-90.17	8,908.83	8,782.97	125.86	70.785	
19,889.26	7,870.00	8,528.95	8,349.33	177.06	37.54	95.30	-1,116.84	-89.88	8,980.91	8,854.91	125.99	71.281	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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	-29.85	218.57	-125.44	252.14				
100.00	100.00	89.98	89.98	0.13	0.15	-29.79	219.03	-125.37	252.38	252.10	0.28	894.556	
200.00	200.00	192.81	192.80	0.49	0.42	-29.52	220.26	-124.72	253.12	252.21	0.91	277.837	
300.00	300.00	301.40	301.31	0.85	0.81	-28.77	220.01	-120.78	251.16	249.49	1.66	151.195	
400.00	399.98	408.97	408.50	1.21	1.21	-95.87	218.23	-112.12	246.08	243.67	2.41	102.067	
500.00	499.84	513.22	511.86	1.56	1.62	-94.68	216.32	-98.74	239.06	235.89	3.17	75.450	
600.00	599.45	621.01	618.21	1.93	2.09	-93.82	212.34	-81.66	229.38	225.41	3.97	57.741	
700.00	698.70	722.14	717.32	2.32	2.56	-93.10	207.91	-62.06	217.85	213.06	4.79	45.469	
800.00	797.47	815.65	808.28	2.72	3.03	-92.13	205.91	-40.52	207.10	201.46	5.64	36.698	
900.00	895.62	909.00	898.58	3.16	3.52	-90.80	209.52	-17.17	201.15	194.58	6.57	30.635	
1,000.00	993.06	1,013.58	999.64	3.63	4.08	-90.18	212.98	9.50	194.71	187.11	7.59	25.643	
1,100.00	1,089.64	1,114.41	1,096.92	4.14	4.65	-90.60	214.84	35.92	186.67	178.02	8.65	21.591	
1,200.00	1,185.27	1,213.88	1,192.68	4.70	5.22	-91.92	216.81	62.77	178.53	168.79	9.74	18.334	
1,300.00	1,279.82	1,308.42	1,284.01	5.31	5.75	-94.60	219.61	87.03	172.17	161.35	10.82	15.910	
1,400.00	1,373.17	1,403.50	1,375.86	5.97	6.28	-98.23	225.11	110.94	169.39	157.47	11.92	14.208	
1,474.17	1,441.57	1,477.32	1,447.01	6.50	6.69	-101.51	230.49	129.88	168.98	156.21	12.76	13.238	CC
1,500.00	1,465.21	1,502.96	1,471.74	6.69	6.84	-102.82	232.30	136.41	169.04	155.98	13.05	12.951	ES
1,600.00	1,555.84	1,601.75	1,566.80	7.47	7.41	-108.24	239.54	162.31	170.54	156.40	14.15	12.055	
1,700.00	1,644.94	1,697.55	1,658.76	8.31	7.97	-113.88	247.95	187.81	175.70	160.53	15.17	11.580	
1,800.00	1,732.39	1,793.67	1,751.22	9.23	8.52	-120.06	256.85	212.52	185.37	169.28	16.09	11.522	SF
1,900.00	1,818.11	1,889.98	1,844.06	10.21	9.07	-126.48	265.51	236.63	199.70	182.82	16.87	11.836	
2,000.00	1,901.97	1,985.46	1,936.48	11.26	9.60	-133.16	271.96	259.69	218.68	201.20	17.49	12.506	
2,100.00	1,983.88	2,079.37	2,027.52	12.38	10.12	-139.36	277.42	282.11	242.99	224.98	18.01	13.490	
2,200.00	2,063.74	2,173.22	2,118.28	13.57	10.65	-144.67	283.37	305.18	272.04	253.48	18.56	14.660	
2,300.00	2,141.45	2,263.13	2,205.15	14.84	11.16	-148.96	289.64	327.49	305.82	286.70	19.12	15.992	
2,327.78	2,162.65	2,286.91	2,228.17	15.21	11.29	-150.00	291.23	333.26	316.15	296.87	19.28	16.398	
2,400.00	2,217.51	2,348.43	2,287.86	16.17	11.63	-152.82	294.88	347.73	344.29	324.61	19.68	17.492	
2,500.00	2,293.49	2,435.53	2,372.51	17.51	12.10	-156.18	299.89	367.62	385.01	364.73	20.28	18.982	
2,600.00	2,369.47	2,524.31	2,458.84	18.86	12.58	-158.93	305.31	387.62	426.98	406.03	20.94	20.389	
2,700.00	2,445.45	2,625.64	2,557.09	20.22	13.14	-161.65	310.42	411.87	468.44	446.75	21.69	21.594	
2,800.00	2,521.42	2,710.70	2,639.45	21.59	13.62	-163.71	313.50	432.89	509.93	487.56	22.37	22.797	
2,900.00	2,597.40	2,805.65	2,731.32	22.97	14.16	-165.63	317.33	456.53	551.73	528.59	23.13	23.850	
3,000.00	2,673.38	2,895.09	2,817.76	24.34	14.68	-167.21	320.75	479.26	593.49	569.60	23.89	24.846	
3,100.00	2,749.36	2,985.65	2,905.25	25.73	15.20	-168.68	323.40	502.46	635.55	610.89	24.66	25.771	
3,200.00	2,825.33	3,080.59	2,996.88	27.11	15.75	-169.99	326.78	527.09	677.51	652.02	25.49	26.581	
3,300.00	2,901.31	3,165.64	3,078.96	28.50	16.24	-170.90	331.17	548.91	719.61	693.34	26.27	27.391	
3,400.00	2,977.29	3,254.97	3,165.29	29.90	16.75	-171.66	336.81	571.18	762.27	735.17	27.10	28.129	
3,500.00	3,053.27	3,338.02	3,245.63	31.29	17.22	-172.28	342.16	591.57	805.35	777.47	27.88	28.882	
3,600.00	3,129.24	3,424.61	3,329.55	32.69	17.71	-172.86	347.66	612.14	849.24	820.54	28.70	29.592	
3,700.00	3,205.22	3,509.25	3,411.63	34.08	18.17	-173.41	352.52	632.19	893.40	863.90	29.50	30.285	
3,800.00	3,281.20	3,598.49	3,498.29	35.48	18.67	-174.02	356.20	653.20	938.17	907.83	30.34	30.924	
3,900.00	3,357.18	3,687.57	3,584.67	36.88	19.16	-174.62	359.48	674.72	982.59	951.41	31.18	31.513	
4,000.00	3,433.15	3,774.21	3,668.82	38.29	19.64	-175.11	363.13	695.00	1,027.61	995.60	32.01	32.104	
4,100.00	3,509.13	3,867.05	3,758.88	39.69	20.15	-175.61	366.82	717.24	1,072.26	1,039.37	32.89	32.597	
4,200.00	3,585.11	3,951.78	3,841.14	41.09	20.62	-176.02	370.30	737.28	1,117.21	1,083.49	33.71	33.137	
4,300.00	3,661.08	4,039.16	3,926.00	42.50	21.09	-176.40	374.07	757.77	1,162.33	1,127.77	34.56	33.632	
4,400.00	3,737.06	4,120.04	4,004.67	43.90	21.53	-176.66	378.60	775.98	1,207.91	1,172.56	35.35	34.172	
4,500.00	3,813.04	4,209.14	4,091.40	45.31	22.00	-176.92	383.58	795.77	1,253.78	1,217.57	36.21	34.627	
4,600.00	3,889.02	4,305.92	4,185.53	46.71	22.53	-177.21	388.67	817.70	1,299.39	1,262.25	37.14	34.985	
4,700.00	3,964.99	4,372.55	4,250.41	48.12	22.88	-177.38	392.41	832.34	1,345.50	1,307.70	37.80	35.594	
4,800.00	4,040.97	4,475.18	4,350.52	49.53	23.42	-177.65	397.41	854.41	1,392.31	1,353.52	38.79	35.893	
4,900.00	4,116.95	4,564.07	4,436.96	50.94	23.89	-177.92	400.88	874.84	1,438.10	1,398.44	39.66	36.261	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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	4,192.93	4,652.49	4,523.01	52.35	24.37	-178.15	404.84	894.80	1,484.10	1,443.57	40.53	36.621		
5,100.00	4,268.90	4,739.97	4,608.14	53.76	24.84	-178.35	408.93	914.50	1,530.09	1,488.71	41.38	36.973		
5,200.00	4,344.88	4,809.13	4,675.49	55.16	25.20	-178.53	411.48	930.02	1,576.53	1,534.46	42.07	37.470		
5,300.00	4,420.86	4,864.00	4,729.08	56.57	25.49	-178.69	412.47	941.72	1,624.51	1,581.89	42.62	38.115		
5,400.00	4,496.84	4,920.05	4,784.04	57.98	25.76	-178.86	412.95	952.74	1,674.21	1,631.05	43.16	38.788		
5,500.00	4,572.81	4,973.53	4,836.69	59.39	26.01	-179.01	413.36	962.09	1,725.66	1,682.00	43.66	39.520		
5,600.00	4,648.79	5,031.25	4,893.69	60.81	26.26	-179.14	413.74	971.20	1,778.55	1,734.35	44.20	40.240		
5,700.00	4,724.77	5,091.29	4,953.11	62.22	26.51	-179.27	414.06	979.76	1,832.70	1,787.95	44.75	40.955		
5,800.00	4,800.74	5,146.00	5,007.35	63.63	26.73	-179.37	414.30	986.92	1,887.89	1,842.66	45.23	41.737		
5,900.00	4,876.72	5,210.60	5,071.50	65.04	26.97	-179.48	414.52	994.55	1,944.09	1,898.27	45.82	42.427		
6,000.00	4,952.70	5,263.47	5,124.08	66.45	27.16	-179.56	414.65	1,000.05	2,001.39	1,955.12	46.27	43.253		
6,100.00	5,028.68	5,310.79	5,171.23	67.86	27.33	-179.61	414.76	1,004.14	2,060.01	2,013.36	46.65	44.160		
6,200.00	5,104.65	5,360.76	5,221.07	69.27	27.49	-179.66	414.87	1,007.60	2,119.92	2,072.87	47.05	45.057		
6,300.00	5,180.63	5,412.84	5,273.07	70.69	27.65	-179.70	414.98	1,010.49	2,180.87	2,133.40	47.47	45.943		
6,400.00	5,256.61	5,472.98	5,333.15	72.10	27.82	-179.74	415.07	1,013.12	2,242.69	2,194.71	47.98	46.741		
6,500.00	5,332.59	5,537.66	5,397.79	73.51	28.01	-179.77	415.11	1,015.49	2,305.06	2,256.51	48.55	47.481		
6,600.00	5,408.56	5,608.40	5,468.49	74.92	28.21	-179.80	415.24	1,017.74	2,367.75	2,318.57	49.18	48.141		
6,700.00	5,484.54	5,664.13	5,524.21	76.34	28.36	-179.81	415.40	1,019.14	2,430.90	2,381.26	49.64	48.969		
6,800.00	5,560.52	5,719.04	5,579.11	77.75	28.50	-179.82	415.59	1,019.95	2,494.78	2,444.69	50.09	49.807		
6,900.00	5,636.50	5,777.11	5,637.18	79.16	28.65	-179.82	415.74	1,020.33	2,559.26	2,508.69	50.57	50.610		
7,000.00	5,712.47	5,844.13	5,704.20	80.57	28.82	-179.82	415.89	1,020.33	2,624.21	2,573.06	51.15	51.305		
7,100.00	5,788.45	5,917.00	5,777.06	81.99	28.99	-179.82	416.17	1,020.16	2,689.28	2,637.48	51.79	51.923		
7,200.00	5,864.43	5,989.09	5,849.15	83.40	29.16	-179.81	416.35	1,019.94	2,754.44	2,702.02	52.43	52.539		
7,300.00	5,940.40	6,060.22	5,920.29	84.81	29.33	-179.81	416.48	1,019.62	2,819.73	2,766.68	53.05	53.154		
7,400.00	6,016.38	6,132.24	5,992.30	86.23	29.49	-179.81	416.70	1,019.15	2,885.12	2,831.44	53.68	53.746		
7,500.00	6,092.36	6,205.71	6,065.77	87.64	29.67	-179.80	416.93	1,018.58	2,950.60	2,896.27	54.33	54.308		
7,600.00	6,168.34	6,279.16	6,139.22	89.05	29.84	-179.80	417.00	1,018.04	3,016.11	2,961.12	54.98	54.857		
7,700.00	6,244.31	6,344.68	6,204.74	90.47	29.99	-179.79	417.03	1,017.42	3,081.78	3,026.23	55.54	55.483		
7,800.00	6,320.29	6,412.11	6,272.16	91.88	30.15	-179.79	417.13	1,016.54	3,147.67	3,091.54	56.13	56.078		
7,900.00	6,396.27	6,481.30	6,341.34	93.30	30.31	-179.78	417.37	1,015.42	3,213.73	3,157.00	56.74	56.642		
8,000.00	6,472.25	6,552.53	6,412.56	94.71	30.47	-179.77	417.54	1,014.19	3,279.90	3,222.53	57.37	57.173		
8,100.00	6,548.22	6,618.87	6,478.89	96.12	30.63	-179.76	417.40	1,013.02	3,346.20	3,288.26	57.95	57.746		
8,200.00	6,624.20	6,708.14	6,568.14	97.54	30.84	-179.77	416.91	1,011.57	3,412.53	3,353.76	58.78	58.058		
8,300.00	6,700.18	6,780.00	6,675.28	98.95	34.87	-179.76	417.03	1,010.71	3,478.00	3,413.63	64.37	54.028		
8,400.00	6,776.16	6,952.78	6,812.77	100.37	31.48	-179.76	417.89	1,011.39	3,542.31	3,481.13	61.18	57.899		
8,500.00	6,852.13	7,034.04	6,894.03	101.78	31.71	-179.76	418.39	1,012.37	3,606.30	3,544.36	61.95	58.214		
8,600.00	6,928.11	7,109.12	6,969.10	103.20	31.93	-179.76	418.95	1,013.24	3,670.28	3,607.63	62.65	58.583		
8,700.00	7,004.09	7,208.74	7,068.70	104.61	32.21	-179.76	419.80	1,014.65	3,734.05	3,670.44	63.61	58.699		
8,800.00	7,080.06	7,284.35	7,144.30	106.02	32.44	-179.76	420.48	1,015.94	3,797.61	3,733.29	64.32	59.039		
8,900.00	7,156.04	7,348.71	7,208.65	107.44	32.62	-179.76	421.21	1,016.87	3,861.28	3,796.37	64.91	59.483		
9,000.00	7,232.02	7,406.64	7,266.57	108.85	32.79	-179.75	422.15	1,017.35	3,925.26	3,859.83	65.43	59.988		
9,104.68	7,311.55	7,458.92	7,318.85	110.33	32.94	-179.74	422.82	1,017.50	3,992.74	3,926.85	65.89	60.598		
9,150.00	7,346.29	7,484.00	7,343.92	110.97	33.01	171.48	423.03	1,017.47	4,021.70	3,955.59	66.11	60.836		
9,200.00	7,385.15	7,514.85	7,374.78	111.65	33.09	161.83	423.23	1,017.39	4,052.61	3,986.24	66.37	61.061		
9,250.00	7,424.29	7,549.17	7,409.09	112.31	33.18	152.39	423.42	1,017.27	4,082.18	4,015.52	66.66	61.241		
9,300.00	7,463.40	7,583.08	7,443.00	112.93	33.27	143.34	423.60	1,017.12	4,110.21	4,043.28	66.93	61.408		
9,350.00	7,502.19	7,615.01	7,474.94	113.51	33.36	134.86	423.77	1,016.92	4,136.53	4,069.35	67.17	61.578		
9,400.00	7,540.36	7,646.32	7,506.24	114.04	33.44	127.07	423.95	1,016.67	4,161.00	4,093.60	67.40	61.734		
9,450.00	7,577.62	7,678.09	7,538.00	114.53	33.52	120.08	424.14	1,016.36	4,183.48	4,115.86	67.62	61.863		
9,500.00	7,613.70	7,715.80	7,575.71	114.95	33.62	113.97	424.35	1,015.99	4,203.82	4,135.92	67.90	61.909		
9,550.00	7,648.30	7,752.06	7,611.97	115.32	33.72	108.67	424.51	1,015.66	4,221.91	4,153.75	68.16	61.940		
9,600.00	7,681.18	7,786.44	7,646.35	115.63	33.81	104.14	424.62	1,015.39	4,237.66	4,169.26	68.40	61.955		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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		
9,650.00	7,712.08	7,818.69	7,678.60	115.88	33.90	100.31	424.71	1,015.14	4,251.04	4,182.43	68.62	61.954		
9,700.00	7,740.76	7,848.65	7,708.56	116.08	33.98	97.13	424.79	1,014.93	4,262.01	4,193.20	68.81	61.935		
9,750.00	7,767.01	7,883.41	7,743.32	116.23	34.07	94.63	424.89	1,014.72	4,270.55	4,201.47	69.08	61.824		
9,800.00	7,790.63	7,918.57	7,778.48	116.33	34.17	92.70	425.04	1,014.59	4,276.61	4,207.25	69.36	61.660		
9,850.00	7,811.44	7,949.41	7,809.32	116.38	34.25	91.24	425.23	1,014.54	4,280.21	4,210.60	69.61	61.486		
9,900.00	7,829.28	7,974.77	7,834.68	116.38	34.32	90.19	425.42	1,014.55	4,281.41	4,211.57	69.84	61.305		
9,950.00	7,844.01	7,995.45	7,855.36	116.35	34.38	89.54	425.59	1,014.58	4,280.24	4,210.20	70.04	61.110		
10,000.00	7,855.52	8,011.40	7,871.31	116.28	34.43	89.26	425.73	1,014.63	4,276.77	4,206.54	70.23	60.897		
10,050.00	7,863.72	8,022.52	7,882.43	116.18	34.46	89.33	425.84	1,014.67	4,271.06	4,200.65	70.40	60.665		
10,100.00	7,868.56	8,028.75	7,888.66	116.06	34.48	89.73	425.91	1,014.70	4,263.15	4,192.58	70.57	60.412		
10,145.94	7,870.00	8,030.15	7,890.05	115.92	34.48	90.39	425.92	1,014.70	4,254.02	4,183.31	70.71	60.161		
10,200.00	7,870.00	8,029.36	7,889.26	115.76	34.48	90.38	425.91	1,014.70	4,242.56	4,171.67	70.89	59.850		
10,300.00	7,870.00	8,027.91	7,887.82	115.46	34.48	90.36	425.90	1,014.69	4,223.11	4,151.83	71.28	59.250		
10,400.00	7,870.00	8,026.49	7,886.39	115.18	34.47	90.34	425.88	1,014.69	4,205.95	4,134.20	71.75	58.621		
10,500.00	7,870.00	8,025.08	7,884.98	114.91	34.47	90.32	425.87	1,014.68	4,191.10	4,118.80	72.30	57.967		
10,600.00	7,870.00	8,023.68	7,883.59	114.65	34.46	90.30	425.85	1,014.67	4,178.60	4,105.67	72.93	57.294		
10,700.00	7,870.00	8,022.30	7,882.21	114.41	34.46	90.28	425.84	1,014.67	4,168.45	4,094.82	73.64	56.609		
10,800.00	7,870.00	8,020.94	7,880.85	114.17	34.46	90.26	425.83	1,014.66	4,160.69	4,086.28	74.41	55.916		
10,900.00	7,870.00	8,019.60	7,879.50	113.95	34.45	90.24	425.81	1,014.66	4,155.32	4,080.07	75.25	55.221		
11,000.00	7,870.00	8,018.26	7,878.17	113.75	34.45	90.22	425.80	1,014.65	4,152.35	4,076.20	76.15	54.531		
11,073.40	7,870.00	8,017.30	7,877.20	113.60	34.45	90.21	425.79	1,014.65	4,151.70	4,074.85	76.85	54.025		
11,100.00	7,870.00	8,016.95	7,876.85	113.55	34.45	90.20	425.79	1,014.65	4,151.78	4,074.68	77.10	53.850		
11,200.00	7,870.00	8,015.65	7,875.55	113.37	34.44	90.19	425.78	1,014.64	4,153.63	4,075.53	78.10	53.183		
11,300.00	7,870.00	8,014.36	7,874.27	113.20	34.44	90.17	425.76	1,014.64	4,157.88	4,078.73	79.14	52.536		
11,400.00	7,870.00	8,013.09	7,873.00	113.04	34.43	90.15	425.75	1,014.63	4,164.52	4,084.30	80.22	51.912		
11,500.00	7,870.00	8,011.83	7,871.74	112.89	34.43	90.13	425.74	1,014.63	4,173.56	4,092.22	81.33	51.315		
11,600.00	7,870.00	8,010.59	7,870.49	112.76	34.43	90.12	425.73	1,014.63	4,184.96	4,102.49	82.47	50.747		
11,700.00	7,870.00	8,009.36	7,869.26	112.64	34.42	90.10	425.72	1,014.62	4,198.71	4,115.09	83.62	50.212		
11,800.00	7,870.00	8,008.14	7,868.05	112.53	34.42	90.08	425.70	1,014.62	4,214.79	4,130.01	84.79	49.710		
11,900.00	7,870.00	8,006.94	7,866.84	112.44	34.42	90.07	425.69	1,014.61	4,233.18	4,147.22	85.96	49.244		
12,000.00	7,870.00	8,005.75	7,865.65	112.36	34.41	90.05	425.68	1,014.61	4,253.83	4,166.69	87.14	48.815		
12,100.00	7,870.00	8,004.57	7,864.48	112.29	34.41	90.03	425.67	1,014.61	4,276.73	4,188.41	88.32	48.423		
12,200.00	7,870.00	8,003.40	7,863.31	112.24	34.41	90.02	425.66	1,014.60	4,301.82	4,212.33	89.49	48.068		
12,300.00	7,870.00	8,002.25	7,862.16	112.20	34.40	90.00	425.65	1,014.60	4,329.09	4,238.43	90.66	47.751		
12,400.00	7,870.00	8,001.11	7,861.02	112.17	34.40	89.99	425.64	1,014.60	4,358.47	4,266.66	91.81	47.471		
12,500.00	7,870.00	7,999.98	7,859.89	112.16	34.40	89.97	425.63	1,014.59	4,389.94	4,296.99	92.95	47.228		
12,600.00	7,870.00	7,998.87	7,858.77	112.17	34.39	89.96	425.62	1,014.59	4,423.44	4,329.37	94.07	47.022		
12,700.00	7,870.00	7,997.76	7,857.67	112.19	34.39	89.94	425.61	1,014.59	4,458.94	4,363.77	95.17	46.851		
12,800.00	7,870.00	7,996.67	7,856.57	112.23	34.39	89.93	425.60	1,014.59	4,496.38	4,400.13	96.25	46.715		
12,900.00	7,870.00	7,995.59	7,855.49	112.28	34.38	89.91	425.59	1,014.58	4,535.71	4,438.41	97.30	46.613		
13,000.00	7,870.00	7,994.51	7,854.42	112.36	34.38	89.90	425.58	1,014.58	4,576.90	4,478.56	98.33	46.545		
13,100.00	7,870.00	7,993.45	7,853.36	112.45	34.38	89.88	425.57	1,014.58	4,619.88	4,520.54	99.34	46.508		
13,200.00	7,870.00	7,992.40	7,852.31	112.56	34.37	89.87	425.56	1,014.58	4,664.60	4,564.29	100.31	46.501		
13,300.00	7,870.00	7,991.37	7,851.27	112.68	34.37	89.85	425.55	1,014.57	4,711.03	4,609.77	101.26	46.525		
13,400.00	7,870.00	7,990.34	7,850.24	112.83	34.37	89.84	425.54	1,014.57	4,759.10	4,656.93	102.18	46.578		
13,500.00	7,870.00	7,989.32	7,849.23	113.00	34.37	89.82	425.54	1,014.57	4,808.78	4,705.71	103.06	46.658		
13,600.00	7,870.00	7,988.31	7,848.22	113.19	34.36	89.81	425.53	1,014.57	4,860.00	4,756.08	103.92	46.765		
13,700.00	7,870.00	7,987.31	7,847.22	113.40	34.36	89.80	425.52	1,014.57	4,912.73	4,807.97	104.76	46.897		
13,800.00	7,870.00	7,986.32	7,846.23	113.63	34.36	89.78	425.51	1,014.56	4,966.91	4,861.35	105.56	47.054		
13,900.00	7,870.00	7,985.35	7,845.25	113.89	34.35	89.77	425.50	1,014.56	5,022.49	4,916.16	106.33	47.235		
14,000.00	7,870.00	7,984.38	7,844.28	114.18	34.35	89.76	425.49	1,014.56	5,079.44	4,972.36	107.08	47.438		
14,100.00	7,870.00	7,983.42	7,843.32	114.48	34.35	89.74	425.49	1,014.56	5,137.70	5,029.90	107.79	47.662		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference 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		
14,200.00	7,870.00	7,982.47	7,842.37	114.82	34.35	89.73	425.48	1,014.56	5,197.23	5,088.75	108.48	47.908		
14,300.00	7,870.00	7,981.53	7,841.43	115.18	34.34	89.72	425.47	1,014.56	5,257.99	5,148.84	109.15	48.173		
14,400.00	7,870.00	7,980.59	7,840.50	115.57	34.34	89.70	425.46	1,014.56	5,319.93	5,210.15	109.79	48.458		
14,500.00	7,870.00	7,979.67	7,839.58	115.99	34.34	89.69	425.46	1,014.55	5,383.03	5,272.63	110.40	48.760		
14,600.00	7,870.00	7,978.76	7,838.66	116.44	34.34	89.68	425.45	1,014.55	5,447.22	5,336.23	110.99	49.080		
14,700.00	7,870.00	7,977.85	7,837.76	116.92	34.33	89.67	425.44	1,014.55	5,512.48	5,400.93	111.55	49.417		
14,800.00	7,870.00	7,976.95	7,836.86	117.44	34.33	89.65	425.43	1,014.55	5,578.77	5,466.68	112.09	49.770		
14,900.00	7,870.00	7,976.06	7,835.97	117.98	34.33	89.64	425.43	1,014.55	5,646.06	5,533.45	112.61	50.138		
15,000.00	7,870.00	7,975.18	7,835.09	118.56	34.33	89.63	425.42	1,014.55	5,714.30	5,601.19	113.11	50.521		
15,100.00	7,870.00	7,974.31	7,834.22	119.17	34.32	89.62	425.41	1,014.55	5,783.46	5,669.88	113.58	50.918		
15,200.00	7,870.00	7,973.45	7,833.35	119.81	34.32	89.60	425.41	1,014.55	5,853.52	5,739.48	114.04	51.328		
15,300.00	7,870.00	7,972.59	7,832.50	120.48	34.32	89.59	425.40	1,014.55	5,924.44	5,809.96	114.48	51.751		
15,400.00	7,870.00	7,971.74	7,831.65	121.19	34.32	89.58	425.39	1,014.55	5,996.18	5,881.28	114.90	52.187		
15,500.00	7,870.00	7,970.90	7,830.81	121.93	34.31	89.57	425.39	1,014.54	6,068.72	5,953.43	115.30	52.634		
15,600.00	7,870.00	7,970.07	7,829.97	122.71	34.31	89.56	425.38	1,014.54	6,142.04	6,026.36	115.68	53.093		
15,700.00	7,870.00	7,969.24	7,829.15	123.52	34.31	89.55	425.37	1,014.54	6,216.10	6,100.05	116.05	53.563		
15,800.00	7,870.00	7,968.42	7,828.33	124.36	34.31	89.54	425.37	1,014.54	6,290.88	6,174.47	116.41	54.043		
15,900.00	7,870.00	7,967.61	7,827.52	125.23	34.30	89.52	425.36	1,014.54	6,366.35	6,249.60	116.74	54.533		
16,000.00	7,870.00	7,966.81	7,826.71	126.14	34.30	89.51	425.35	1,014.54	6,442.48	6,325.42	117.07	55.032		
16,100.00	7,870.00	7,966.01	7,825.92	127.07	34.30	89.50	425.35	1,014.54	6,519.27	6,401.89	117.38	55.541		
16,200.00	7,870.00	7,965.22	7,825.13	128.04	34.30	89.49	425.34	1,014.54	6,596.67	6,479.00	117.68	56.058		
16,300.00	7,870.00	7,964.44	7,824.34	129.04	34.29	89.48	425.34	1,014.54	6,674.68	6,556.72	117.96	56.584		
16,400.00	7,870.00	7,963.66	7,823.57	130.06	34.29	89.47	425.33	1,014.54	6,753.26	6,635.03	118.23	57.118		
16,500.00	7,870.00	7,962.89	7,822.80	131.11	34.29	89.46	425.32	1,014.54	6,832.40	6,713.91	118.49	57.660		
16,600.00	7,870.00	7,962.13	7,822.04	132.19	34.29	89.45	425.32	1,014.54	6,912.09	6,793.34	118.74	58.210		
16,700.00	7,870.00	7,961.37	7,821.28	133.29	34.29	89.44	425.31	1,014.54	6,992.30	6,873.31	118.98	58.766		
16,800.00	7,870.00	7,960.62	7,820.53	134.42	34.28	89.43	425.31	1,014.54	7,073.01	6,953.79	119.22	59.330		
16,900.00	7,870.00	7,959.88	7,819.79	135.57	34.28	89.42	425.30	1,014.54	7,154.21	7,034.77	119.44	59.900		
17,000.00	7,870.00	7,959.14	7,819.05	136.75	34.28	89.41	425.30	1,014.54	7,235.87	7,116.23	119.65	60.476		
17,100.00	7,870.00	7,958.41	7,818.32	137.94	34.28	89.40	425.29	1,014.54	7,318.00	7,198.15	119.85	61.059		
17,200.00	7,870.00	7,957.69	7,817.60	139.16	34.27	89.39	425.29	1,014.54	7,400.56	7,280.52	120.05	61.647		
17,300.00	7,870.00	7,956.97	7,816.88	140.39	34.27	89.38	425.28	1,014.54	7,483.55	7,363.32	120.23	62.242		
17,400.00	7,870.00	7,956.26	7,816.16	141.65	34.27	89.37	425.28	1,014.54	7,566.95	7,446.54	120.41	62.841		
17,500.00	7,870.00	7,955.55	7,815.46	142.92	34.27	89.36	425.27	1,014.54	7,650.75	7,530.16	120.59	63.446		
17,600.00	7,870.00	7,954.85	7,814.76	144.21	34.27	89.35	425.27	1,014.54	7,734.93	7,614.18	120.75	64.056		
17,700.00	7,870.00	7,954.15	7,814.06	145.52	34.26	89.34	425.26	1,014.54	7,819.49	7,698.58	120.91	64.671		
17,800.00	7,870.00	7,953.47	7,813.37	146.84	34.26	89.33	425.26	1,014.54	7,904.41	7,783.34	121.07	65.290		
17,900.00	7,870.00	7,952.78	7,812.69	148.18	34.26	89.32	425.25	1,014.54	7,989.67	7,868.46	121.21	65.914		
18,000.00	7,870.00	7,952.10	7,812.01	149.54	34.26	89.31	425.25	1,014.54	8,075.27	7,953.92	121.36	66.542		
18,100.00	7,870.00	7,951.45	7,811.36	150.90	34.26	89.30	425.24	1,014.54	8,161.20	8,039.71	121.49	67.174		
18,200.00	7,870.00	7,950.81	7,810.72	152.28	34.26	89.29	425.24	1,014.54	8,247.45	8,125.83	121.62	67.811		
18,300.00	7,870.00	7,950.18	7,810.09	153.67	34.25	89.28	425.23	1,014.54	8,334.01	8,212.26	121.75	68.451		
18,400.00	7,870.00	7,949.55	7,809.46	155.07	34.25	89.27	425.23	1,014.54	8,420.86	8,298.99	121.87	69.095		
18,500.00	7,870.00	7,948.92	7,808.83	156.49	34.25	89.27	425.23	1,014.54	8,508.00	8,386.01	121.99	69.742		
18,600.00	7,870.00	7,948.31	7,808.22	157.91	34.25	89.26	425.22	1,014.54	8,595.42	8,473.32	122.11	70.393		
18,700.00	7,870.00	7,947.69	7,807.60	159.35	34.25	89.25	425.22	1,014.54	8,683.12	8,560.90	122.22	71.047		
18,800.00	7,870.00	7,947.09	7,807.00	160.79	34.24	89.24	425.21	1,014.54	8,771.07	8,648.75	122.32	71.704		
18,900.00	7,870.00	7,946.49	7,806.40	162.25	34.24	89.23	425.21	1,014.54	8,859.28	8,736.86	122.43	72.365		
19,000.00	7,870.00	7,945.89	7,805.80	163.71	34.24	89.22	425.20	1,014.54	8,947.74	8,825.22	122.52	73.028		
19,100.00	7,870.00	7,945.30	7,805.21	165.18	34.24	89.22	425.20	1,014.55	9,036.44	8,913.82	122.62	73.694		
19,200.00	7,870.00	7,944.72	7,804.62	166.66	34.24	89.21	425.20	1,014.55	9,125.38	9,002.66	122.71	74.364		
19,300.00	7,870.00	7,944.14	7,804.04	168.15	34.24	89.20	425.19	1,014.55	9,214.54	9,091.74	122.80	75.035		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 8-2-22 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 139-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,870.00	7,943.56	7,803.47	169.65	34.24	89.19	425.19	1,014.55	9,303.92	9,181.03	122.89	75.709	
19,500.00	7,870.00	7,942.99	7,802.90	171.15	34.23	89.18	425.19	1,014.55	9,393.52	9,270.54	122.97	76.386	
19,600.00	7,870.00	7,942.43	7,802.33	172.66	34.23	89.18	425.18	1,014.55	9,483.32	9,360.26	123.06	77.065	
19,700.00	7,870.00	7,941.87	7,801.77	174.18	34.23	89.17	425.18	1,014.55	9,573.32	9,450.19	123.14	77.746	
19,800.00	7,870.00	7,941.31	7,801.22	175.70	34.23	89.16	425.17	1,014.55	9,663.53	9,540.31	123.21	78.430	
19,889.26	7,870.00	7,940.82	7,800.73	177.06	34.23	89.15	425.17	1,014.55	9,744.20	9,620.92	123.28	79.042	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	68.05	1,835.16	4,553.65	9,334.82					
100.00	100.00	15,353.00	7,799.48	0.13	138.96	68.05	1,835.16	4,553.65	9,249.91	9,161.95	87.97	105.153		
200.00	200.00	15,353.00	7,799.48	0.49	138.96	68.05	1,835.16	4,553.65	9,165.32	9,076.94	88.37	103.710		
300.00	300.00	15,353.00	7,799.48	0.85	138.96	68.05	1,835.16	4,553.65	9,081.03	8,992.22	88.81	102.247		
400.00	399.98	15,353.00	7,799.48	1.21	138.96	-0.10	1,835.16	4,553.65	8,996.13	8,906.84	89.29	100.750		
500.00	499.84	15,353.00	7,799.48	1.56	138.96	-0.11	1,835.16	4,553.65	8,909.73	8,819.94	89.79	99.230		
600.00	599.45	15,353.00	7,799.48	1.93	138.96	-0.11	1,835.16	4,553.65	8,821.88	8,731.60	90.28	97.717		
700.00	698.70	15,353.00	7,799.48	2.32	138.96	-0.12	1,835.16	4,553.65	8,732.66	8,641.90	90.76	96.216		
800.00	797.47	15,353.00	7,799.48	2.72	138.96	-0.13	1,835.16	4,553.65	8,642.13	8,550.90	91.23	94.730		
900.00	895.62	15,353.00	7,799.48	3.16	138.96	-0.14	1,835.16	4,553.65	8,550.36	8,458.67	91.68	93.261		
1,000.00	993.06	15,353.00	7,799.48	3.63	138.96	-0.16	1,835.16	4,553.65	8,457.42	8,365.30	92.12	91.812		
1,100.00	1,089.64	15,353.00	7,799.48	4.14	138.96	-0.17	1,835.16	4,553.65	8,363.39	8,270.86	92.53	90.386		
1,200.00	1,185.27	15,353.00	7,799.48	4.70	138.96	-0.19	1,835.16	4,553.65	8,268.36	8,175.44	92.92	88.983		
1,300.00	1,279.82	15,353.00	7,799.48	5.31	138.96	-0.22	1,835.16	4,553.65	8,172.39	8,079.11	93.29	87.605		
1,400.00	1,373.17	15,353.00	7,799.48	5.97	138.96	-0.25	1,835.16	4,553.65	8,075.59	7,981.96	93.62	86.255		
1,500.00	1,465.21	15,353.00	7,799.48	6.69	138.96	-0.29	1,835.16	4,553.65	7,978.03	7,884.10	93.93	84.932		
1,600.00	1,555.84	15,353.00	7,799.48	7.47	138.96	-0.35	1,835.16	4,553.65	7,879.82	7,785.60	94.21	83.639		
1,700.00	1,644.94	15,353.00	7,799.48	8.31	138.96	-0.43	1,835.16	4,553.65	7,781.04	7,686.58	94.46	82.376		
1,800.00	1,732.39	15,353.00	7,799.48	9.23	138.96	-0.57	1,835.16	4,553.65	7,681.80	7,587.13	94.67	81.146		
1,900.00	1,818.11	15,353.00	7,799.48	10.21	138.96	-0.85	1,835.16	4,553.65	7,582.20	7,487.37	94.84	79.948		
2,000.00	1,901.97	15,353.00	7,799.48	11.26	138.96	-1.62	1,835.16	4,553.65	7,482.36	7,387.39	94.97	78.784		
2,100.00	1,983.88	15,353.00	7,799.48	12.38	138.96	-15.91	1,835.16	4,553.65	7,382.39	7,287.33	95.07	77.656		
2,200.00	2,063.74	15,353.00	7,799.48	13.57	138.96	-177.94	1,835.16	4,553.65	7,282.41	7,187.29	95.12	76.563		
2,300.00	2,141.45	15,353.00	7,799.48	14.84	138.96	-179.02	1,835.16	4,553.65	7,182.53	7,087.41	95.12	75.507		
2,327.78	2,162.65	15,353.00	7,799.48	15.21	138.96	-179.15	1,835.16	4,553.65	7,154.82	7,059.70	95.12	75.221		
2,400.00	2,217.51	15,353.00	7,799.48	16.17	138.96	-179.15	1,835.16	4,553.65	7,082.82	6,987.72	95.10	74.478		
2,500.00	2,293.49	15,353.00	7,799.48	17.51	138.96	-179.15	1,835.16	4,553.65	6,983.12	6,888.05	95.08	73.447		
2,600.00	2,369.47	15,353.00	7,799.48	18.86	138.96	-179.15	1,835.16	4,553.65	6,883.44	6,788.38	95.06	72.415		
2,700.00	2,445.45	15,353.00	7,799.48	20.22	138.96	-179.15	1,835.16	4,553.65	6,783.76	6,688.72	95.04	71.381		
2,800.00	2,521.42	15,353.00	7,799.48	21.59	138.96	-179.15	1,835.16	4,553.65	6,684.09	6,589.08	95.02	70.346		
2,900.00	2,597.40	15,353.00	7,799.48	22.97	138.96	-179.15	1,835.16	4,553.65	6,584.44	6,489.44	95.00	69.310		
3,000.00	2,673.38	15,353.00	7,799.48	24.34	138.96	-179.15	1,835.16	4,553.65	6,484.79	6,389.81	94.98	68.273		
3,100.00	2,749.36	15,353.00	7,799.48	25.73	138.96	-179.15	1,835.16	4,553.65	6,385.15	6,290.19	94.97	67.235		
3,200.00	2,825.33	15,353.00	7,799.48	27.11	138.96	-179.15	1,835.16	4,553.65	6,285.53	6,190.58	94.95	66.197		
3,300.00	2,901.31	15,353.00	7,799.48	28.50	138.96	-179.15	1,835.16	4,553.65	6,185.92	6,090.98	94.94	65.158		
3,400.00	2,977.29	15,353.00	7,799.48	29.90	138.96	-179.15	1,835.16	4,553.65	6,086.32	5,991.40	94.92	64.119		
3,500.00	3,053.27	15,353.00	7,799.48	31.29	138.96	-179.15	1,835.16	4,553.65	5,986.73	5,891.82	94.91	63.079		
3,600.00	3,129.24	15,353.00	7,799.48	32.69	138.96	-179.15	1,835.16	4,553.65	5,887.16	5,792.27	94.89	62.039		
3,700.00	3,205.22	15,353.00	7,799.48	34.08	138.96	-179.15	1,835.16	4,553.65	5,787.60	5,692.72	94.88	60.999		
3,800.00	3,281.20	15,353.00	7,799.48	35.48	138.96	-179.15	1,835.16	4,553.65	5,688.06	5,593.20	94.87	59.959		
3,900.00	3,357.18	15,353.00	7,799.48	36.88	138.96	-179.15	1,835.16	4,553.65	5,588.54	5,493.69	94.85	58.919		
4,000.00	3,433.15	15,353.00	7,799.48	38.29	138.96	-179.15	1,835.16	4,553.65	5,489.03	5,394.19	94.84	57.879		
4,100.00	3,509.13	15,353.00	7,799.48	39.69	138.96	-179.15	1,835.16	4,553.65	5,389.54	5,294.72	94.82	56.840		
4,200.00	3,585.11	15,353.00	7,799.48	41.09	138.96	-179.15	1,835.16	4,553.65	5,290.07	5,195.27	94.80	55.801		
4,300.00	3,661.08	15,353.00	7,799.48	42.50	138.96	-179.15	1,835.16	4,553.65	5,190.62	5,095.84	94.78	54.763		
4,400.00	3,737.06	15,353.00	7,799.48	43.90	138.96	-179.15	1,835.16	4,553.65	5,091.19	4,996.43	94.76	53.725		
4,500.00	3,813.04	15,353.00	7,799.48	45.31	138.96	-179.15	1,835.16	4,553.65	4,991.79	4,897.04	94.74	52.689		
4,600.00	3,889.02	15,353.00	7,799.48	46.71	138.96	-179.15	1,835.16	4,553.65	4,892.40	4,797.69	94.72	51.653		
4,700.00	3,964.99	15,353.00	7,799.48	48.12	138.96	-179.15	1,835.16	4,553.65	4,793.05	4,698.36	94.69	50.618		
4,800.00	4,040.97	15,353.00	7,799.48	49.53	138.96	-179.15	1,835.16	4,553.65	4,693.72	4,599.06	94.66	49.585		
4,900.00	4,116.95	15,353.00	7,799.48	50.94	138.96	-179.15	1,835.16	4,553.65	4,594.42	4,499.79	94.63	48.552		
5,000.00	4,192.93	15,353.00	7,799.48	52.35	138.96	-179.15	1,835.16	4,553.65	4,495.15	4,400.56	94.59	47.521		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,268.90	15,353.00	7,799.48	53.76	138.96	-179.15	1,835.16	4,553.65	4,395.92	4,301.36	94.55	46.491		
5,200.00	4,344.88	15,353.00	7,799.48	55.16	138.96	-179.15	1,835.16	4,553.65	4,296.72	4,202.21	94.51	45.463		
5,300.00	4,420.86	15,353.00	7,799.48	56.57	138.96	-179.15	1,835.16	4,553.65	4,197.56	4,103.09	94.46	44.436		
5,400.00	4,496.84	15,353.00	7,799.48	57.98	138.96	-179.15	1,835.16	4,553.65	4,098.44	4,004.03	94.41	43.411		
5,500.00	4,572.81	15,353.00	7,799.48	59.39	138.96	-179.15	1,835.16	4,553.65	3,999.36	3,905.01	94.35	42.387		
5,600.00	4,648.79	15,353.00	7,799.48	60.81	138.96	-179.15	1,835.16	4,553.65	3,900.33	3,806.04	94.29	41.365		
5,700.00	4,724.77	15,353.00	7,799.48	62.22	138.96	-179.15	1,835.16	4,553.65	3,801.35	3,707.13	94.22	40.345		
5,800.00	4,800.74	15,353.00	7,799.48	63.63	138.96	-179.15	1,835.16	4,553.65	3,702.43	3,608.28	94.14	39.327		
5,900.00	4,876.72	15,353.00	7,799.48	65.04	138.96	-179.15	1,835.16	4,553.65	3,603.56	3,509.50	94.06	38.311		
6,000.00	4,952.70	15,353.00	7,799.48	66.45	138.96	-179.15	1,835.16	4,553.65	3,504.76	3,410.79	93.97	37.298		
6,100.00	5,028.68	15,353.00	7,799.48	67.86	138.96	-179.15	1,835.16	4,553.65	3,406.03	3,312.16	93.87	36.286		
6,200.00	5,104.65	15,353.00	7,799.48	69.27	138.96	-179.15	1,835.16	4,553.65	3,307.38	3,213.62	93.76	35.276		
6,300.00	5,180.63	15,353.00	7,799.48	70.69	138.96	-179.15	1,835.16	4,553.65	3,208.81	3,115.17	93.64	34.269		
6,400.00	5,256.61	15,353.00	7,799.48	72.10	138.96	-179.15	1,835.16	4,553.65	3,110.33	3,016.82	93.50	33.264		
6,500.00	5,332.59	15,353.00	7,799.48	73.51	138.96	-179.15	1,835.16	4,553.65	3,011.95	2,918.59	93.36	32.262		
6,600.00	5,408.56	15,353.00	7,799.48	74.92	138.96	-179.15	1,835.16	4,553.65	2,913.68	2,820.48	93.20	31.261		
6,700.00	5,484.54	15,353.00	7,799.48	76.34	138.96	-179.15	1,835.16	4,553.65	2,815.53	2,722.50	93.03	30.264		
6,800.00	5,560.52	15,353.00	7,799.48	77.75	138.96	-179.15	1,835.16	4,553.65	2,717.52	2,624.67	92.85	29.269		
6,900.00	5,636.50	15,353.00	7,799.48	79.16	138.96	-179.15	1,835.16	4,553.65	2,619.66	2,527.01	92.64	28.276		
7,000.00	5,712.47	15,353.00	7,799.48	80.57	138.96	-179.15	1,835.16	4,553.65	2,521.97	2,429.54	92.43	27.287		
7,100.00	5,788.45	15,353.00	7,799.48	81.99	138.96	-179.15	1,835.16	4,553.65	2,424.46	2,332.27	92.19	26.299		
7,200.00	5,864.43	15,353.00	7,799.48	83.40	138.96	-179.15	1,835.16	4,553.65	2,327.17	2,235.24	91.93	25.315		
7,300.00	5,940.40	15,353.00	7,799.48	84.81	138.96	-179.15	1,835.16	4,553.65	2,230.11	2,138.46	91.65	24.333		
7,400.00	6,016.38	15,353.00	7,799.48	86.23	138.96	-179.15	1,835.16	4,553.65	2,133.33	2,041.98	91.35	23.354		
7,500.00	6,092.36	15,353.00	7,799.48	87.64	138.96	-179.15	1,835.16	4,553.65	2,036.86	1,945.83	91.02	22.377		
7,600.00	6,168.34	15,353.00	7,799.48	89.05	138.96	-179.15	1,835.16	4,553.65	1,940.74	1,850.07	90.68	21.403		
7,700.00	6,244.31	15,353.00	7,799.48	90.47	138.96	-179.15	1,835.16	4,553.65	1,845.04	1,754.73	90.31	20.431		
7,800.00	6,320.29	15,353.00	7,799.48	91.88	138.96	-179.15	1,835.16	4,553.65	1,749.82	1,659.90	89.92	19.460		
7,900.00	6,396.27	15,353.00	7,799.48	93.30	138.96	-179.15	1,835.16	4,553.65	1,655.16	1,565.66	89.51	18.492		
8,000.00	6,472.25	15,353.00	7,799.48	94.71	138.96	-179.15	1,835.16	4,553.65	1,561.17	1,472.08	89.09	17.524		
8,100.00	6,548.22	15,353.00	7,799.48	96.12	138.96	-179.15	1,835.16	4,553.65	1,467.98	1,379.31	88.67	16.555		
8,200.00	6,624.20	15,353.00	7,799.48	97.54	138.96	-179.15	1,835.16	4,553.65	1,375.74	1,287.46	88.28	15.584		
8,300.00	6,700.18	15,353.00	7,799.48	98.95	138.96	-179.15	1,835.16	4,553.65	1,284.66	1,196.72	87.94	14.609		
8,400.00	6,776.16	15,353.00	7,799.48	100.37	138.96	-179.15	1,835.16	4,553.65	1,195.01	1,107.30	87.71	13.624		
8,500.00	6,852.13	15,353.00	7,799.48	101.78	138.96	-179.15	1,835.16	4,553.65	1,107.13	1,019.44	87.70	12.625		
8,600.00	6,928.11	15,353.00	7,799.48	103.20	138.96	-179.15	1,835.16	4,553.65	1,021.49	933.45	88.04	11.603		
8,700.00	7,004.09	15,353.00	7,799.48	104.61	138.96	-179.15	1,835.16	4,553.65	938.69	849.69	88.99	10.548		
8,800.00	7,080.06	15,353.00	7,799.48	106.02	138.96	-179.15	1,835.16	4,553.65	859.55	768.60	90.95	9.450		
8,900.00	7,156.04	15,349.24	7,799.51	107.44	138.89	-178.78	1,838.92	4,553.58	785.18	690.77	94.41	8.317		
9,000.00	7,232.02	15,325.35	7,799.73	108.85	138.48	-176.41	1,862.80	4,553.19	716.56	616.60	99.96	7.169		
9,104.68	7,311.55	15,300.35	7,799.95	110.33	138.04	-173.88	1,887.79	4,552.77	652.52	543.13	109.39	5.965		
9,150.00	7,346.29	15,291.18	7,800.04	110.97	137.88	-175.22	1,896.97	4,552.63	627.64	512.83	114.82	5.467		
9,200.00	7,385.15	15,285.07	7,800.10	111.65	137.78	-177.76	1,903.07	4,552.54	602.41	480.60	121.80	4.946		
9,250.00	7,424.29	15,283.34	7,800.11	112.31	137.75	-178.64	1,904.80	4,552.51	580.11	450.40	129.71	4.472		
9,300.00	7,463.40	15,286.12	7,800.09	112.93	137.79	-174.11	1,902.02	4,552.55	561.32	423.03	138.29	4.059		
9,350.00	7,502.19	15,293.51	7,800.02	113.51	137.92	-168.82	1,894.64	4,552.66	546.48	399.33	147.15	3.714		
9,400.00	7,540.36	15,305.57	7,799.91	114.04	138.13	-162.94	1,882.57	4,552.87	535.85	379.97	155.89	3.437		
9,450.00	7,577.62	15,320.76	7,799.77	114.53	138.40	-156.81	1,867.39	4,553.11	529.52	365.35	164.17	3.225		
9,500.00	7,613.70	15,340.45	7,799.59	114.95	138.74	-150.39	1,847.70	4,553.44	527.30	355.72	171.57	3.073		
9,503.61	7,616.24	15,342.03	7,799.58	114.98	138.77	-149.92	1,846.13	4,553.46	527.29	355.22	172.06	3.064 CC		
9,550.00	7,648.30	15,353.00	7,799.48	115.32	138.96	-144.88	1,835.16	4,553.65	528.93	350.18	178.75	2.959		
9,600.00	7,681.18	15,353.00	7,799.48	115.63	138.96	-140.67	1,835.16	4,553.65	534.92	348.82	186.09	2.874 ES		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
9,650.00	7,712.08	15,353.00	7,799.48	115.88	138.96	136.51	1,835.16	4,553.65	545.20	352.70	192.50	2.832		
9,700.00	7,740.76	15,353.00	7,799.48	116.08	138.96	132.37	1,835.16	4,553.65	559.46	361.61	197.86	2.828 SF		
9,750.00	7,767.01	15,353.00	7,799.48	116.23	138.96	128.21	1,835.16	4,553.65	577.32	375.19	202.13	2.856		
9,800.00	7,790.63	15,353.00	7,799.48	116.33	138.96	124.03	1,835.16	4,553.65	598.31	392.95	205.36	2.913		
9,850.00	7,811.44	15,353.00	7,799.48	116.38	138.96	119.83	1,835.16	4,553.65	621.97	414.36	207.61	2.996		
9,900.00	7,829.28	15,353.00	7,799.48	116.38	138.96	115.63	1,835.16	4,553.65	647.84	438.86	208.98	3.100		
9,950.00	7,844.01	15,353.00	7,799.48	116.35	138.96	111.45	1,835.16	4,553.65	675.48	465.90	209.59	3.223		
10,000.00	7,855.52	15,353.00	7,799.48	116.28	138.96	107.36	1,835.16	4,553.65	704.48	494.96	209.52	3.362		
10,050.00	7,863.72	15,353.00	7,799.48	116.18	138.96	103.40	1,835.16	4,553.65	734.48	525.59	208.89	3.516		
10,100.00	7,868.56	15,353.00	7,799.48	116.06	138.96	99.64	1,835.16	4,553.65	765.14	557.37	207.77	3.683		
10,145.94	7,870.00	15,353.00	7,799.48	115.92	138.96	96.42	1,835.16	4,553.65	793.64	587.27	206.37	3.846		
10,200.00	7,870.00	15,353.00	7,799.48	115.76	138.96	96.42	1,835.16	4,553.65	828.35	623.96	204.39	4.053		
10,300.00	7,870.00	15,353.00	7,799.48	115.46	138.96	96.42	1,835.16	4,553.65	897.63	697.41	200.22	4.483		
10,400.00	7,870.00	15,353.00	7,799.48	115.18	138.96	96.42	1,835.16	4,553.65	972.27	776.49	195.78	4.966		
10,500.00	7,870.00	15,353.00	7,799.48	114.91	138.96	96.42	1,835.16	4,553.65	1,051.13	859.75	191.38	5.492		
10,600.00	7,870.00	15,353.00	7,799.48	114.65	138.96	96.42	1,835.16	4,553.65	1,133.33	946.16	187.17	6.055		
10,700.00	7,870.00	15,353.00	7,799.48	114.41	138.96	96.42	1,835.16	4,553.65	1,218.20	1,034.94	183.26	6.648		
10,800.00	7,870.00	15,353.00	7,799.48	114.17	138.96	96.42	1,835.16	4,553.65	1,305.21	1,125.56	179.65	7.265		
10,900.00	7,870.00	15,353.00	7,799.48	113.95	138.96	96.42	1,835.16	4,553.65	1,393.97	1,217.61	176.36	7.904		
11,000.00	7,870.00	15,353.00	7,799.48	113.75	138.96	96.42	1,835.16	4,553.65	1,484.15	1,310.79	173.37	8.561		
11,100.00	7,870.00	15,353.00	7,799.48	113.55	138.96	96.42	1,835.16	4,553.65	1,575.52	1,404.87	170.66	9.232		
11,200.00	7,870.00	15,353.00	7,799.48	113.37	138.96	96.42	1,835.16	4,553.65	1,667.89	1,499.69	168.20	9.916		
11,300.00	7,870.00	15,353.00	7,799.48	113.20	138.96	96.42	1,835.16	4,553.65	1,761.08	1,595.11	165.97	10.611		
11,400.00	7,870.00	15,353.00	7,799.48	113.04	138.96	96.42	1,835.16	4,553.65	1,854.99	1,691.04	163.95	11.314		
11,500.00	7,870.00	15,353.00	7,799.48	112.89	138.96	96.42	1,835.16	4,553.65	1,949.50	1,787.38	162.12	12.025		
11,600.00	7,870.00	15,353.00	7,799.48	112.76	138.96	96.42	1,835.16	4,553.65	2,044.53	1,884.09	160.45	12.743		
11,700.00	7,870.00	15,353.00	7,799.48	112.64	138.96	96.42	1,835.16	4,553.65	2,140.02	1,981.09	158.93	13.466		
11,800.00	7,870.00	15,353.00	7,799.48	112.53	138.96	96.42	1,835.16	4,553.65	2,235.90	2,078.36	157.54	14.193		
11,900.00	7,870.00	15,353.00	7,799.48	112.44	138.96	96.42	1,835.16	4,553.65	2,332.13	2,175.86	156.27	14.924		
12,000.00	7,870.00	15,353.00	7,799.48	112.36	138.96	96.42	1,835.16	4,553.65	2,428.66	2,273.56	155.10	15.658		
12,100.00	7,870.00	15,353.00	7,799.48	112.29	138.96	96.42	1,835.16	4,553.65	2,525.46	2,371.43	154.03	16.396		
12,200.00	7,870.00	15,353.00	7,799.48	112.24	138.96	96.42	1,835.16	4,553.65	2,622.50	2,469.45	153.05	17.135		
12,300.00	7,870.00	15,353.00	7,799.48	112.20	138.96	96.42	1,835.16	4,553.65	2,719.76	2,567.62	152.14	17.876		
12,400.00	7,870.00	15,353.00	7,799.48	112.17	138.96	96.42	1,835.16	4,553.65	2,817.21	2,665.90	151.31	18.619		
12,500.00	7,870.00	15,353.00	7,799.48	112.16	138.96	96.42	1,835.16	4,553.65	2,914.83	2,764.29	150.53	19.363		
12,600.00	7,870.00	15,353.00	7,799.48	112.17	138.96	96.42	1,835.16	4,553.65	3,012.61	2,862.79	149.82	20.108		
12,700.00	7,870.00	15,353.00	7,799.48	112.19	138.96	96.42	1,835.16	4,553.65	3,110.52	2,961.37	149.15	20.855		
12,800.00	7,870.00	15,353.00	7,799.48	112.23	138.96	96.42	1,835.16	4,553.65	3,208.57	3,060.04	148.54	21.601		
12,900.00	7,870.00	15,353.00	7,799.48	112.28	138.96	96.42	1,835.16	4,553.65	3,306.74	3,158.77	147.96	22.349		
13,000.00	7,870.00	15,353.00	7,799.48	112.36	138.96	96.42	1,835.16	4,553.65	3,405.01	3,257.58	147.43	23.096		
13,100.00	7,870.00	15,353.00	7,799.48	112.45	138.96	96.42	1,835.16	4,553.65	3,503.38	3,356.45	146.93	23.845		
13,200.00	7,870.00	15,353.00	7,799.48	112.56	138.96	96.42	1,835.16	4,553.65	3,601.83	3,455.38	146.46	24.593		
13,300.00	7,870.00	15,353.00	7,799.48	112.68	138.96	96.42	1,835.16	4,553.65	3,700.37	3,554.35	146.02	25.341		
13,400.00	7,870.00	15,353.00	7,799.48	112.83	138.96	96.42	1,835.16	4,553.65	3,798.99	3,653.38	145.61	26.090		
13,500.00	7,870.00	15,353.00	7,799.48	113.00	138.96	96.42	1,835.16	4,553.65	3,897.68	3,752.45	145.23	26.838		
13,600.00	7,870.00	15,353.00	7,799.48	113.19	138.96	96.42	1,835.16	4,553.65	3,996.43	3,851.57	144.87	27.587		
13,700.00	7,870.00	15,353.00	7,799.48	113.40	138.96	96.42	1,835.16	4,553.65	4,095.25	3,950.72	144.53	28.335		
13,800.00	7,870.00	15,353.00	7,799.48	113.63	138.96	96.42	1,835.16	4,553.65	4,194.12	4,049.91	144.21	29.084		
13,900.00	7,870.00	15,353.00	7,799.48	113.89	138.96	96.42	1,835.16	4,553.65	4,293.04	4,149.13	143.91	29.832		
14,000.00	7,870.00	15,353.00	7,799.48	114.18	138.96	96.42	1,835.16	4,553.65	4,392.01	4,248.39	143.62	30.580		
14,100.00	7,870.00	15,353.00	7,799.48	114.48	138.96	96.42	1,835.16	4,553.65	4,491.03	4,347.67	143.36	31.328		
14,200.00	7,870.00	15,353.00	7,799.48	114.82	138.96	96.42	1,835.16	4,553.65	4,590.09	4,446.98	143.10	32.075		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
14,300.00	7,870.00	15,353.00	7,799.48	115.18	138.96	96.42	1,835.16	4,553.65	4,689.18	4,546.32	142.86	32.823		
14,400.00	7,870.00	15,353.00	7,799.48	115.57	138.96	96.42	1,835.16	4,553.65	4,788.32	4,645.68	142.64	33.570		
14,500.00	7,870.00	15,353.00	7,799.48	115.99	138.96	96.42	1,835.16	4,553.65	4,887.49	4,745.07	142.42	34.316		
14,600.00	7,870.00	15,353.00	7,799.48	116.44	138.96	96.42	1,835.16	4,553.65	4,986.70	4,844.48	142.22	35.063		
14,700.00	7,870.00	15,353.00	7,799.48	116.92	138.96	96.42	1,835.16	4,553.65	5,085.93	4,943.91	142.03	35.809		
14,800.00	7,870.00	15,353.00	7,799.48	117.44	138.96	96.42	1,835.16	4,553.65	5,185.20	5,043.35	141.85	36.555		
14,900.00	7,870.00	15,353.00	7,799.48	117.98	138.96	96.42	1,835.16	4,553.65	5,284.49	5,142.82	141.67	37.301		
15,000.00	7,870.00	15,353.00	7,799.48	118.56	138.96	96.42	1,835.16	4,553.65	5,383.81	5,242.30	141.51	38.046		
15,100.00	7,870.00	15,353.00	7,799.48	119.17	138.96	96.42	1,835.16	4,553.65	5,483.16	5,341.80	141.35	38.791		
15,200.00	7,870.00	15,353.00	7,799.48	119.81	138.96	96.42	1,835.16	4,553.65	5,582.52	5,441.32	141.20	39.536		
15,300.00	7,870.00	15,353.00	7,799.48	120.48	138.96	96.42	1,835.16	4,553.65	5,681.91	5,540.85	141.06	40.280		
15,400.00	7,870.00	15,353.00	7,799.48	121.19	138.96	96.42	1,835.16	4,553.65	5,781.32	5,640.40	140.93	41.024		
15,500.00	7,870.00	15,353.00	7,799.48	121.93	138.96	96.42	1,835.16	4,553.65	5,880.75	5,739.96	140.80	41.768		
15,600.00	7,870.00	15,353.00	7,799.48	122.71	138.96	96.42	1,835.16	4,553.65	5,980.20	5,839.53	140.67	42.511		
15,700.00	7,870.00	15,353.00	7,799.48	123.52	138.96	96.42	1,835.16	4,553.65	6,079.67	5,939.11	140.56	43.254		
15,800.00	7,870.00	15,353.00	7,799.48	124.36	138.96	96.42	1,835.16	4,553.65	6,179.16	6,038.71	140.45	43.996		
15,900.00	7,870.00	15,353.00	7,799.48	125.23	138.96	96.42	1,835.16	4,553.65	6,278.66	6,138.32	140.34	44.739		
16,000.00	7,870.00	15,353.00	7,799.48	126.14	138.96	96.42	1,835.16	4,553.65	6,378.17	6,237.94	140.24	45.481		
16,100.00	7,870.00	15,353.00	7,799.48	127.07	138.96	96.42	1,835.16	4,553.65	6,477.71	6,337.56	140.14	46.222		
16,200.00	7,870.00	15,353.00	7,799.48	128.04	138.96	96.42	1,835.16	4,553.65	6,577.25	6,437.20	140.05	46.964		
16,300.00	7,870.00	15,353.00	7,799.48	129.04	138.96	96.42	1,835.16	4,553.65	6,676.81	6,536.85	139.96	47.704		
16,400.00	7,870.00	15,353.00	7,799.48	130.06	138.96	96.42	1,835.16	4,553.65	6,776.38	6,636.51	139.88	48.445		
16,500.00	7,870.00	15,353.00	7,799.48	131.11	138.96	96.42	1,835.16	4,553.65	6,875.97	6,736.17	139.80	49.185		
16,600.00	7,870.00	15,353.00	7,799.48	132.19	138.96	96.42	1,835.16	4,553.65	6,975.57	6,835.84	139.72	49.925		
16,700.00	7,870.00	15,353.00	7,799.48	133.29	138.96	96.42	1,835.16	4,553.65	7,075.17	6,935.53	139.65	50.664		
16,800.00	7,870.00	15,353.00	7,799.48	134.42	138.96	96.42	1,835.16	4,553.65	7,174.79	7,035.22	139.58	51.404		
16,900.00	7,870.00	15,353.00	7,799.48	135.57	138.96	96.42	1,835.16	4,553.65	7,274.42	7,134.91	139.51	52.142		
17,000.00	7,870.00	15,353.00	7,799.48	136.75	138.96	96.42	1,835.16	4,553.65	7,374.06	7,234.61	139.45	52.881		
17,100.00	7,870.00	15,353.00	7,799.48	137.94	138.96	96.42	1,835.16	4,553.65	7,473.71	7,334.32	139.39	53.619		
17,200.00	7,870.00	15,353.00	7,799.48	139.16	138.96	96.42	1,835.16	4,553.65	7,573.37	7,434.04	139.33	54.356		
17,300.00	7,870.00	15,353.00	7,799.48	140.39	138.96	96.42	1,835.16	4,553.65	7,673.04	7,533.76	139.27	55.094		
17,400.00	7,870.00	15,353.00	7,799.48	141.65	138.96	96.42	1,835.16	4,553.65	7,772.71	7,633.49	139.22	55.831		
17,500.00	7,870.00	15,353.00	7,799.48	142.92	138.96	96.42	1,835.16	4,553.65	7,872.40	7,733.23	139.17	56.567		
17,600.00	7,870.00	15,353.00	7,799.48	144.21	138.96	96.42	1,835.16	4,553.65	7,972.09	7,832.97	139.12	57.303		
17,700.00	7,870.00	15,353.00	7,799.48	145.52	138.96	96.42	1,835.16	4,553.65	8,071.79	7,932.71	139.07	58.039		
17,800.00	7,870.00	15,353.00	7,799.48	146.84	138.96	96.42	1,835.16	4,553.65	8,171.49	8,032.46	139.03	58.775		
17,900.00	7,870.00	15,353.00	7,799.48	148.18	138.96	96.42	1,835.16	4,553.65	8,271.21	8,132.22	138.99	59.510		
18,000.00	7,870.00	15,353.00	7,799.48	149.54	138.96	96.42	1,835.16	4,553.65	8,370.93	8,231.98	138.95	60.244		
18,100.00	7,870.00	15,353.00	7,799.48	150.90	138.96	96.42	1,835.16	4,553.65	8,470.66	8,331.75	138.91	60.979		
18,200.00	7,870.00	15,353.00	7,799.48	152.28	138.96	96.42	1,835.16	4,553.65	8,570.39	8,431.52	138.88	61.713		
18,300.00	7,870.00	15,353.00	7,799.48	153.67	138.96	96.42	1,835.16	4,553.65	8,670.13	8,531.29	138.84	62.446		
18,400.00	7,870.00	15,353.00	7,799.48	155.07	138.96	96.42	1,835.16	4,553.65	8,769.88	8,631.07	138.81	63.180		
18,500.00	7,870.00	15,353.00	7,799.48	156.49	138.96	96.42	1,835.16	4,553.65	8,869.63	8,730.85	138.78	63.912		
18,600.00	7,870.00	15,353.00	7,799.48	157.91	138.96	96.42	1,835.16	4,553.65	8,969.39	8,830.64	138.75	64.645		
18,700.00	7,870.00	15,353.00	7,799.48	159.35	138.96	96.42	1,835.16	4,553.65	9,069.15	8,930.43	138.72	65.377		
18,800.00	7,870.00	15,353.00	7,799.48	160.79	138.96	96.42	1,835.16	4,553.65	9,168.92	9,030.22	138.70	66.108		
18,900.00	7,870.00	15,353.00	7,799.48	162.25	138.96	96.42	1,835.16	4,553.65	9,268.69	9,130.02	138.67	66.840		
19,000.00	7,870.00	15,353.00	7,799.48	163.71	138.96	96.42	1,835.16	4,553.65	9,368.47	9,229.82	138.65	67.571		
19,100.00	7,870.00	15,353.00	7,799.48	165.18	138.96	96.42	1,835.16	4,553.65	9,468.25	9,329.62	138.63	68.301		
19,200.00	7,870.00	15,353.00	7,799.48	166.66	138.96	96.42	1,835.16	4,553.65	9,568.03	9,429.43	138.60	69.031		
19,300.00	7,870.00	15,353.00	7,799.48	168.15	138.96	96.42	1,835.16	4,553.65	9,667.83	9,529.24	138.59	69.761		
19,400.00	7,870.00	15,353.00	7,799.48	169.65	138.96	96.42	1,835.16	4,553.65	9,767.62	9,629.05	138.57	70.490		

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

Anticollision Report

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

Offset Design		SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 15C-14HZ - OWB - FINAL SURVEY										Offset Site Error:	0.00 usft
Survey Program: 16-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis				Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,500.00	7,870.00	15,353.00	7,799.48	171.15	138.96	96.42	1,835.16	4,553.65	9,867.42	9,728.87	138.55	71.219	
19,600.00	7,870.00	15,353.00	7,799.48	172.66	138.96	96.42	1,835.16	4,553.65	9,967.22	9,828.69	138.54	71.947	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	69.33	1,844.58	4,889.34	9,395.66					
100.00	100.00	15,243.00	7,668.35	0.13	138.66	69.33	1,844.58	4,889.34	9,312.72	9,221.95	90.77	102.592		
200.00	200.00	15,243.00	7,668.35	0.49	138.66	69.33	1,844.58	4,889.34	9,230.12	9,138.90	91.22	101.189		
300.00	300.00	15,243.00	7,668.35	0.85	138.66	69.33	1,844.58	4,889.34	9,147.87	9,056.17	91.69	99.766		
400.00	399.98	15,243.00	7,668.35	1.21	138.66	1.25	1,844.58	4,889.34	9,064.98	8,972.77	92.21	98.308		
500.00	499.84	15,243.00	7,668.35	1.56	138.66	1.32	1,844.58	4,889.34	8,980.51	8,887.76	92.75	96.825		
600.00	599.45	15,243.00	7,668.35	1.93	138.66	1.40	1,844.58	4,889.34	8,894.53	8,801.24	93.29	95.348		
700.00	698.70	15,243.00	7,668.35	2.32	138.66	1.49	1,844.58	4,889.34	8,807.08	8,713.27	93.81	93.880		
800.00	797.47	15,243.00	7,668.35	2.72	138.66	1.59	1,844.58	4,889.34	8,718.24	8,623.92	94.33	92.426		
900.00	895.62	15,243.00	7,668.35	3.16	138.66	1.71	1,844.58	4,889.34	8,628.08	8,533.25	94.83	90.987		
1,000.00	993.06	15,243.00	7,668.35	3.63	138.66	1.85	1,844.58	4,889.34	8,536.65	8,441.34	95.31	89.567		
1,100.00	1,089.64	15,243.00	7,668.35	4.14	138.66	2.02	1,844.58	4,889.34	8,444.04	8,348.27	95.77	88.167		
1,200.00	1,185.27	15,243.00	7,668.35	4.70	138.66	2.22	1,844.58	4,889.34	8,350.32	8,254.11	96.22	86.788		
1,300.00	1,279.82	15,243.00	7,668.35	5.31	138.66	2.46	1,844.58	4,889.34	8,255.57	8,158.94	96.63	85.432		
1,400.00	1,373.17	15,243.00	7,668.35	5.97	138.66	2.76	1,844.58	4,889.34	8,159.87	8,062.84	97.03	84.100		
1,500.00	1,465.21	15,243.00	7,668.35	6.69	138.66	3.14	1,844.58	4,889.34	8,063.30	7,965.91	97.39	82.794		
1,600.00	1,555.84	15,243.00	7,668.35	7.47	138.66	3.65	1,844.58	4,889.34	7,965.96	7,868.23	97.72	81.514		
1,700.00	1,644.94	15,243.00	7,668.35	8.31	138.66	4.34	1,844.58	4,889.34	7,867.93	7,769.90	98.03	80.262		
1,800.00	1,732.39	15,243.00	7,668.35	9.23	138.66	5.35	1,844.58	4,889.34	7,769.31	7,671.01	98.30	79.040		
1,900.00	1,818.11	15,243.00	7,668.35	10.21	138.66	6.94	1,844.58	4,889.34	7,670.20	7,571.67	98.53	77.847		
2,000.00	1,901.97	15,243.00	7,668.35	11.26	138.66	9.85	1,844.58	4,889.34	7,570.71	7,471.98	98.72	76.685		
2,100.00	1,983.88	15,243.00	7,668.35	12.38	138.66	16.68	1,844.58	4,889.34	7,470.94	7,372.06	98.88	75.556		
2,200.00	2,063.74	15,243.00	7,668.35	13.57	138.66	46.73	1,844.58	4,889.34	7,371.00	7,272.01	98.99	74.459		
2,300.00	2,141.45	15,243.00	7,668.35	14.84	138.66	144.91	1,844.58	4,889.34	7,271.02	7,171.95	99.07	73.396		
2,327.78	2,162.65	15,243.00	7,668.35	15.21	138.66	154.26	1,844.58	4,889.34	7,243.24	7,144.17	99.08	73.107		
2,400.00	2,217.51	15,243.00	7,668.35	16.17	138.66	154.26	1,844.58	4,889.34	7,171.07	7,071.97	99.10	72.359		
2,500.00	2,293.49	15,243.00	7,668.35	17.51	138.66	154.26	1,844.58	4,889.34	7,071.13	6,971.99	99.14	71.321		
2,600.00	2,369.47	15,243.00	7,668.35	18.86	138.66	154.26	1,844.58	4,889.34	6,971.20	6,872.01	99.19	70.283		
2,700.00	2,445.45	15,243.00	7,668.35	20.22	138.66	154.26	1,844.58	4,889.34	6,871.26	6,772.03	99.23	69.244		
2,800.00	2,521.42	15,243.00	7,668.35	21.59	138.66	154.26	1,844.58	4,889.34	6,771.33	6,672.05	99.28	68.204		
2,900.00	2,597.40	15,243.00	7,668.35	22.97	138.66	154.26	1,844.58	4,889.34	6,671.40	6,572.07	99.33	67.164		
3,000.00	2,673.38	15,243.00	7,668.35	24.34	138.66	154.26	1,844.58	4,889.34	6,571.47	6,472.08	99.38	66.123		
3,100.00	2,749.36	15,243.00	7,668.35	25.73	138.66	154.26	1,844.58	4,889.34	6,471.54	6,372.10	99.44	65.082		
3,200.00	2,825.33	15,243.00	7,668.35	27.11	138.66	154.26	1,844.58	4,889.34	6,371.61	6,272.12	99.49	64.040		
3,300.00	2,901.31	15,243.00	7,668.35	28.50	138.66	154.26	1,844.58	4,889.34	6,271.69	6,172.14	99.55	62.999		
3,400.00	2,977.29	15,243.00	7,668.35	29.90	138.66	154.26	1,844.58	4,889.34	6,171.77	6,072.16	99.61	61.958		
3,500.00	3,053.27	15,243.00	7,668.35	31.29	138.66	154.26	1,844.58	4,889.34	6,071.85	5,972.18	99.68	60.916		
3,600.00	3,129.24	15,243.00	7,668.35	32.69	138.66	154.26	1,844.58	4,889.34	5,971.94	5,872.20	99.74	59.875		
3,700.00	3,205.22	15,243.00	7,668.35	34.08	138.66	154.26	1,844.58	4,889.34	5,872.03	5,772.22	99.81	58.835		
3,800.00	3,281.20	15,243.00	7,668.35	35.48	138.66	154.26	1,844.58	4,889.34	5,772.12	5,672.25	99.87	57.794		
3,900.00	3,357.18	15,243.00	7,668.35	36.88	138.66	154.26	1,844.58	4,889.34	5,672.21	5,572.27	99.94	56.754		
4,000.00	3,433.15	15,243.00	7,668.35	38.29	138.66	154.26	1,844.58	4,889.34	5,572.31	5,472.30	100.01	55.715		
4,100.00	3,509.13	15,243.00	7,668.35	39.69	138.66	154.26	1,844.58	4,889.34	5,472.41	5,372.33	100.09	54.677		
4,200.00	3,585.11	15,243.00	7,668.35	41.09	138.66	154.26	1,844.58	4,889.34	5,372.52	5,272.36	100.16	53.639		
4,300.00	3,661.08	15,243.00	7,668.35	42.50	138.66	154.26	1,844.58	4,889.34	5,272.63	5,172.39	100.24	52.602		
4,400.00	3,737.06	15,243.00	7,668.35	43.90	138.66	154.26	1,844.58	4,889.34	5,172.74	5,072.43	100.31	51.566		
4,500.00	3,813.04	15,243.00	7,668.35	45.31	138.66	154.26	1,844.58	4,889.34	5,072.86	4,972.47	100.39	50.531		
4,600.00	3,889.02	15,243.00	7,668.35	46.71	138.66	154.26	1,844.58	4,889.34	4,972.98	4,872.51	100.47	49.497		
4,700.00	3,964.99	15,243.00	7,668.35	48.12	138.66	154.26	1,844.58	4,889.34	4,873.11	4,772.56	100.55	48.464		
4,800.00	4,040.97	15,243.00	7,668.35	49.53	138.66	154.26	1,844.58	4,889.34	4,773.24	4,672.61	100.63	47.433		
4,900.00	4,116.95	15,243.00	7,668.35	50.94	138.66	154.26	1,844.58	4,889.34	4,673.38	4,572.67	100.71	46.403		
5,000.00	4,192.93	15,243.00	7,668.35	52.35	138.66	154.26	1,844.58	4,889.34	4,573.53	4,472.73	100.80	45.374		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,268.90	15,243.00	7,668.35	53.76	138.66	154.26	1,844.58	4,889.34	4,473.68	4,372.80	100.88	44.347		
5,200.00	4,344.88	15,243.00	7,668.35	55.16	138.66	154.26	1,844.58	4,889.34	4,373.84	4,272.88	100.96	43.322		
5,300.00	4,420.86	15,243.00	7,668.35	56.57	138.66	154.26	1,844.58	4,889.34	4,274.00	4,172.96	101.05	42.298		
5,400.00	4,496.84	15,243.00	7,668.35	57.98	138.66	154.26	1,844.58	4,889.34	4,174.18	4,073.05	101.13	41.275		
5,500.00	4,572.81	15,243.00	7,668.35	59.39	138.66	154.26	1,844.58	4,889.34	4,074.36	3,973.14	101.21	40.255		
5,600.00	4,648.79	15,243.00	7,668.35	60.81	138.66	154.26	1,844.58	4,889.34	3,974.55	3,873.25	101.30	39.236		
5,700.00	4,724.77	15,243.00	7,668.35	62.22	138.66	154.26	1,844.58	4,889.34	3,874.75	3,773.37	101.38	38.219		
5,800.00	4,800.74	15,243.00	7,668.35	63.63	138.66	154.26	1,844.58	4,889.34	3,774.96	3,673.50	101.47	37.204		
5,900.00	4,876.72	15,243.00	7,668.35	65.04	138.66	154.26	1,844.58	4,889.34	3,675.19	3,573.64	101.55	36.191		
6,000.00	4,952.70	15,243.00	7,668.35	66.45	138.66	154.26	1,844.58	4,889.34	3,575.42	3,473.79	101.63	35.180		
6,100.00	5,028.68	15,243.00	7,668.35	67.86	138.66	154.26	1,844.58	4,889.34	3,475.67	3,373.96	101.71	34.171		
6,200.00	5,104.65	15,243.00	7,668.35	69.27	138.66	154.26	1,844.58	4,889.34	3,375.94	3,274.14	101.80	33.164		
6,300.00	5,180.63	15,243.00	7,668.35	70.69	138.66	154.26	1,844.58	4,889.34	3,276.22	3,174.34	101.88	32.159		
6,400.00	5,256.61	15,243.00	7,668.35	72.10	138.66	154.26	1,844.58	4,889.34	3,176.51	3,074.56	101.95	31.157		
6,500.00	5,332.59	15,243.00	7,668.35	73.51	138.66	154.26	1,844.58	4,889.34	3,076.83	2,974.80	102.03	30.156		
6,600.00	5,408.56	15,243.00	7,668.35	74.92	138.66	154.26	1,844.58	4,889.34	2,977.17	2,875.07	102.10	29.159		
6,700.00	5,484.54	15,243.00	7,668.35	76.34	138.66	154.26	1,844.58	4,889.34	2,877.53	2,775.36	102.17	28.163		
6,800.00	5,560.52	15,243.00	7,668.35	77.75	138.66	154.26	1,844.58	4,889.34	2,777.92	2,675.68	102.24	27.170		
6,900.00	5,636.50	15,243.00	7,668.35	79.16	138.66	154.26	1,844.58	4,889.34	2,678.34	2,576.03	102.31	26.179		
7,000.00	5,712.47	15,243.00	7,668.35	80.57	138.66	154.26	1,844.58	4,889.34	2,578.79	2,476.41	102.37	25.190		
7,100.00	5,788.45	15,243.00	7,668.35	81.99	138.66	154.26	1,844.58	4,889.34	2,479.27	2,376.84	102.43	24.205		
7,200.00	5,864.43	15,243.00	7,668.35	83.40	138.66	154.26	1,844.58	4,889.34	2,379.80	2,277.31	102.48	23.221		
7,300.00	5,940.40	15,243.00	7,668.35	84.81	138.66	154.26	1,844.58	4,889.34	2,280.37	2,177.84	102.53	22.240		
7,400.00	6,016.38	15,243.00	7,668.35	86.23	138.66	154.26	1,844.58	4,889.34	2,180.99	2,078.41	102.58	21.262		
7,500.00	6,092.36	15,243.00	7,668.35	87.64	138.66	154.26	1,844.58	4,889.34	2,081.68	1,979.06	102.62	20.286		
7,600.00	6,168.34	15,243.00	7,668.35	89.05	138.66	154.26	1,844.58	4,889.34	1,982.43	1,879.78	102.65	19.312		
7,700.00	6,244.31	15,243.00	7,668.35	90.47	138.66	154.26	1,844.58	4,889.34	1,883.26	1,780.58	102.68	18.341		
7,800.00	6,320.29	15,243.00	7,668.35	91.88	138.66	154.26	1,844.58	4,889.34	1,784.19	1,681.49	102.70	17.373		
7,900.00	6,396.27	15,243.00	7,668.35	93.30	138.66	154.26	1,844.58	4,889.34	1,685.22	1,582.51	102.71	16.407		
8,000.00	6,472.25	15,243.00	7,668.35	94.71	138.66	154.26	1,844.58	4,889.34	1,586.39	1,483.67	102.72	15.444		
8,100.00	6,548.22	15,243.00	7,668.35	96.12	138.66	154.26	1,844.58	4,889.34	1,487.71	1,384.99	102.72	14.483		
8,200.00	6,624.20	15,243.00	7,668.35	97.54	138.66	154.26	1,844.58	4,889.34	1,389.22	1,286.50	102.71	13.525		
8,300.00	6,700.18	15,243.00	7,668.35	98.95	138.66	154.26	1,844.58	4,889.34	1,290.96	1,188.26	102.70	12.570		
8,400.00	6,776.16	15,243.00	7,668.35	100.37	138.66	154.26	1,844.58	4,889.34	1,192.99	1,090.30	102.69	11.618		
8,500.00	6,852.13	15,243.00	7,668.35	101.78	138.66	154.26	1,844.58	4,889.34	1,095.39	992.71	102.67	10.669		
8,600.00	6,928.11	15,243.00	7,668.35	103.20	138.66	154.26	1,844.58	4,889.34	998.26	895.59	102.67	9.723		
8,700.00	7,004.09	15,243.00	7,668.35	104.61	138.66	154.26	1,844.58	4,889.34	901.76	799.09	102.67	8.783		
8,800.00	7,080.06	15,243.00	7,668.35	106.02	138.66	154.26	1,844.58	4,889.34	806.12	703.41	102.71	7.849		
8,900.00	7,156.04	15,229.28	7,668.25	107.44	138.42	156.64	1,858.29	4,889.03	711.54	610.22	101.32	7.023		
9,000.00	7,232.02	15,207.03	7,668.08	108.85	138.03	160.86	1,880.54	4,888.53	617.92	519.24	98.68	6.262		
9,104.68	7,311.55	15,192.27	7,667.90	110.33	137.78	165.82	1,903.83	4,888.00	521.45	425.89	95.56	5.457		
9,150.00	7,346.29	15,176.65	7,667.85	110.97	137.50	171.45	1,910.91	4,887.85	480.08	385.89	94.19	5.097		
9,200.00	7,385.15	15,171.90	7,667.83	111.65	137.42	177.31	1,915.66	4,887.76	434.60	341.88	92.71	4.688		
9,250.00	7,424.29	15,171.06	7,667.83	112.31	137.41	-178.72	1,916.50	4,887.74	389.88	298.34	91.53	4.259		
9,300.00	7,463.40	15,174.26	7,667.84	112.93	137.46	-177.39	1,913.30	4,887.80	346.65	255.48	91.17	3.802		
9,350.00	7,502.19	15,181.61	7,667.88	113.51	137.59	-178.65	1,905.96	4,887.96	305.82	213.23	92.59	3.303		
9,400.00	7,540.36	15,193.45	7,667.97	114.04	137.80	177.78	1,894.12	4,888.22	268.49	171.17	97.32	2.759		
9,450.00	7,577.62	15,209.86	7,668.10	114.53	138.08	172.25	1,877.71	4,888.59	235.99	128.79	107.20	2.201		
9,500.00	7,613.70	15,230.32	7,668.25	114.95	138.44	165.11	1,857.25	4,889.05	209.91	86.67	123.24	1.703		
9,550.00	7,648.30	15,243.00	7,668.35	115.32	138.66	159.50	1,844.58	4,889.34	192.19	46.48	145.71	1.319 Level 3		
9,593.20	7,676.82	15,243.00	7,668.35	115.59	138.66	156.88	1,844.58	4,889.34	186.92	17.91	169.01	1.106 Level 2, CC		
9,600.00	7,681.18	15,243.00	7,668.35	115.63	138.66	156.41	1,844.58	4,889.34	187.05	14.56	172.49	1.084 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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
9,650.00	7,712.08	15,243.00	7,668.35	115.88	138.66	152.41	1,844.58	4,889.34	195.94	2.57	193.37	1.013	Level 2, ES, SF	
9,700.00	7,740.76	15,243.00	7,668.35	116.08	138.66	147.43	1,844.58	4,889.34	217.07	12.85	204.22	1.063	Level 2	
9,750.00	7,767.01	15,243.00	7,668.35	116.23	138.66	141.41	1,844.58	4,889.34	247.20	39.95	207.25	1.193	Level 2	
9,800.00	7,790.63	15,243.00	7,668.35	116.33	138.66	134.29	1,844.58	4,889.34	283.27	77.26	206.01	1.375	Level 3	
9,850.00	7,811.44	15,243.00	7,668.35	116.38	138.66	126.13	1,844.58	4,889.34	323.09	120.19	202.90	1.592		
9,900.00	7,829.28	15,243.00	7,668.35	116.38	138.66	117.18	1,844.58	4,889.34	365.18	166.08	199.10	1.834		
9,950.00	7,844.01	15,243.00	7,668.35	116.35	138.66	107.88	1,844.58	4,889.34	408.57	213.44	195.13	2.094		
10,000.00	7,855.52	15,243.00	7,668.35	116.28	138.66	98.81	1,844.58	4,889.34	452.60	261.42	191.18	2.367		
10,050.00	7,863.72	15,243.00	7,668.35	116.18	138.66	90.49	1,844.58	4,889.34	496.81	309.49	187.33	2.652		
10,100.00	7,868.56	15,243.00	7,668.35	116.06	138.66	83.25	1,844.58	4,889.34	540.87	357.31	183.56	2.947		
10,145.94	7,870.00	15,243.00	7,668.35	115.92	138.66	77.66	1,844.58	4,889.34	580.98	400.81	180.17	3.225		
10,200.00	7,870.00	15,243.00	7,668.35	115.76	138.66	77.66	1,844.58	4,889.34	628.48	452.07	176.42	3.563		
10,300.00	7,870.00	15,243.00	7,668.35	115.46	138.66	77.66	1,844.58	4,889.34	718.80	548.33	170.46	4.217		
10,400.00	7,870.00	15,243.00	7,668.35	115.18	138.66	77.66	1,844.58	4,889.34	811.39	645.73	165.66	4.898		
10,500.00	7,870.00	15,243.00	7,668.35	114.91	138.66	77.66	1,844.58	4,889.34	905.55	743.78	161.78	5.598		
10,600.00	7,870.00	15,243.00	7,668.35	114.65	138.66	77.66	1,844.58	4,889.34	1,000.85	842.22	158.63	6.309		
10,700.00	7,870.00	15,243.00	7,668.35	114.41	138.66	77.66	1,844.58	4,889.34	1,096.99	940.93	156.06	7.029		
10,800.00	7,870.00	15,243.00	7,668.35	114.17	138.66	77.66	1,844.58	4,889.34	1,193.76	1,039.81	153.95	7.754		
10,900.00	7,870.00	15,243.00	7,668.35	113.95	138.66	77.66	1,844.58	4,889.34	1,291.02	1,138.83	152.20	8.483		
11,000.00	7,870.00	15,243.00	7,668.35	113.75	138.66	77.66	1,844.58	4,889.34	1,388.67	1,237.94	150.73	9.213		
11,100.00	7,870.00	15,243.00	7,668.35	113.55	138.66	77.66	1,844.58	4,889.34	1,486.64	1,337.14	149.49	9.944		
11,200.00	7,870.00	15,243.00	7,668.35	113.37	138.66	77.66	1,844.58	4,889.34	1,584.86	1,436.41	148.45	10.676		
11,300.00	7,870.00	15,243.00	7,668.35	113.20	138.66	77.66	1,844.58	4,889.34	1,683.29	1,535.74	147.55	11.408		
11,400.00	7,870.00	15,243.00	7,668.35	113.04	138.66	77.66	1,844.58	4,889.34	1,781.89	1,635.11	146.78	12.140		
11,500.00	7,870.00	15,243.00	7,668.35	112.89	138.66	77.66	1,844.58	4,889.34	1,880.64	1,734.53	146.11	12.871		
11,600.00	7,870.00	15,243.00	7,668.35	112.76	138.66	77.66	1,844.58	4,889.34	1,979.52	1,833.99	145.53	13.602		
11,700.00	7,870.00	15,243.00	7,668.35	112.64	138.66	77.66	1,844.58	4,889.34	2,078.50	1,933.48	145.02	14.332		
11,800.00	7,870.00	15,243.00	7,668.35	112.53	138.66	77.66	1,844.58	4,889.34	2,177.58	2,033.00	144.58	15.062		
11,900.00	7,870.00	15,243.00	7,668.35	112.44	138.66	77.66	1,844.58	4,889.34	2,276.73	2,132.55	144.18	15.791		
12,000.00	7,870.00	15,243.00	7,668.35	112.36	138.66	77.66	1,844.58	4,889.34	2,375.96	2,232.13	143.83	16.519		
12,100.00	7,870.00	15,243.00	7,668.35	112.29	138.66	77.66	1,844.58	4,889.34	2,475.25	2,331.73	143.52	17.247		
12,200.00	7,870.00	15,243.00	7,668.35	112.24	138.66	77.66	1,844.58	4,889.34	2,574.60	2,431.36	143.24	17.974		
12,300.00	7,870.00	15,243.00	7,668.35	112.20	138.66	77.66	1,844.58	4,889.34	2,673.99	2,531.00	142.99	18.701		
12,400.00	7,870.00	15,243.00	7,668.35	112.17	138.66	77.66	1,844.58	4,889.34	2,773.43	2,630.67	142.76	19.427		
12,500.00	7,870.00	15,243.00	7,668.35	112.16	138.66	77.66	1,844.58	4,889.34	2,872.91	2,730.35	142.56	20.153		
12,600.00	7,870.00	15,243.00	7,668.35	112.17	138.66	77.66	1,844.58	4,889.34	2,972.42	2,830.05	142.37	20.878		
12,700.00	7,870.00	15,243.00	7,668.35	112.19	138.66	77.66	1,844.58	4,889.34	3,071.96	2,929.76	142.20	21.602		
12,800.00	7,870.00	15,243.00	7,668.35	112.23	138.66	77.66	1,844.58	4,889.34	3,171.53	3,029.48	142.05	22.327		
12,900.00	7,870.00	15,243.00	7,668.35	112.28	138.66	77.66	1,844.58	4,889.34	3,271.13	3,129.22	141.91	23.051		
13,000.00	7,870.00	15,243.00	7,668.35	112.36	138.66	77.66	1,844.58	4,889.34	3,370.75	3,228.97	141.78	23.774		
13,100.00	7,870.00	15,243.00	7,668.35	112.45	138.66	77.66	1,844.58	4,889.34	3,470.40	3,328.73	141.67	24.497		
13,200.00	7,870.00	15,243.00	7,668.35	112.56	138.66	77.66	1,844.58	4,889.34	3,570.06	3,428.50	141.56	25.220		
13,300.00	7,870.00	15,243.00	7,668.35	112.68	138.66	77.66	1,844.58	4,889.34	3,669.74	3,528.28	141.46	25.942		
13,400.00	7,870.00	15,243.00	7,668.35	112.83	138.66	77.66	1,844.58	4,889.34	3,769.44	3,628.07	141.37	26.664		
13,500.00	7,870.00	15,243.00	7,668.35	113.00	138.66	77.66	1,844.58	4,889.34	3,869.16	3,727.87	141.28	27.386		
13,600.00	7,870.00	15,243.00	7,668.35	113.19	138.66	77.66	1,844.58	4,889.34	3,968.89	3,827.68	141.21	28.107		
13,700.00	7,870.00	15,243.00	7,668.35	113.40	138.66	77.66	1,844.58	4,889.34	4,068.63	3,927.49	141.13	28.828		
13,800.00	7,870.00	15,243.00	7,668.35	113.63	138.66	77.66	1,844.58	4,889.34	4,168.38	4,027.31	141.07	29.549		
13,900.00	7,870.00	15,243.00	7,668.35	113.89	138.66	77.66	1,844.58	4,889.34	4,268.15	4,127.14	141.01	30.269		
14,000.00	7,870.00	15,243.00	7,668.35	114.18	138.66	77.66	1,844.58	4,889.34	4,367.92	4,226.97	140.95	30.989		
14,100.00	7,870.00	15,243.00	7,668.35	114.48	138.66	77.66	1,844.58	4,889.34	4,467.71	4,326.81	140.90	31.709		
14,200.00	7,870.00	15,243.00	7,668.35	114.82	138.66	77.66	1,844.58	4,889.34	4,567.51	4,426.66	140.85	32.429		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
14,300.00	7,870.00	15,243.00	7,668.35	115.18	138.66	77.66	1,844.58	4,889.34	4,667.31	4,526.51	140.80	33.148		
14,400.00	7,870.00	15,243.00	7,668.35	115.57	138.66	77.66	1,844.58	4,889.34	4,767.12	4,626.36	140.76	33.867		
14,500.00	7,870.00	15,243.00	7,668.35	115.99	138.66	77.66	1,844.58	4,889.34	4,866.94	4,726.22	140.72	34.586		
14,600.00	7,870.00	15,243.00	7,668.35	116.44	138.66	77.66	1,844.58	4,889.34	4,966.77	4,826.09	140.68	35.304		
14,700.00	7,870.00	15,243.00	7,668.35	116.92	138.66	77.66	1,844.58	4,889.34	5,066.61	4,925.96	140.65	36.023		
14,800.00	7,870.00	15,243.00	7,668.35	117.44	138.66	77.66	1,844.58	4,889.34	5,166.45	5,025.83	140.62	36.741		
14,900.00	7,870.00	15,243.00	7,668.35	117.98	138.66	77.66	1,844.58	4,889.34	5,266.30	5,125.71	140.59	37.459		
15,000.00	7,870.00	15,243.00	7,668.35	118.56	138.66	77.66	1,844.58	4,889.34	5,366.15	5,225.58	140.56	38.176		
15,100.00	7,870.00	15,243.00	7,668.35	119.17	138.66	77.66	1,844.58	4,889.34	5,466.01	5,325.47	140.54	38.893		
15,200.00	7,870.00	15,243.00	7,668.35	119.81	138.66	77.66	1,844.58	4,889.34	5,565.87	5,425.35	140.52	39.610		
15,300.00	7,870.00	15,243.00	7,668.35	120.48	138.66	77.66	1,844.58	4,889.34	5,665.74	5,525.24	140.49	40.327		
15,400.00	7,870.00	15,243.00	7,668.35	121.19	138.66	77.66	1,844.58	4,889.34	5,765.61	5,625.14	140.47	41.044		
15,500.00	7,870.00	15,243.00	7,668.35	121.93	138.66	77.66	1,844.58	4,889.34	5,865.49	5,725.03	140.46	41.760		
15,600.00	7,870.00	15,243.00	7,668.35	122.71	138.66	77.66	1,844.58	4,889.34	5,965.37	5,824.93	140.44	42.476		
15,700.00	7,870.00	15,243.00	7,668.35	123.52	138.66	77.66	1,844.58	4,889.34	6,065.25	5,924.83	140.43	43.192		
15,800.00	7,870.00	15,243.00	7,668.35	124.36	138.66	77.66	1,844.58	4,889.34	6,165.14	6,024.73	140.41	43.908		
15,900.00	7,870.00	15,243.00	7,668.35	125.23	138.66	77.66	1,844.58	4,889.34	6,265.03	6,124.63	140.40	44.623		
16,000.00	7,870.00	15,243.00	7,668.35	126.14	138.66	77.66	1,844.58	4,889.34	6,364.93	6,224.54	140.39	45.338		
16,100.00	7,870.00	15,243.00	7,668.35	127.07	138.66	77.66	1,844.58	4,889.34	6,464.83	6,324.45	140.38	46.053		
16,200.00	7,870.00	15,243.00	7,668.35	128.04	138.66	77.66	1,844.58	4,889.34	6,564.73	6,424.36	140.37	46.767		
16,300.00	7,870.00	15,243.00	7,668.35	129.04	138.66	77.66	1,844.58	4,889.34	6,664.63	6,524.27	140.36	47.482		
16,400.00	7,870.00	15,243.00	7,668.35	130.06	138.66	77.66	1,844.58	4,889.34	6,764.54	6,624.19	140.36	48.196		
16,500.00	7,870.00	15,243.00	7,668.35	131.11	138.66	77.66	1,844.58	4,889.34	6,864.45	6,724.10	140.35	48.909		
16,600.00	7,870.00	15,243.00	7,668.35	132.19	138.66	77.66	1,844.58	4,889.34	6,964.37	6,824.02	140.35	49.623		
16,700.00	7,870.00	15,243.00	7,668.35	133.29	138.66	77.66	1,844.58	4,889.34	7,064.28	6,923.94	140.34	50.336		
16,800.00	7,870.00	15,243.00	7,668.35	134.42	138.66	77.66	1,844.58	4,889.34	7,164.20	7,023.86	140.34	51.049		
16,900.00	7,870.00	15,243.00	7,668.35	135.57	138.66	77.66	1,844.58	4,889.34	7,264.12	7,123.78	140.34	51.762		
17,000.00	7,870.00	15,243.00	7,668.35	136.75	138.66	77.66	1,844.58	4,889.34	7,364.04	7,223.71	140.34	52.475		
17,100.00	7,870.00	15,243.00	7,668.35	137.94	138.66	77.66	1,844.58	4,889.34	7,463.97	7,323.63	140.33	53.187		
17,200.00	7,870.00	15,243.00	7,668.35	139.16	138.66	77.66	1,844.58	4,889.34	7,563.89	7,423.56	140.34	53.899		
17,300.00	7,870.00	15,243.00	7,668.35	140.39	138.66	77.66	1,844.58	4,889.34	7,663.82	7,523.48	140.34	54.611		
17,400.00	7,870.00	15,243.00	7,668.35	141.65	138.66	77.66	1,844.58	4,889.34	7,763.75	7,623.41	140.34	55.322		
17,500.00	7,870.00	15,243.00	7,668.35	142.92	138.66	77.66	1,844.58	4,889.34	7,863.68	7,723.34	140.34	56.033		
17,600.00	7,870.00	15,243.00	7,668.35	144.21	138.66	77.66	1,844.58	4,889.34	7,963.62	7,823.27	140.34	56.744		
17,700.00	7,870.00	15,243.00	7,668.35	145.52	138.66	77.66	1,844.58	4,889.34	8,063.55	7,923.20	140.35	57.455		
17,800.00	7,870.00	15,243.00	7,668.35	146.84	138.66	77.66	1,844.58	4,889.34	8,163.49	8,023.14	140.35	58.165		
17,900.00	7,870.00	15,243.00	7,668.35	148.18	138.66	77.66	1,844.58	4,889.34	8,263.43	8,123.07	140.36	58.875		
18,000.00	7,870.00	15,243.00	7,668.35	149.54	138.66	77.66	1,844.58	4,889.34	8,363.37	8,223.00	140.36	59.585		
18,100.00	7,870.00	15,243.00	7,668.35	150.90	138.66	77.66	1,844.58	4,889.34	8,463.31	8,322.94	140.37	60.294		
18,200.00	7,870.00	15,243.00	7,668.35	152.28	138.66	77.66	1,844.58	4,889.34	8,563.25	8,422.88	140.37	61.003		
18,300.00	7,870.00	15,243.00	7,668.35	153.67	138.66	77.66	1,844.58	4,889.34	8,663.19	8,522.81	140.38	61.712		
18,400.00	7,870.00	15,243.00	7,668.35	155.07	138.66	77.66	1,844.58	4,889.34	8,763.14	8,622.75	140.39	62.421		
18,500.00	7,870.00	15,243.00	7,668.35	156.49	138.66	77.66	1,844.58	4,889.34	8,863.09	8,722.69	140.40	63.129		
18,600.00	7,870.00	15,243.00	7,668.35	157.91	138.66	77.66	1,844.58	4,889.34	8,963.03	8,822.63	140.41	63.837		
18,700.00	7,870.00	15,243.00	7,668.35	159.35	138.66	77.66	1,844.58	4,889.34	9,062.98	8,922.57	140.41	64.544		
18,800.00	7,870.00	15,243.00	7,668.35	160.79	138.66	77.66	1,844.58	4,889.34	9,162.93	9,022.51	140.42	65.252		
18,900.00	7,870.00	15,243.00	7,668.35	162.25	138.66	77.66	1,844.58	4,889.34	9,262.88	9,122.45	140.43	65.959		
19,000.00	7,870.00	15,243.00	7,668.35	163.71	138.66	77.66	1,844.58	4,889.34	9,362.83	9,222.39	140.45	66.665		
19,100.00	7,870.00	15,243.00	7,668.35	165.18	138.66	77.66	1,844.58	4,889.34	9,462.79	9,322.33	140.46	67.372		
19,200.00	7,870.00	15,243.00	7,668.35	166.66	138.66	77.66	1,844.58	4,889.34	9,562.74	9,422.27	140.47	68.078		
19,300.00	7,870.00	15,243.00	7,668.35	168.15	138.66	77.66	1,844.58	4,889.34	9,662.70	9,522.22	140.48	68.783		
19,400.00	7,870.00	15,243.00	7,668.35	169.65	138.66	77.66	1,844.58	4,889.34	9,762.65	9,622.16	140.49	69.489		

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

Anticollision Report

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

Offset Design		SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 15N-14HZ - OWB - FINAL SURVEY										Offset Site Error:	0.00 usft
Survey Program:		16-MWD OWSG										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,500.00	7,870.00	15,243.00	7,668.35	171.15	138.66	77.66	1,844.58	4,889.34	9,862.61	9,722.10	140.51	70.194	
19,600.00	7,870.00	15,243.00	7,668.35	172.66	138.66	77.66	1,844.58	4,889.34	9,962.57	9,822.05	140.52	70.899	

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 16-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	15,134.00	7,566.57	0.00	139.08	65.38	1,824.04	3,981.07	8,863.82					
100.00	100.00	15,134.00	7,566.57	0.13	139.08	65.38	1,824.04	3,981.07	8,777.02	8,691.71	85.30	102.893		
200.00	200.00	15,134.00	7,566.57	0.49	139.08	65.38	1,824.04	3,981.07	8,690.50	8,604.82	85.67	101.438		
300.00	300.00	15,134.00	7,566.57	0.85	139.08	65.38	1,824.04	3,981.07	8,604.27	8,518.19	86.07	99.965		
400.00	399.98	15,134.00	7,566.57	1.21	139.08	-2.94	1,824.04	3,981.07	8,517.46	8,430.95	86.51	98.460		
500.00	499.84	15,134.00	7,566.57	1.56	139.08	-3.13	1,824.04	3,981.07	8,429.24	8,342.28	86.96	96.935		
600.00	599.45	15,134.00	7,566.57	1.93	139.08	-3.36	1,824.04	3,981.07	8,339.68	8,252.28	87.40	95.419		
700.00	698.70	15,134.00	7,566.57	2.32	139.08	-3.63	1,824.04	3,981.07	8,248.83	8,161.00	87.83	93.915		
800.00	797.47	15,134.00	7,566.57	2.72	139.08	-3.94	1,824.04	3,981.07	8,156.78	8,068.52	88.25	92.427		
900.00	895.62	15,134.00	7,566.57	3.16	139.08	-4.31	1,824.04	3,981.07	8,063.58	7,974.93	88.65	90.957		
1,000.00	993.06	15,134.00	7,566.57	3.63	139.08	-4.75	1,824.04	3,981.07	7,969.33	7,880.30	89.03	89.509		
1,100.00	1,089.64	15,134.00	7,566.57	4.14	139.08	-5.30	1,824.04	3,981.07	7,874.09	7,784.70	89.39	88.084		
1,200.00	1,185.27	15,134.00	7,566.57	4.70	139.08	-5.99	1,824.04	3,981.07	7,777.95	7,688.23	89.73	86.683		
1,300.00	1,279.82	15,134.00	7,566.57	5.31	139.08	-6.88	1,824.04	3,981.07	7,681.00	7,590.96	90.04	85.309		
1,400.00	1,373.17	15,134.00	7,566.57	5.97	139.08	-8.06	1,824.04	3,981.07	7,583.32	7,493.00	90.32	83.962		
1,500.00	1,465.21	15,134.00	7,566.57	6.69	139.08	-9.73	1,824.04	3,981.07	7,485.01	7,394.44	90.57	82.645		
1,600.00	1,555.84	15,134.00	7,566.57	7.47	139.08	-12.22	1,824.04	3,981.07	7,386.16	7,295.37	90.79	81.359		
1,700.00	1,644.94	15,134.00	7,566.57	8.31	139.08	-16.33	1,824.04	3,981.07	7,286.87	7,195.90	90.97	80.104		
1,800.00	1,732.39	15,134.00	7,566.57	9.23	139.08	-24.24	1,824.04	3,981.07	7,187.26	7,096.14	91.11	78.882		
1,900.00	1,818.11	15,134.00	7,566.57	10.21	139.08	-43.83	1,824.04	3,981.07	7,087.42	6,996.20	91.22	77.695		
2,000.00	1,901.97	15,134.00	7,566.57	11.26	139.08	-96.96	1,824.04	3,981.07	6,987.48	6,896.19	91.29	76.543		
2,100.00	1,983.88	15,134.00	7,566.57	12.38	139.08	-141.76	1,824.04	3,981.07	6,887.55	6,796.24	91.31	75.427		
2,200.00	2,063.74	15,134.00	7,566.57	13.57	139.08	-157.36	1,824.04	3,981.07	6,787.77	6,696.47	91.30	74.347		
2,300.00	2,141.45	15,134.00	7,566.57	14.84	139.08	-164.09	1,824.04	3,981.07	6,688.25	6,597.01	91.24	73.305		
2,327.78	2,162.65	15,134.00	7,566.57	15.21	139.08	-165.30	1,824.04	3,981.07	6,660.67	6,569.46	91.21	73.024		
2,400.00	2,217.51	15,134.00	7,566.57	16.17	139.08	-165.30	1,824.04	3,981.07	6,589.02	6,497.88	91.15	72.289		
2,500.00	2,293.49	15,134.00	7,566.57	17.51	139.08	-165.30	1,824.04	3,981.07	6,489.83	6,398.77	91.06	71.270		
2,600.00	2,369.47	15,134.00	7,566.57	18.86	139.08	-165.30	1,824.04	3,981.07	6,390.67	6,299.70	90.97	70.248		
2,700.00	2,445.45	15,134.00	7,566.57	20.22	139.08	-165.30	1,824.04	3,981.07	6,291.54	6,200.65	90.89	69.223		
2,800.00	2,521.42	15,134.00	7,566.57	21.59	139.08	-165.30	1,824.04	3,981.07	6,192.43	6,101.62	90.80	68.196		
2,900.00	2,597.40	15,134.00	7,566.57	22.97	139.08	-165.30	1,824.04	3,981.07	6,093.35	6,002.63	90.72	67.168		
3,000.00	2,673.38	15,134.00	7,566.57	24.34	139.08	-165.30	1,824.04	3,981.07	5,994.30	5,903.66	90.63	66.137		
3,100.00	2,749.36	15,134.00	7,566.57	25.73	139.08	-165.30	1,824.04	3,981.07	5,895.28	5,804.73	90.55	65.105		
3,200.00	2,825.33	15,134.00	7,566.57	27.11	139.08	-165.30	1,824.04	3,981.07	5,796.30	5,705.83	90.47	64.071		
3,300.00	2,901.31	15,134.00	7,566.57	28.50	139.08	-165.30	1,824.04	3,981.07	5,697.35	5,606.97	90.38	63.035		
3,400.00	2,977.29	15,134.00	7,566.57	29.90	139.08	-165.30	1,824.04	3,981.07	5,598.44	5,508.14	90.30	61.999		
3,500.00	3,053.27	15,134.00	7,566.57	31.29	139.08	-165.30	1,824.04	3,981.07	5,499.57	5,409.35	90.21	60.961		
3,600.00	3,129.24	15,134.00	7,566.57	32.69	139.08	-165.30	1,824.04	3,981.07	5,400.74	5,310.61	90.13	59.922		
3,700.00	3,205.22	15,134.00	7,566.57	34.08	139.08	-165.30	1,824.04	3,981.07	5,301.95	5,211.91	90.04	58.883		
3,800.00	3,281.20	15,134.00	7,566.57	35.48	139.08	-165.30	1,824.04	3,981.07	5,203.21	5,113.26	89.95	57.843		
3,900.00	3,357.18	15,134.00	7,566.57	36.88	139.08	-165.30	1,824.04	3,981.07	5,104.52	5,014.66	89.87	56.802		
4,000.00	3,433.15	15,134.00	7,566.57	38.29	139.08	-165.30	1,824.04	3,981.07	5,005.89	4,916.11	89.77	55.761		
4,100.00	3,509.13	15,134.00	7,566.57	39.69	139.08	-165.30	1,824.04	3,981.07	4,907.30	4,817.62	89.68	54.720		
4,200.00	3,585.11	15,134.00	7,566.57	41.09	139.08	-165.30	1,824.04	3,981.07	4,808.78	4,719.19	89.59	53.678		
4,300.00	3,661.08	15,134.00	7,566.57	42.50	139.08	-165.30	1,824.04	3,981.07	4,710.32	4,620.83	89.49	52.637		
4,400.00	3,737.06	15,134.00	7,566.57	43.90	139.08	-165.30	1,824.04	3,981.07	4,611.92	4,522.54	89.39	51.596		
4,500.00	3,813.04	15,134.00	7,566.57	45.31	139.08	-165.30	1,824.04	3,981.07	4,513.60	4,424.31	89.28	50.555		
4,600.00	3,889.02	15,134.00	7,566.57	46.71	139.08	-165.30	1,824.04	3,981.07	4,415.35	4,326.17	89.17	49.514		
4,700.00	3,964.99	15,134.00	7,566.57	48.12	139.08	-165.30	1,824.04	3,981.07	4,317.18	4,228.11	89.06	48.474		
4,800.00	4,040.97	15,134.00	7,566.57	49.53	139.08	-165.30	1,824.04	3,981.07	4,219.09	4,130.15	88.95	47.435		
4,900.00	4,116.95	15,134.00	7,566.57	50.94	139.08	-165.30	1,824.04	3,981.07	4,121.10	4,032.28	88.82	46.396		
5,000.00	4,192.93	15,134.00	7,566.57	52.35	139.08	-165.30	1,824.04	3,981.07	4,023.21	3,934.51	88.70	45.358		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,268.90	15,134.00	7,566.57	53.76	139.08	-165.30	1,824.04	3,981.07	3,925.42	3,836.85	88.57	44.321		
5,200.00	4,344.88	15,134.00	7,566.57	55.16	139.08	-165.30	1,824.04	3,981.07	3,827.75	3,739.32	88.43	43.285		
5,300.00	4,420.86	15,134.00	7,566.57	56.57	139.08	-165.30	1,824.04	3,981.07	3,730.20	3,641.91	88.29	42.249		
5,400.00	4,496.84	15,134.00	7,566.57	57.98	139.08	-165.30	1,824.04	3,981.07	3,632.78	3,544.64	88.14	41.215		
5,500.00	4,572.81	15,134.00	7,566.57	59.39	139.08	-165.30	1,824.04	3,981.07	3,535.51	3,447.52	87.99	40.182		
5,600.00	4,648.79	15,134.00	7,566.57	60.81	139.08	-165.30	1,824.04	3,981.07	3,438.40	3,350.57	87.83	39.150		
5,700.00	4,724.77	15,134.00	7,566.57	62.22	139.08	-165.30	1,824.04	3,981.07	3,341.45	3,253.79	87.66	38.119		
5,800.00	4,800.74	15,134.00	7,566.57	63.63	139.08	-165.30	1,824.04	3,981.07	3,244.69	3,157.21	87.48	37.089		
5,900.00	4,876.72	15,134.00	7,566.57	65.04	139.08	-165.30	1,824.04	3,981.07	3,148.14	3,060.83	87.30	36.060		
6,000.00	4,952.70	15,134.00	7,566.57	66.45	139.08	-165.30	1,824.04	3,981.07	3,051.80	2,964.69	87.11	35.032		
6,100.00	5,028.68	15,134.00	7,566.57	67.86	139.08	-165.30	1,824.04	3,981.07	2,955.71	2,868.79	86.92	34.005		
6,200.00	5,104.65	15,134.00	7,566.57	69.27	139.08	-165.30	1,824.04	3,981.07	2,859.89	2,773.17	86.72	32.979		
6,300.00	5,180.63	15,134.00	7,566.57	70.69	139.08	-165.30	1,824.04	3,981.07	2,764.36	2,677.85	86.51	31.953		
6,400.00	5,256.61	15,134.00	7,566.57	72.10	139.08	-165.30	1,824.04	3,981.07	2,669.16	2,582.86	86.30	30.928		
6,500.00	5,332.59	15,134.00	7,566.57	73.51	139.08	-165.30	1,824.04	3,981.07	2,574.32	2,488.23	86.09	29.903		
6,600.00	5,408.56	15,134.00	7,566.57	74.92	139.08	-165.30	1,824.04	3,981.07	2,479.89	2,394.02	85.88	28.877		
6,700.00	5,484.54	15,134.00	7,566.57	76.34	139.08	-165.30	1,824.04	3,981.07	2,385.92	2,300.25	85.67	27.851		
6,800.00	5,560.52	15,134.00	7,566.57	77.75	139.08	-165.30	1,824.04	3,981.07	2,292.45	2,206.98	85.47	26.822		
6,900.00	5,636.50	15,134.00	7,566.57	79.16	139.08	-165.30	1,824.04	3,981.07	2,199.56	2,114.27	85.28	25.791		
7,000.00	5,712.47	15,134.00	7,566.57	80.57	139.08	-165.30	1,824.04	3,981.07	2,107.32	2,022.19	85.12	24.756		
7,100.00	5,788.45	15,134.00	7,566.57	81.99	139.08	-165.30	1,824.04	3,981.07	2,015.82	1,930.81	85.00	23.715		
7,200.00	5,864.43	15,134.00	7,566.57	83.40	139.08	-165.30	1,824.04	3,981.07	1,925.16	1,840.23	84.94	22.666		
7,300.00	5,940.40	15,134.00	7,566.57	84.81	139.08	-165.30	1,824.04	3,981.07	1,835.48	1,750.53	84.95	21.607		
7,400.00	6,016.38	15,134.00	7,566.57	86.23	139.08	-165.30	1,824.04	3,981.07	1,746.91	1,661.84	85.07	20.534		
7,500.00	6,092.36	15,134.00	7,566.57	87.64	139.08	-165.30	1,824.04	3,981.07	1,659.65	1,574.29	85.36	19.444		
7,600.00	6,168.34	15,134.00	7,566.57	89.05	139.08	-165.30	1,824.04	3,981.07	1,573.90	1,488.04	85.86	18.331		
7,700.00	6,244.31	15,134.00	7,566.57	90.47	139.08	-165.30	1,824.04	3,981.07	1,489.93	1,403.26	86.67	17.191		
7,800.00	6,320.29	15,134.00	7,566.57	91.88	139.08	-165.30	1,824.04	3,981.07	1,408.06	1,320.16	87.89	16.020		
7,900.00	6,396.27	15,134.00	7,566.57	93.30	139.08	-165.30	1,824.04	3,981.07	1,328.67	1,238.99	89.68	14.816		
8,000.00	6,472.25	15,134.00	7,566.57	94.71	139.08	-165.30	1,824.04	3,981.07	1,252.23	1,160.03	92.20	13.582		
8,100.00	6,548.22	15,134.00	7,566.57	96.12	139.08	-165.30	1,824.04	3,981.07	1,179.33	1,083.67	95.66	12.328		
8,200.00	6,624.20	15,134.00	7,566.57	97.54	139.08	-165.30	1,824.04	3,981.07	1,110.65	1,010.38	100.27	11.076		
8,300.00	6,700.18	15,134.00	7,566.57	98.95	139.08	-165.30	1,824.04	3,981.07	1,047.03	940.82	106.21	9.858		
8,400.00	6,776.16	15,134.00	7,566.57	100.37	139.08	-165.30	1,824.04	3,981.07	989.45	875.88	113.57	8.712		
8,500.00	6,852.13	15,134.00	7,566.57	101.78	139.08	-165.30	1,824.04	3,981.07	939.01	816.73	122.28	7.679		
8,600.00	6,928.11	15,134.00	7,566.57	103.20	139.08	-165.30	1,824.04	3,981.07	896.92	764.83	132.09	6.790		
8,700.00	7,004.09	15,134.00	7,566.57	104.61	139.08	-165.30	1,824.04	3,981.07	864.40	721.88	142.52	6.065		
8,800.00	7,080.06	15,130.12	7,566.49	106.02	139.01	-165.04	1,827.91	3,981.01	842.56	689.48	153.08	5.504		
8,900.00	7,156.04	15,108.54	7,566.01	107.44	138.64	-163.59	1,849.49	3,980.68	831.87	668.12	163.75	5.080		
8,943.89	7,189.39	15,099.07	7,565.80	108.06	138.47	-162.95	1,858.96	3,980.54	830.76	662.69	168.08	4.943 CC		
9,000.00	7,232.02	15,086.96	7,565.53	108.85	138.26	-162.13	1,871.06	3,980.35	832.57	659.39	173.18	4.808 ES		
9,104.68	7,311.55	15,064.19	7,565.04	110.33	137.86	-160.60	1,893.82	3,980.01	845.47	664.29	181.17	4.667		
9,150.00	7,346.29	15,055.91	7,564.87	110.97	137.72	-166.24	1,902.10	3,979.89	854.86	670.86	184.00	4.646 SF		
9,200.00	7,385.15	15,050.89	7,564.77	111.65	137.63	-173.35	1,907.12	3,979.83	867.93	681.27	186.67	4.650		
9,250.00	7,424.29	15,050.31	7,564.76	112.31	137.62	-178.75	1,907.70	3,979.82	883.69	694.85	188.85	4.679		
9,300.00	7,463.40	15,054.26	7,564.84	112.93	137.69	-170.27	1,903.75	3,979.87	901.89	711.36	190.53	4.734		
9,350.00	7,502.19	15,062.81	7,565.01	113.51	137.84	-161.42	1,895.20	3,979.99	922.19	730.44	191.75	4.809		
9,400.00	7,540.36	15,075.99	7,565.29	114.04	138.07	-152.44	1,882.03	3,980.18	944.19	751.65	192.54	4.904		
9,450.00	7,577.62	15,092.83	7,565.66	114.53	138.36	-143.59	1,865.19	3,980.44	967.45	774.42	193.02	5.012		
9,500.00	7,613.70	15,113.61	7,566.12	114.95	138.72	-135.04	1,844.42	3,980.76	991.49	798.26	193.24	5.131		
9,550.00	7,648.30	15,138.28	7,566.67	115.32	139.15	-126.93	1,819.76	3,981.14	1,015.86	822.61	193.25	5.257		
9,600.00	7,681.18	15,134.00	7,566.57	115.63	139.08	-120.90	1,824.04	3,981.07	1,040.59	845.79	194.80	5.342		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 16-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,650.00	7,712.08	15,134.00	7,566.57	115.88	139.08	115.16	1,824.04	3,981.07	1,065.64	869.54	196.09	5.434		
9,700.00	7,740.76	15,134.00	7,566.57	116.08	139.08	109.90	1,824.04	3,981.07	1,090.81	893.44	197.37	5.527		
9,750.00	7,767.01	15,134.00	7,566.57	116.23	139.08	105.11	1,824.04	3,981.07	1,115.92	917.30	198.62	5.618		
9,800.00	7,790.63	15,134.00	7,566.57	116.33	139.08	100.79	1,824.04	3,981.07	1,140.77	940.93	199.85	5.708		
9,850.00	7,811.44	15,134.00	7,566.57	116.38	139.08	96.91	1,824.04	3,981.07	1,165.21	964.18	201.04	5.796		
9,900.00	7,829.28	15,134.00	7,566.57	116.38	139.08	93.46	1,824.04	3,981.07	1,189.08	986.90	202.18	5.881		
9,950.00	7,844.01	15,134.00	7,566.57	116.35	139.08	90.41	1,824.04	3,981.07	1,212.24	1,008.97	203.27	5.964		
10,000.00	7,855.52	15,134.00	7,566.57	116.28	139.08	87.77	1,824.04	3,981.07	1,234.55	1,030.27	204.28	6.043		
10,050.00	7,863.72	15,134.00	7,566.57	116.18	139.08	85.50	1,824.04	3,981.07	1,255.90	1,050.68	205.22	6.120		
10,100.00	7,868.56	15,134.00	7,566.57	116.06	139.08	83.60	1,824.04	3,981.07	1,276.17	1,070.12	206.05	6.193		
10,145.94	7,870.00	15,134.00	7,566.57	115.92	139.08	82.18	1,824.04	3,981.07	1,293.76	1,087.04	206.72	6.258		
10,200.00	7,870.00	15,134.00	7,566.57	115.76	139.08	82.18	1,824.04	3,981.07	1,314.81	1,107.48	207.33	6.342		
10,300.00	7,870.00	15,134.00	7,566.57	115.46	139.08	82.18	1,824.04	3,981.07	1,358.56	1,150.76	207.80	6.538		
10,400.00	7,870.00	15,134.00	7,566.57	115.18	139.08	82.18	1,824.04	3,981.07	1,408.06	1,200.51	207.55	6.784		
10,500.00	7,870.00	15,134.00	7,566.57	114.91	139.08	82.18	1,824.04	3,981.07	1,462.73	1,256.03	206.70	7.077		
10,600.00	7,870.00	15,134.00	7,566.57	114.65	139.08	82.18	1,824.04	3,981.07	1,522.02	1,316.63	205.40	7.410		
10,700.00	7,870.00	15,134.00	7,566.57	114.41	139.08	82.18	1,824.04	3,981.07	1,585.41	1,381.66	203.74	7.781		
10,800.00	7,870.00	15,134.00	7,566.57	114.17	139.08	82.18	1,824.04	3,981.07	1,652.41	1,450.57	201.85	8.187		
10,900.00	7,870.00	15,134.00	7,566.57	113.95	139.08	82.18	1,824.04	3,981.07	1,722.62	1,522.84	199.79	8.622		
11,000.00	7,870.00	15,134.00	7,566.57	113.75	139.08	82.18	1,824.04	3,981.07	1,795.66	1,598.03	197.63	9.086		
11,100.00	7,870.00	15,134.00	7,566.57	113.55	139.08	82.18	1,824.04	3,981.07	1,871.19	1,675.77	195.42	9.575		
11,200.00	7,870.00	15,134.00	7,566.57	113.37	139.08	82.18	1,824.04	3,981.07	1,948.92	1,755.71	193.21	10.087		
11,300.00	7,870.00	15,134.00	7,566.57	113.20	139.08	82.18	1,824.04	3,981.07	2,028.61	1,837.59	191.02	10.620		
11,400.00	7,870.00	15,134.00	7,566.57	113.04	139.08	82.18	1,824.04	3,981.07	2,110.03	1,921.16	188.87	11.172		
11,500.00	7,870.00	15,134.00	7,566.57	112.89	139.08	82.18	1,824.04	3,981.07	2,192.99	2,006.20	186.78	11.741		
11,600.00	7,870.00	15,134.00	7,566.57	112.76	139.08	82.18	1,824.04	3,981.07	2,277.31	2,092.55	184.76	12.326		
11,700.00	7,870.00	15,134.00	7,566.57	112.64	139.08	82.18	1,824.04	3,981.07	2,362.86	2,180.05	182.81	12.925		
11,800.00	7,870.00	15,134.00	7,566.57	112.53	139.08	82.18	1,824.04	3,981.07	2,449.50	2,268.56	180.94	13.538		
11,900.00	7,870.00	15,134.00	7,566.57	112.44	139.08	82.18	1,824.04	3,981.07	2,537.13	2,357.98	179.15	14.162		
12,000.00	7,870.00	15,134.00	7,566.57	112.36	139.08	82.18	1,824.04	3,981.07	2,625.64	2,448.21	177.43	14.798		
12,100.00	7,870.00	15,134.00	7,566.57	112.29	139.08	82.18	1,824.04	3,981.07	2,714.95	2,539.15	175.80	15.444		
12,200.00	7,870.00	15,134.00	7,566.57	112.24	139.08	82.18	1,824.04	3,981.07	2,804.98	2,630.74	174.24	16.099		
12,300.00	7,870.00	15,134.00	7,566.57	112.20	139.08	82.18	1,824.04	3,981.07	2,895.66	2,722.91	172.75	16.762		
12,400.00	7,870.00	15,134.00	7,566.57	112.17	139.08	82.18	1,824.04	3,981.07	2,986.94	2,815.61	171.33	17.434		
12,500.00	7,870.00	15,134.00	7,566.57	112.16	139.08	82.18	1,824.04	3,981.07	3,078.76	2,908.78	169.98	18.112		
12,600.00	7,870.00	15,134.00	7,566.57	112.17	139.08	82.18	1,824.04	3,981.07	3,171.08	3,002.38	168.70	18.797		
12,700.00	7,870.00	15,134.00	7,566.57	112.19	139.08	82.18	1,824.04	3,981.07	3,263.85	3,096.38	167.47	19.489		
12,800.00	7,870.00	15,134.00	7,566.57	112.23	139.08	82.18	1,824.04	3,981.07	3,357.03	3,190.73	166.31	20.186		
12,900.00	7,870.00	15,134.00	7,566.57	112.28	139.08	82.18	1,824.04	3,981.07	3,450.60	3,285.40	165.19	20.888		
13,000.00	7,870.00	15,134.00	7,566.57	112.36	139.08	82.18	1,824.04	3,981.07	3,544.51	3,380.38	164.13	21.595		
13,100.00	7,870.00	15,134.00	7,566.57	112.45	139.08	82.18	1,824.04	3,981.07	3,638.76	3,475.63	163.12	22.307		
13,200.00	7,870.00	15,134.00	7,566.57	112.56	139.08	82.18	1,824.04	3,981.07	3,733.30	3,571.14	162.16	23.022		
13,300.00	7,870.00	15,134.00	7,566.57	112.68	139.08	82.18	1,824.04	3,981.07	3,828.11	3,666.87	161.24	23.742		
13,400.00	7,870.00	15,134.00	7,566.57	112.83	139.08	82.18	1,824.04	3,981.07	3,923.19	3,762.83	160.36	24.465		
13,500.00	7,870.00	15,134.00	7,566.57	113.00	139.08	82.18	1,824.04	3,981.07	4,018.50	3,858.98	159.52	25.191		
13,600.00	7,870.00	15,134.00	7,566.57	113.19	139.08	82.18	1,824.04	3,981.07	4,114.04	3,955.32	158.72	25.920		
13,700.00	7,870.00	15,134.00	7,566.57	113.40	139.08	82.18	1,824.04	3,981.07	4,209.79	4,051.83	157.96	26.651		
13,800.00	7,870.00	15,134.00	7,566.57	113.63	139.08	82.18	1,824.04	3,981.07	4,305.72	4,148.50	157.22	27.386		
13,900.00	7,870.00	15,134.00	7,566.57	113.89	139.08	82.18	1,824.04	3,981.07	4,401.84	4,245.32	156.52	28.123		
14,000.00	7,870.00	15,134.00	7,566.57	114.18	139.08	82.18	1,824.04	3,981.07	4,498.13	4,342.28	155.85	28.862		
14,100.00	7,870.00	15,134.00	7,566.57	114.48	139.08	82.18	1,824.04	3,981.07	4,594.58	4,439.37	155.21	29.602		
14,200.00	7,870.00	15,134.00	7,566.57	114.82	139.08	82.18	1,824.04	3,981.07	4,691.17	4,536.58	154.59	30.345		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
14,300.00	7,870.00	15,134.00	7,566.57	115.18	139.08	82.18	1,824.04	3,981.07	4,787.91	4,633.90	154.00	31.090		
14,400.00	7,870.00	15,134.00	7,566.57	115.57	139.08	82.18	1,824.04	3,981.07	4,884.77	4,731.34	153.44	31.836		
14,500.00	7,870.00	15,134.00	7,566.57	115.99	139.08	82.18	1,824.04	3,981.07	4,981.76	4,828.87	152.89	32.583		
14,600.00	7,870.00	15,134.00	7,566.57	116.44	139.08	82.18	1,824.04	3,981.07	5,078.87	4,926.50	152.37	33.332		
14,700.00	7,870.00	15,134.00	7,566.57	116.92	139.08	82.18	1,824.04	3,981.07	5,176.09	5,024.22	151.87	34.083		
14,800.00	7,870.00	15,134.00	7,566.57	117.44	139.08	82.18	1,824.04	3,981.07	5,273.41	5,122.02	151.39	34.834		
14,900.00	7,870.00	15,134.00	7,566.57	117.98	139.08	82.18	1,824.04	3,981.07	5,370.83	5,219.91	150.92	35.586		
15,000.00	7,870.00	15,134.00	7,566.57	118.56	139.08	82.18	1,824.04	3,981.07	5,468.34	5,317.86	150.48	36.340		
15,100.00	7,870.00	15,134.00	7,566.57	119.17	139.08	82.18	1,824.04	3,981.07	5,565.94	5,415.89	150.05	37.094		
15,200.00	7,870.00	15,134.00	7,566.57	119.81	139.08	82.18	1,824.04	3,981.07	5,663.63	5,513.99	149.64	37.849		
15,300.00	7,870.00	15,134.00	7,566.57	120.48	139.08	82.18	1,824.04	3,981.07	5,761.39	5,612.15	149.24	38.605		
15,400.00	7,870.00	15,134.00	7,566.57	121.19	139.08	82.18	1,824.04	3,981.07	5,859.23	5,710.38	148.86	39.361		
15,500.00	7,870.00	15,134.00	7,566.57	121.93	139.08	82.18	1,824.04	3,981.07	5,957.14	5,808.66	148.49	40.118		
15,600.00	7,870.00	15,134.00	7,566.57	122.71	139.08	82.18	1,824.04	3,981.07	6,055.12	5,906.99	148.13	40.876		
15,700.00	7,870.00	15,134.00	7,566.57	123.52	139.08	82.18	1,824.04	3,981.07	6,153.17	6,005.38	147.79	41.634		
15,800.00	7,870.00	15,134.00	7,566.57	124.36	139.08	82.18	1,824.04	3,981.07	6,251.28	6,103.82	147.46	42.393		
15,900.00	7,870.00	15,134.00	7,566.57	125.23	139.08	82.18	1,824.04	3,981.07	6,349.44	6,202.30	147.14	43.152		
16,000.00	7,870.00	15,134.00	7,566.57	126.14	139.08	82.18	1,824.04	3,981.07	6,447.66	6,300.83	146.83	43.912		
16,100.00	7,870.00	15,134.00	7,566.57	127.07	139.08	82.18	1,824.04	3,981.07	6,545.94	6,399.40	146.54	44.671		
16,200.00	7,870.00	15,134.00	7,566.57	128.04	139.08	82.18	1,824.04	3,981.07	6,644.27	6,498.02	146.25	45.431		
16,300.00	7,870.00	15,134.00	7,566.57	129.04	139.08	82.18	1,824.04	3,981.07	6,742.64	6,596.67	145.97	46.192		
16,400.00	7,870.00	15,134.00	7,566.57	130.06	139.08	82.18	1,824.04	3,981.07	6,841.07	6,695.36	145.70	46.952		
16,500.00	7,870.00	15,134.00	7,566.57	131.11	139.08	82.18	1,824.04	3,981.07	6,939.54	6,794.09	145.44	47.713		
16,600.00	7,870.00	15,134.00	7,566.57	132.19	139.08	82.18	1,824.04	3,981.07	7,038.05	6,892.86	145.19	48.474		
16,700.00	7,870.00	15,134.00	7,566.57	133.29	139.08	82.18	1,824.04	3,981.07	7,136.60	6,991.65	144.95	49.235		
16,800.00	7,870.00	15,134.00	7,566.57	134.42	139.08	82.18	1,824.04	3,981.07	7,235.19	7,090.48	144.72	49.996		
16,900.00	7,870.00	15,134.00	7,566.57	135.57	139.08	82.18	1,824.04	3,981.07	7,333.83	7,189.34	144.49	50.757		
17,000.00	7,870.00	15,134.00	7,566.57	136.75	139.08	82.18	1,824.04	3,981.07	7,432.49	7,288.22	144.27	51.518		
17,100.00	7,870.00	15,134.00	7,566.57	137.94	139.08	82.18	1,824.04	3,981.07	7,531.20	7,387.14	144.06	52.279		
17,200.00	7,870.00	15,134.00	7,566.57	139.16	139.08	82.18	1,824.04	3,981.07	7,629.93	7,486.08	143.85	53.040		
17,300.00	7,870.00	15,134.00	7,566.57	140.39	139.08	82.18	1,824.04	3,981.07	7,728.70	7,585.05	143.65	53.802		
17,400.00	7,870.00	15,134.00	7,566.57	141.65	139.08	82.18	1,824.04	3,981.07	7,827.50	7,684.04	143.46	54.563		
17,500.00	7,870.00	15,134.00	7,566.57	142.92	139.08	82.18	1,824.04	3,981.07	7,926.33	7,783.06	143.27	55.324		
17,600.00	7,870.00	15,134.00	7,566.57	144.21	139.08	82.18	1,824.04	3,981.07	8,025.19	7,882.10	143.09	56.085		
17,700.00	7,870.00	15,134.00	7,566.57	145.52	139.08	82.18	1,824.04	3,981.07	8,124.08	7,981.17	142.92	56.845		
17,800.00	7,870.00	15,134.00	7,566.57	146.84	139.08	82.18	1,824.04	3,981.07	8,222.99	8,080.25	142.75	57.606		
17,900.00	7,870.00	15,134.00	7,566.57	148.18	139.08	82.18	1,824.04	3,981.07	8,321.93	8,179.35	142.58	58.367		
18,000.00	7,870.00	15,134.00	7,566.57	149.54	139.08	82.18	1,824.04	3,981.07	8,420.90	8,278.48	142.42	59.127		
18,100.00	7,870.00	15,134.00	7,566.57	150.90	139.08	82.18	1,824.04	3,981.07	8,519.89	8,377.62	142.27	59.887		
18,200.00	7,870.00	15,134.00	7,566.57	152.28	139.08	82.18	1,824.04	3,981.07	8,618.90	8,476.79	142.11	60.647		
18,300.00	7,870.00	15,134.00	7,566.57	153.67	139.08	82.18	1,824.04	3,981.07	8,717.94	8,575.97	141.97	61.407		
18,400.00	7,870.00	15,134.00	7,566.57	155.07	139.08	82.18	1,824.04	3,981.07	8,816.99	8,675.17	141.83	62.167		
18,500.00	7,870.00	15,134.00	7,566.57	156.49	139.08	82.18	1,824.04	3,981.07	8,916.07	8,774.38	141.69	62.926		
18,600.00	7,870.00	15,134.00	7,566.57	157.91	139.08	82.18	1,824.04	3,981.07	9,015.17	8,873.61	141.56	63.686		
18,700.00	7,870.00	15,134.00	7,566.57	159.35	139.08	82.18	1,824.04	3,981.07	9,114.29	8,972.86	141.43	64.445		
18,800.00	7,870.00	15,134.00	7,566.57	160.79	139.08	82.18	1,824.04	3,981.07	9,213.43	9,072.12	141.30	65.203		
18,900.00	7,870.00	15,134.00	7,566.57	162.25	139.08	82.18	1,824.04	3,981.07	9,312.58	9,171.40	141.18	65.962		
19,000.00	7,870.00	15,134.00	7,566.57	163.71	139.08	82.18	1,824.04	3,981.07	9,411.76	9,270.69	141.06	66.720		
19,100.00	7,870.00	15,134.00	7,566.57	165.18	139.08	82.18	1,824.04	3,981.07	9,510.95	9,370.00	140.95	67.478		
19,200.00	7,870.00	15,134.00	7,566.57	166.66	139.08	82.18	1,824.04	3,981.07	9,610.15	9,469.32	140.84	68.235		
19,300.00	7,870.00	15,134.00	7,566.57	168.15	139.08	82.18	1,824.04	3,981.07	9,709.38	9,568.65	140.73	68.993		
19,400.00	7,870.00	15,134.00	7,566.57	169.65	139.08	82.18	1,824.04	3,981.07	9,808.62	9,667.99	140.63	69.750		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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
19,500.00	7,870.00	15,134.00	7,566.57	171.15	139.08	82.18	1,824.04	3,981.07	9,907.87	9,767.35	140.52	70.506	

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 37C-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 16-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	15,352.00	7,829.29	0.00	138.31	71.23	1,855.89	5,459.89	9,823.12					
100.00	100.00	15,352.00	7,829.29	0.13	138.31	71.23	1,855.89	5,459.89	9,742.34	9,648.38	93.97	103.680		
200.00	200.00	15,352.00	7,829.29	0.49	138.31	71.23	1,855.89	5,459.89	9,661.92	9,567.52	94.41	102.343		
300.00	300.00	15,352.00	7,829.29	0.85	138.31	71.23	1,855.89	5,459.89	9,581.87	9,486.99	94.88	100.986		
400.00	399.98	15,352.00	7,829.29	1.21	138.31	3.23	1,855.89	5,459.89	9,501.16	9,405.76	95.40	99.588		
500.00	499.84	15,352.00	7,829.29	1.56	138.31	3.40	1,855.89	5,459.89	9,418.78	9,322.83	95.95	98.163		
600.00	599.45	15,352.00	7,829.29	1.93	138.31	3.59	1,855.89	5,459.89	9,334.80	9,238.30	96.50	96.738		
700.00	698.70	15,352.00	7,829.29	2.32	138.31	3.80	1,855.89	5,459.89	9,249.27	9,152.24	97.03	95.320		
800.00	797.47	15,352.00	7,829.29	2.72	138.31	4.04	1,855.89	5,459.89	9,162.26	9,064.69	97.56	93.912		
900.00	895.62	15,352.00	7,829.29	3.16	138.31	4.32	1,855.89	5,459.89	9,073.82	8,975.74	98.08	92.516		
1,000.00	993.06	15,352.00	7,829.29	3.63	138.31	4.64	1,855.89	5,459.89	8,984.04	8,885.46	98.58	91.135		
1,100.00	1,089.64	15,352.00	7,829.29	4.14	138.31	5.01	1,855.89	5,459.89	8,892.97	8,793.91	99.06	89.770		
1,200.00	1,185.27	15,352.00	7,829.29	4.70	138.31	5.44	1,855.89	5,459.89	8,800.69	8,701.16	99.53	88.423		
1,300.00	1,279.82	15,352.00	7,829.29	5.31	138.31	5.96	1,855.89	5,459.89	8,707.28	8,607.31	99.97	87.096		
1,400.00	1,373.17	15,352.00	7,829.29	5.97	138.31	6.59	1,855.89	5,459.89	8,612.82	8,512.42	100.40	85.789		
1,500.00	1,465.21	15,352.00	7,829.29	6.69	138.31	7.37	1,855.89	5,459.89	8,517.38	8,416.59	100.79	84.504		
1,600.00	1,555.84	15,352.00	7,829.29	7.47	138.31	8.35	1,855.89	5,459.89	8,421.06	8,319.90	101.16	83.241		
1,700.00	1,644.94	15,352.00	7,829.29	8.31	138.31	9.63	1,855.89	5,459.89	8,323.94	8,222.43	101.51	82.003		
1,800.00	1,732.39	15,352.00	7,829.29	9.23	138.31	11.35	1,855.89	5,459.89	8,226.11	8,124.29	101.82	80.790		
1,900.00	1,818.11	15,352.00	7,829.29	10.21	138.31	13.78	1,855.89	5,459.89	8,127.67	8,025.57	102.10	79.602		
2,000.00	1,901.97	15,352.00	7,829.29	11.26	138.31	17.47	1,855.89	5,459.89	8,028.73	7,926.37	102.35	78.442		
2,100.00	1,983.88	15,352.00	7,829.29	12.38	138.31	23.65	1,855.89	5,459.89	7,929.37	7,826.80	102.57	77.310		
2,200.00	2,063.74	15,352.00	7,829.29	13.57	138.31	35.55	1,855.89	5,459.89	7,829.71	7,726.97	102.74	76.207		
2,300.00	2,141.45	15,352.00	7,829.29	14.84	138.31	62.32	1,855.89	5,459.89	7,729.87	7,626.99	102.88	75.133		
2,327.78	2,162.65	15,352.00	7,829.29	15.21	138.31	74.18	1,855.89	5,459.89	7,702.11	7,599.20	102.91	74.840		
2,400.00	2,217.51	15,352.00	7,829.29	16.17	138.31	74.18	1,855.89	5,459.89	7,629.96	7,526.97	102.99	74.082		
2,500.00	2,293.49	15,352.00	7,829.29	17.51	138.31	74.18	1,855.89	5,459.89	7,530.05	7,426.95	103.11	73.031		
2,600.00	2,369.47	15,352.00	7,829.29	18.86	138.31	74.18	1,855.89	5,459.89	7,430.15	7,326.92	103.22	71.980		
2,700.00	2,445.45	15,352.00	7,829.29	20.22	138.31	74.18	1,855.89	5,459.89	7,330.24	7,226.89	103.35	70.928		
2,800.00	2,521.42	15,352.00	7,829.29	21.59	138.31	74.18	1,855.89	5,459.89	7,230.34	7,126.86	103.47	69.876		
2,900.00	2,597.40	15,352.00	7,829.29	22.97	138.31	74.18	1,855.89	5,459.89	7,130.44	7,026.83	103.61	68.823		
3,000.00	2,673.38	15,352.00	7,829.29	24.34	138.31	74.18	1,855.89	5,459.89	7,030.54	6,926.80	103.74	67.769		
3,100.00	2,749.36	15,352.00	7,829.29	25.73	138.31	74.18	1,855.89	5,459.89	6,930.65	6,826.77	103.88	66.716		
3,200.00	2,825.33	15,352.00	7,829.29	27.11	138.31	74.18	1,855.89	5,459.89	6,830.76	6,726.73	104.03	65.662		
3,300.00	2,901.31	15,352.00	7,829.29	28.50	138.31	74.18	1,855.89	5,459.89	6,730.87	6,626.69	104.18	64.608		
3,400.00	2,977.29	15,352.00	7,829.29	29.90	138.31	74.18	1,855.89	5,459.89	6,630.99	6,526.65	104.34	63.554		
3,500.00	3,053.27	15,352.00	7,829.29	31.29	138.31	74.18	1,855.89	5,459.89	6,531.11	6,426.61	104.50	62.501		
3,600.00	3,129.24	15,352.00	7,829.29	32.69	138.31	74.18	1,855.89	5,459.89	6,431.23	6,326.57	104.66	61.447		
3,700.00	3,205.22	15,352.00	7,829.29	34.08	138.31	74.18	1,855.89	5,459.89	6,331.36	6,226.53	104.83	60.395		
3,800.00	3,281.20	15,352.00	7,829.29	35.48	138.31	74.18	1,855.89	5,459.89	6,231.49	6,126.48	105.01	59.342		
3,900.00	3,357.18	15,352.00	7,829.29	36.88	138.31	74.18	1,855.89	5,459.89	6,131.63	6,026.44	105.19	58.290		
4,000.00	3,433.15	15,352.00	7,829.29	38.29	138.31	74.18	1,855.89	5,459.89	6,031.77	5,926.39	105.38	57.239		
4,100.00	3,509.13	15,352.00	7,829.29	39.69	138.31	74.18	1,855.89	5,459.89	5,931.91	5,826.34	105.57	56.189		
4,200.00	3,585.11	15,352.00	7,829.29	41.09	138.31	74.18	1,855.89	5,459.89	5,832.06	5,726.29	105.77	55.139		
4,300.00	3,661.08	15,352.00	7,829.29	42.50	138.31	74.18	1,855.89	5,459.89	5,732.22	5,626.24	105.97	54.091		
4,400.00	3,737.06	15,352.00	7,829.29	43.90	138.31	74.18	1,855.89	5,459.89	5,632.38	5,526.19	106.19	53.043		
4,500.00	3,813.04	15,352.00	7,829.29	45.31	138.31	74.18	1,855.89	5,459.89	5,532.55	5,426.14	106.40	51.996		
4,600.00	3,889.02	15,352.00	7,829.29	46.71	138.31	74.18	1,855.89	5,459.89	5,432.72	5,326.09	106.63	50.951		
4,700.00	3,964.99	15,352.00	7,829.29	48.12	138.31	74.18	1,855.89	5,459.89	5,332.90	5,226.04	106.86	49.907		
4,800.00	4,040.97	15,352.00	7,829.29	49.53	138.31	74.18	1,855.89	5,459.89	5,233.08	5,125.99	107.09	48.864		
4,900.00	4,116.95	15,352.00	7,829.29	50.94	138.31	74.18	1,855.89	5,459.89	5,133.28	5,025.94	107.34	47.822		
5,000.00	4,192.93	15,352.00	7,829.29	52.35	138.31	74.18	1,855.89	5,459.89	5,033.48	4,925.88	107.59	46.782		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,268.90	15,352.00	7,829.29	53.76	138.31	74.18	1,855.89	5,459.89	4,933.69	4,825.83	107.85	45.744		
5,200.00	4,344.88	15,352.00	7,829.29	55.16	138.31	74.18	1,855.89	5,459.89	4,833.90	4,725.78	108.12	44.707		
5,300.00	4,420.86	15,352.00	7,829.29	56.57	138.31	74.18	1,855.89	5,459.89	4,734.13	4,625.73	108.40	43.672		
5,400.00	4,496.84	15,352.00	7,829.29	57.98	138.31	74.18	1,855.89	5,459.89	4,634.37	4,525.68	108.69	42.638		
5,500.00	4,572.81	15,352.00	7,829.29	59.39	138.31	74.18	1,855.89	5,459.89	4,534.62	4,425.63	108.99	41.606		
5,600.00	4,648.79	15,352.00	7,829.29	60.81	138.31	74.18	1,855.89	5,459.89	4,434.87	4,325.58	109.30	40.576		
5,700.00	4,724.77	15,352.00	7,829.29	62.22	138.31	74.18	1,855.89	5,459.89	4,335.14	4,225.53	109.62	39.548		
5,800.00	4,800.74	15,352.00	7,829.29	63.63	138.31	74.18	1,855.89	5,459.89	4,235.43	4,125.48	109.95	38.522		
5,900.00	4,876.72	15,352.00	7,829.29	65.04	138.31	74.18	1,855.89	5,459.89	4,135.72	4,025.43	110.29	37.497		
6,000.00	4,952.70	15,352.00	7,829.29	66.45	138.31	74.18	1,855.89	5,459.89	4,036.04	3,925.38	110.65	36.475		
6,100.00	5,028.68	15,352.00	7,829.29	67.86	138.31	74.18	1,855.89	5,459.89	3,936.36	3,825.34	111.02	35.455		
6,200.00	5,104.65	15,352.00	7,829.29	69.27	138.31	74.18	1,855.89	5,459.89	3,836.71	3,725.30	111.41	34.437		
6,300.00	5,180.63	15,352.00	7,829.29	70.69	138.31	74.18	1,855.89	5,459.89	3,737.07	3,625.25	111.81	33.422		
6,400.00	5,256.61	15,352.00	7,829.29	72.10	138.31	74.18	1,855.89	5,459.89	3,637.45	3,525.21	112.24	32.409		
6,500.00	5,332.59	15,352.00	7,829.29	73.51	138.31	74.18	1,855.89	5,459.89	3,537.86	3,425.18	112.68	31.398		
6,600.00	5,408.56	15,352.00	7,829.29	74.92	138.31	74.18	1,855.89	5,459.89	3,438.28	3,325.14	113.14	30.389		
6,700.00	5,484.54	15,352.00	7,829.29	76.34	138.31	74.18	1,855.89	5,459.89	3,338.74	3,225.11	113.63	29.383		
6,800.00	5,560.52	15,352.00	7,829.29	77.75	138.31	74.18	1,855.89	5,459.89	3,239.22	3,125.08	114.14	28.380		
6,900.00	5,636.50	15,352.00	7,829.29	79.16	138.31	74.18	1,855.89	5,459.89	3,139.73	3,025.05	114.67	27.380		
7,000.00	5,712.47	15,352.00	7,829.29	80.57	138.31	74.18	1,855.89	5,459.89	3,040.27	2,925.03	115.24	26.382		
7,100.00	5,788.45	15,352.00	7,829.29	81.99	138.31	74.18	1,855.89	5,459.89	2,940.86	2,825.01	115.84	25.387		
7,200.00	5,864.43	15,352.00	7,829.29	83.40	138.31	74.18	1,855.89	5,459.89	2,841.48	2,725.00	116.48	24.394		
7,300.00	5,940.40	15,352.00	7,829.29	84.81	138.31	74.18	1,855.89	5,459.89	2,742.15	2,624.99	117.16	23.405		
7,400.00	6,016.38	15,352.00	7,829.29	86.23	138.31	74.18	1,855.89	5,459.89	2,642.87	2,524.98	117.88	22.420		
7,500.00	6,092.36	15,352.00	7,829.29	87.64	138.31	74.18	1,855.89	5,459.89	2,543.64	2,424.98	118.66	21.437		
7,600.00	6,168.34	15,352.00	7,829.29	89.05	138.31	74.18	1,855.89	5,459.89	2,444.48	2,324.99	119.49	20.458		
7,700.00	6,244.31	15,352.00	7,829.29	90.47	138.31	74.18	1,855.89	5,459.89	2,345.39	2,225.01	120.38	19.483		
7,800.00	6,320.29	15,352.00	7,829.29	91.88	138.31	74.18	1,855.89	5,459.89	2,246.38	2,125.03	121.35	18.512		
7,900.00	6,396.27	15,352.00	7,829.29	93.30	138.31	74.18	1,855.89	5,459.89	2,147.46	2,025.06	122.40	17.545		
8,000.00	6,472.25	15,352.00	7,829.29	94.71	138.31	74.18	1,855.89	5,459.89	2,048.65	1,925.10	123.54	16.582		
8,100.00	6,548.22	15,352.00	7,829.29	96.12	138.31	74.18	1,855.89	5,459.89	1,949.95	1,825.16	124.80	15.625		
8,200.00	6,624.20	15,352.00	7,829.29	97.54	138.31	74.18	1,855.89	5,459.89	1,851.40	1,725.22	126.18	14.673		
8,300.00	6,700.18	15,352.00	7,829.29	98.95	138.31	74.18	1,855.89	5,459.89	1,753.01	1,625.31	127.70	13.727		
8,400.00	6,776.16	15,352.00	7,829.29	100.37	138.31	74.18	1,855.89	5,459.89	1,654.82	1,525.42	129.40	12.788		
8,500.00	6,852.13	15,352.00	7,829.29	101.78	138.31	74.18	1,855.89	5,459.89	1,556.85	1,425.55	131.30	11.857		
8,600.00	6,928.11	15,352.00	7,829.29	103.20	138.31	74.18	1,855.89	5,459.89	1,459.16	1,325.72	133.44	10.935		
8,700.00	7,004.09	15,352.00	7,829.29	104.61	138.31	74.18	1,855.89	5,459.89	1,361.81	1,225.94	135.87	10.023		
8,800.00	7,080.06	15,352.00	7,829.29	106.02	138.31	74.18	1,855.89	5,459.89	1,264.87	1,126.21	138.65	9.122		
8,900.00	7,156.04	15,343.91	7,829.11	107.44	138.17	73.39	1,863.98	5,459.90	1,168.42	1,027.27	141.15	8.278		
9,000.00	7,232.02	15,321.36	7,828.61	108.85	137.78	71.00	1,886.53	5,459.91	1,072.24	929.57	142.67	7.516		
9,104.68	7,311.55	15,298.25	7,828.09	110.33	137.37	68.18	1,910.13	5,459.93	971.82	827.26	144.56	6.722		
9,150.00	7,346.29	15,290.35	7,827.93	110.97	137.24	49.96	1,917.52	5,459.94	928.10	782.49	145.61	6.374		
9,200.00	7,385.15	15,285.69	7,827.83	111.65	137.16	23.52	1,922.18	5,459.95	879.36	732.53	146.83	5.989		
9,250.00	7,424.29	15,284.84	7,827.81	112.31	137.14	-6.19	1,923.03	5,459.95	830.46	682.35	148.12	5.607		
9,300.00	7,463.40	15,287.87	7,827.87	112.93	137.20	-32.03	1,920.00	5,459.94	781.79	632.32	149.47	5.230		
9,350.00	7,502.19	15,301.52	7,828.02	113.51	137.43	-51.37	1,913.39	5,459.93	733.74	582.78	150.96	4.861		
9,400.00	7,540.36	15,306.57	7,828.28	114.04	137.52	-65.25	1,901.31	5,459.92	686.71	534.16	152.55	4.502		
9,450.00	7,577.62	15,322.84	7,828.64	114.53	137.80	-75.67	1,885.04	5,459.91	641.08	486.68	154.40	4.152		
9,500.00	7,613.70	15,343.17	7,829.10	114.95	138.15	-83.70	1,864.72	5,459.90	597.22	440.79	156.43	3.818		
9,550.00	7,648.30	15,352.00	7,829.29	115.32	138.31	-91.14	1,855.89	5,459.89	555.70	399.75	155.95	3.563		
9,600.00	7,681.18	15,352.00	7,829.29	115.63	138.31	-97.62	1,855.89	5,459.89	518.03	364.96	153.07	3.384		
9,650.00	7,712.08	15,352.00	7,829.29	115.88	138.31	-102.72	1,855.89	5,459.89	485.50	335.90	149.59	3.245		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
9,700.00	7,740.76	15,352.00	7,829.29	116.08	138.31	-106.72	1,855.89	5,459.89	459.47	312.69	146.78	3.130		
9,750.00	7,767.01	15,352.00	7,829.29	116.23	138.31	-109.79	1,855.89	5,459.89	441.33	294.82	146.51	3.012		
9,800.00	7,790.63	15,352.00	7,829.29	116.33	138.31	-112.07	1,855.89	5,459.89	432.19	283.17	149.02	2.900		
9,822.36	7,800.30	15,352.00	7,829.29	116.35	138.31	-112.85	1,855.89	5,459.89	431.21	280.62	150.59	2.864 CC		
9,850.00	7,811.44	15,352.00	7,829.29	116.38	138.31	-113.61	1,855.89	5,459.89	432.70	280.16	152.55	2.837 ES, SF		
9,900.00	7,829.28	15,352.00	7,829.29	116.38	138.31	-114.46	1,855.89	5,459.89	442.83	287.34	155.49	2.848		
9,950.00	7,844.01	15,352.00	7,829.29	116.35	138.31	-114.59	1,855.89	5,459.89	461.87	304.67	157.20	2.938		
10,000.00	7,855.52	15,352.00	7,829.29	116.28	138.31	-113.95	1,855.89	5,459.89	488.64	330.93	157.71	3.098		
10,050.00	7,863.72	15,352.00	7,829.29	116.18	138.31	-112.41	1,855.89	5,459.89	521.78	364.41	157.37	3.316		
10,100.00	7,868.56	15,352.00	7,829.29	116.06	138.31	-109.72	1,855.89	5,459.89	559.92	403.37	156.55	3.577		
10,145.94	7,870.00	15,352.00	7,829.29	115.92	138.31	-105.91	1,855.89	5,459.89	598.34	442.71	155.63	3.845		
10,200.00	7,870.00	15,352.00	7,829.29	115.76	138.31	-105.91	1,855.89	5,459.89	645.67	491.15	154.52	4.179		
10,300.00	7,870.00	15,352.00	7,829.29	115.46	138.31	-105.91	1,855.89	5,459.89	735.67	583.07	152.60	4.821		
10,400.00	7,870.00	15,352.00	7,829.29	115.18	138.31	-105.91	1,855.89	5,459.89	827.97	677.02	150.95	5.485		
10,500.00	7,870.00	15,352.00	7,829.29	114.91	138.31	-105.91	1,855.89	5,459.89	921.88	772.31	149.57	6.164		
10,600.00	7,870.00	15,352.00	7,829.29	114.65	138.31	-105.91	1,855.89	5,459.89	1,016.95	868.51	148.44	6.851		
10,700.00	7,870.00	15,352.00	7,829.29	114.41	138.31	-105.91	1,855.89	5,459.89	1,112.88	965.37	147.51	7.544		
10,800.00	7,870.00	15,352.00	7,829.29	114.17	138.31	-105.91	1,855.89	5,459.89	1,209.47	1,062.71	146.76	8.241		
10,900.00	7,870.00	15,352.00	7,829.29	113.95	138.31	-105.91	1,855.89	5,459.89	1,306.58	1,160.43	146.15	8.940		
11,000.00	7,870.00	15,352.00	7,829.29	113.75	138.31	-105.91	1,855.89	5,459.89	1,404.09	1,258.44	145.65	9.640		
11,100.00	7,870.00	15,352.00	7,829.29	113.55	138.31	-105.91	1,855.89	5,459.89	1,501.93	1,356.69	145.24	10.341		
11,200.00	7,870.00	15,352.00	7,829.29	113.37	138.31	-105.91	1,855.89	5,459.89	1,600.04	1,455.12	144.91	11.041		
11,300.00	7,870.00	15,352.00	7,829.29	113.20	138.31	-105.91	1,855.89	5,459.89	1,698.36	1,553.72	144.64	11.742		
11,400.00	7,870.00	15,352.00	7,829.29	113.04	138.31	-105.91	1,855.89	5,459.89	1,796.88	1,652.45	144.42	12.442		
11,500.00	7,870.00	15,352.00	7,829.29	112.89	138.31	-105.91	1,855.89	5,459.89	1,895.54	1,751.30	144.24	13.141		
11,600.00	7,870.00	15,352.00	7,829.29	112.76	138.31	-105.91	1,855.89	5,459.89	1,994.34	1,850.24	144.10	13.840		
11,700.00	7,870.00	15,352.00	7,829.29	112.64	138.31	-105.91	1,855.89	5,459.89	2,093.26	1,949.28	143.98	14.538		
11,800.00	7,870.00	15,352.00	7,829.29	112.53	138.31	-105.91	1,855.89	5,459.89	2,192.27	2,048.38	143.89	15.236		
11,900.00	7,870.00	15,352.00	7,829.29	112.44	138.31	-105.91	1,855.89	5,459.89	2,291.37	2,147.56	143.81	15.933		
12,000.00	7,870.00	15,352.00	7,829.29	112.36	138.31	-105.91	1,855.89	5,459.89	2,390.54	2,246.79	143.75	16.630		
12,100.00	7,870.00	15,352.00	7,829.29	112.29	138.31	-105.91	1,855.89	5,459.89	2,489.78	2,346.08	143.71	17.326		
12,200.00	7,870.00	15,352.00	7,829.29	112.24	138.31	-105.91	1,855.89	5,459.89	2,589.08	2,445.41	143.67	18.021		
12,300.00	7,870.00	15,352.00	7,829.29	112.20	138.31	-105.91	1,855.89	5,459.89	2,688.43	2,544.79	143.64	18.716		
12,400.00	7,870.00	15,352.00	7,829.29	112.17	138.31	-105.91	1,855.89	5,459.89	2,787.83	2,644.20	143.63	19.410		
12,500.00	7,870.00	15,352.00	7,829.29	112.16	138.31	-105.91	1,855.89	5,459.89	2,887.27	2,743.65	143.62	20.104		
12,600.00	7,870.00	15,352.00	7,829.29	112.17	138.31	-105.91	1,855.89	5,459.89	2,986.74	2,843.13	143.61	20.798		
12,700.00	7,870.00	15,352.00	7,829.29	112.19	138.31	-105.91	1,855.89	5,459.89	3,086.25	2,942.64	143.61	21.491		
12,800.00	7,870.00	15,352.00	7,829.29	112.23	138.31	-105.91	1,855.89	5,459.89	3,185.79	3,042.18	143.61	22.183		
12,900.00	7,870.00	15,352.00	7,829.29	112.28	138.31	-105.91	1,855.89	5,459.89	3,285.36	3,141.74	143.62	22.876		
13,000.00	7,870.00	15,352.00	7,829.29	112.36	138.31	-105.91	1,855.89	5,459.89	3,384.96	3,241.33	143.63	23.568		
13,100.00	7,870.00	15,352.00	7,829.29	112.45	138.31	-105.91	1,855.89	5,459.89	3,484.57	3,340.93	143.64	24.259		
13,200.00	7,870.00	15,352.00	7,829.29	112.56	138.31	-105.91	1,855.89	5,459.89	3,584.21	3,440.56	143.65	24.950		
13,300.00	7,870.00	15,352.00	7,829.29	112.68	138.31	-105.91	1,855.89	5,459.89	3,683.87	3,540.20	143.67	25.641		
13,400.00	7,870.00	15,352.00	7,829.29	112.83	138.31	-105.91	1,855.89	5,459.89	3,783.55	3,639.86	143.69	26.332		
13,500.00	7,870.00	15,352.00	7,829.29	113.00	138.31	-105.91	1,855.89	5,459.89	3,883.24	3,739.53	143.71	27.022		
13,600.00	7,870.00	15,352.00	7,829.29	113.19	138.31	-105.91	1,855.89	5,459.89	3,982.95	3,839.22	143.73	27.712		
13,700.00	7,870.00	15,352.00	7,829.29	113.40	138.31	-105.91	1,855.89	5,459.89	4,082.67	3,938.92	143.75	28.402		
13,800.00	7,870.00	15,352.00	7,829.29	113.63	138.31	-105.91	1,855.89	5,459.89	4,182.40	4,038.64	143.77	29.091		
13,900.00	7,870.00	15,352.00	7,829.29	113.89	138.31	-105.91	1,855.89	5,459.89	4,282.15	4,138.36	143.79	29.781		
14,000.00	7,870.00	15,352.00	7,829.29	114.18	138.31	-105.91	1,855.89	5,459.89	4,381.91	4,238.10	143.81	30.470		
14,100.00	7,870.00	15,352.00	7,829.29	114.48	138.31	-105.91	1,855.89	5,459.89	4,481.68	4,337.85	143.84	31.158		
14,200.00	7,870.00	15,352.00	7,829.29	114.82	138.31	-105.91	1,855.89	5,459.89	4,581.46	4,437.60	143.86	31.847		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
14,300.00	7,870.00	15,352.00	7,829.29	115.18	138.31	-105.91	1,855.89	5,459.89	4,681.25	4,537.37	143.88	32.535		
14,400.00	7,870.00	15,352.00	7,829.29	115.57	138.31	-105.91	1,855.89	5,459.89	4,781.05	4,637.14	143.91	33.223		
14,500.00	7,870.00	15,352.00	7,829.29	115.99	138.31	-105.91	1,855.89	5,459.89	4,880.86	4,736.92	143.93	33.911		
14,600.00	7,870.00	15,352.00	7,829.29	116.44	138.31	-105.91	1,855.89	5,459.89	4,980.67	4,836.71	143.96	34.598		
14,700.00	7,870.00	15,352.00	7,829.29	116.92	138.31	-105.91	1,855.89	5,459.89	5,080.49	4,936.51	143.98	35.285		
14,800.00	7,870.00	15,352.00	7,829.29	117.44	138.31	-105.91	1,855.89	5,459.89	5,180.32	5,036.31	144.01	35.973		
14,900.00	7,870.00	15,352.00	7,829.29	117.98	138.31	-105.91	1,855.89	5,459.89	5,280.16	5,136.12	144.03	36.659		
15,000.00	7,870.00	15,352.00	7,829.29	118.56	138.31	-105.91	1,855.89	5,459.89	5,380.00	5,235.94	144.06	37.346		
15,100.00	7,870.00	15,352.00	7,829.29	119.17	138.31	-105.91	1,855.89	5,459.89	5,479.85	5,335.76	144.08	38.032		
15,200.00	7,870.00	15,352.00	7,829.29	119.81	138.31	-105.91	1,855.89	5,459.89	5,579.70	5,435.59	144.11	38.719		
15,300.00	7,870.00	15,352.00	7,829.29	120.48	138.31	-105.91	1,855.89	5,459.89	5,679.56	5,535.42	144.13	39.404		
15,400.00	7,870.00	15,352.00	7,829.29	121.19	138.31	-105.91	1,855.89	5,459.89	5,779.42	5,635.26	144.16	40.090		
15,500.00	7,870.00	15,352.00	7,829.29	121.93	138.31	-105.91	1,855.89	5,459.89	5,879.29	5,735.10	144.19	40.776		
15,600.00	7,870.00	15,352.00	7,829.29	122.71	138.31	-105.91	1,855.89	5,459.89	5,979.16	5,834.95	144.21	41.461		
15,700.00	7,870.00	15,352.00	7,829.29	123.52	138.31	-105.91	1,855.89	5,459.89	6,079.03	5,934.80	144.24	42.146		
15,800.00	7,870.00	15,352.00	7,829.29	124.36	138.31	-105.91	1,855.89	5,459.89	6,178.91	6,034.65	144.26	42.831		
15,900.00	7,870.00	15,352.00	7,829.29	125.23	138.31	-105.91	1,855.89	5,459.89	6,278.80	6,134.51	144.29	43.516		
16,000.00	7,870.00	15,352.00	7,829.29	126.14	138.31	-105.91	1,855.89	5,459.89	6,378.68	6,234.37	144.31	44.200		
16,100.00	7,870.00	15,352.00	7,829.29	127.07	138.31	-105.91	1,855.89	5,459.89	6,478.57	6,334.23	144.34	44.884		
16,200.00	7,870.00	15,352.00	7,829.29	128.04	138.31	-105.91	1,855.89	5,459.89	6,578.47	6,434.10	144.37	45.568		
16,300.00	7,870.00	15,352.00	7,829.29	129.04	138.31	-105.91	1,855.89	5,459.89	6,678.37	6,533.97	144.39	46.252		
16,400.00	7,870.00	15,352.00	7,829.29	130.06	138.31	-105.91	1,855.89	5,459.89	6,778.27	6,633.85	144.42	46.935		
16,500.00	7,870.00	15,352.00	7,829.29	131.11	138.31	-105.91	1,855.89	5,459.89	6,878.17	6,733.73	144.44	47.619		
16,600.00	7,870.00	15,352.00	7,829.29	132.19	138.31	-105.91	1,855.89	5,459.89	6,978.08	6,833.61	144.47	48.302		
16,700.00	7,870.00	15,352.00	7,829.29	133.29	138.31	-105.91	1,855.89	5,459.89	7,077.98	6,933.49	144.49	48.984		
16,800.00	7,870.00	15,352.00	7,829.29	134.42	138.31	-105.91	1,855.89	5,459.89	7,177.90	7,033.38	144.52	49.667		
16,900.00	7,870.00	15,352.00	7,829.29	135.57	138.31	-105.91	1,855.89	5,459.89	7,277.81	7,133.26	144.55	50.349		
17,000.00	7,870.00	15,352.00	7,829.29	136.75	138.31	-105.91	1,855.89	5,459.89	7,377.73	7,233.15	144.57	51.031		
17,100.00	7,870.00	15,352.00	7,829.29	137.94	138.31	-105.91	1,855.89	5,459.89	7,477.64	7,333.05	144.60	51.713		
17,200.00	7,870.00	15,352.00	7,829.29	139.16	138.31	-105.91	1,855.89	5,459.89	7,577.56	7,432.94	144.62	52.395		
17,300.00	7,870.00	15,352.00	7,829.29	140.39	138.31	-105.91	1,855.89	5,459.89	7,677.49	7,532.84	144.65	53.076		
17,400.00	7,870.00	15,352.00	7,829.29	141.65	138.31	-105.91	1,855.89	5,459.89	7,777.41	7,632.74	144.68	53.758		
17,500.00	7,870.00	15,352.00	7,829.29	142.92	138.31	-105.91	1,855.89	5,459.89	7,877.34	7,732.64	144.70	54.438		
17,600.00	7,870.00	15,352.00	7,829.29	144.21	138.31	-105.91	1,855.89	5,459.89	7,977.27	7,832.54	144.73	55.119		
17,700.00	7,870.00	15,352.00	7,829.29	145.52	138.31	-105.91	1,855.89	5,459.89	8,077.20	7,932.44	144.75	55.800		
17,800.00	7,870.00	15,352.00	7,829.29	146.84	138.31	-105.91	1,855.89	5,459.89	8,177.13	8,032.35	144.78	56.480		
17,900.00	7,870.00	15,352.00	7,829.29	148.18	138.31	-105.91	1,855.89	5,459.89	8,277.06	8,132.25	144.81	57.160		
18,000.00	7,870.00	15,352.00	7,829.29	149.54	138.31	-105.91	1,855.89	5,459.89	8,377.00	8,232.16	144.83	57.839		
18,100.00	7,870.00	15,352.00	7,829.29	150.90	138.31	-105.91	1,855.89	5,459.89	8,476.93	8,332.07	144.86	58.519		
18,200.00	7,870.00	15,352.00	7,829.29	152.28	138.31	-105.91	1,855.89	5,459.89	8,576.87	8,431.99	144.88	59.198		
18,300.00	7,870.00	15,352.00	7,829.29	153.67	138.31	-105.91	1,855.89	5,459.89	8,676.81	8,531.90	144.91	59.877		
18,400.00	7,870.00	15,352.00	7,829.29	155.07	138.31	-105.91	1,855.89	5,459.89	8,776.75	8,631.81	144.94	60.555		
18,500.00	7,870.00	15,352.00	7,829.29	156.49	138.31	-105.91	1,855.89	5,459.89	8,876.69	8,731.73	144.96	61.234		
18,600.00	7,870.00	15,352.00	7,829.29	157.91	138.31	-105.91	1,855.89	5,459.89	8,976.64	8,831.65	144.99	61.912		
18,700.00	7,870.00	15,352.00	7,829.29	159.35	138.31	-105.91	1,855.89	5,459.89	9,076.58	8,931.56	145.02	62.590		
18,800.00	7,870.00	15,352.00	7,829.29	160.79	138.31	-105.91	1,855.89	5,459.89	9,176.53	9,031.48	145.04	63.267		
18,900.00	7,870.00	15,352.00	7,829.29	162.25	138.31	-105.91	1,855.89	5,459.89	9,276.47	9,131.40	145.07	63.944		
19,000.00	7,870.00	15,352.00	7,829.29	163.71	138.31	-105.91	1,855.89	5,459.89	9,376.42	9,231.32	145.10	64.621		
19,100.00	7,870.00	15,352.00	7,829.29	165.18	138.31	-105.91	1,855.89	5,459.89	9,476.37	9,331.25	145.13	65.298		
19,200.00	7,870.00	15,352.00	7,829.29	166.66	138.31	-105.91	1,855.89	5,459.89	9,576.32	9,431.17	145.15	65.974		
19,300.00	7,870.00	15,352.00	7,829.29	168.15	138.31	-105.91	1,855.89	5,459.89	9,676.27	9,531.09	145.18	66.651		
19,400.00	7,870.00	15,352.00	7,829.29	169.65	138.31	-105.91	1,855.89	5,459.89	9,776.23	9,631.02	145.21	67.326		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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
19,500.00	7,870.00	15,352.00	7,829.29	171.15	138.31	-105.91	1,855.89	5,459.89	9,876.18	9,730.94	145.23	68.002	
19,600.00	7,870.00	15,352.00	7,829.29	172.66	138.31	-105.91	1,855.89	5,459.89	9,976.13	9,830.87	145.26	68.677	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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		
0.00	0.00	0.00	0.00	0.00	0.00	58.13	2,114.20	3,401.18	4,004.90					
100.00	100.00	52.06	52.06	0.13	0.10	58.13	2,114.20	3,401.23	4,004.78	4,004.55	0.23	N/A		
200.00	200.00	125.00	125.00	0.49	0.36	58.14	2,114.22	3,401.77	4,005.42	4,004.57	0.85	4,699.509		
300.00	300.00	204.81	204.80	0.85	0.64	58.14	2,114.53	3,402.73	4,006.64	4,005.15	1.50	2,677.928		
400.00	399.98	307.89	307.87	1.21	1.01	-10.01	2,115.36	3,404.00	4,006.40	4,004.19	2.22	1,806.129		
500.00	499.84	444.52	444.49	1.56	1.50	-10.03	2,115.21	3,405.52	4,002.12	3,999.06	3.06	1,307.159		
600.00	599.45	539.24	539.20	1.93	1.84	-10.06	2,114.52	3,406.52	3,994.05	3,990.29	3.76	1,062.274		
700.00	698.70	635.72	635.68	2.32	2.18	-10.12	2,114.40	3,407.35	3,982.71	3,978.24	4.47	891.193		
800.00	797.47	776.54	776.50	2.72	2.66	-10.25	2,115.09	3,407.06	3,967.37	3,962.05	5.32	745.459		
900.00	895.62	907.08	907.03	3.16	3.10	-10.38	2,114.41	3,406.25	3,947.80	3,941.66	6.14	643.298		
1,000.00	993.06	990.74	990.69	3.63	3.39	-10.52	2,113.87	3,405.45	3,924.55	3,917.76	6.80	577.209		
1,100.00	1,089.64	1,080.94	1,080.88	4.14	3.69	-10.69	2,114.03	3,404.59	3,898.39	3,890.90	7.49	520.428		
1,200.00	1,185.27	1,191.82	1,191.76	4.70	4.08	-10.91	2,114.13	3,403.38	3,868.80	3,860.54	8.26	468.350		
1,300.00	1,279.82	1,297.11	1,297.03	5.31	4.44	-11.16	2,113.94	3,402.10	3,835.73	3,826.71	9.02	425.303		
1,400.00	1,373.17	1,404.82	1,404.71	5.97	4.82	-11.46	2,114.03	3,399.47	3,798.56	3,788.77	9.79	387.902		
1,500.00	1,465.21	1,467.00	1,466.89	6.69	5.04	-11.72	2,114.02	3,398.68	3,759.07	3,748.65	10.42	360.715		
1,600.00	1,555.84	1,771.72	1,770.84	7.47	6.11	-12.12	2,094.91	3,397.42	3,714.56	3,702.72	11.85	313.533		
1,700.00	1,644.94	1,873.51	1,871.77	8.31	6.49	-12.35	2,081.71	3,397.27	3,663.69	3,651.08	12.62	290.408		
1,800.00	1,732.39	1,964.85	1,961.98	9.23	6.83	-12.57	2,067.51	3,398.57	3,609.87	3,596.51	13.36	270.194		
1,900.00	1,818.11	2,052.07	2,047.81	10.21	7.17	-12.79	2,052.15	3,400.53	3,552.84	3,538.73	14.10	251.918		
2,000.00	1,901.97	2,110.00	2,104.66	11.26	7.40	-13.05	2,041.17	3,402.55	3,493.33	3,478.56	14.76	236.662		
2,100.00	1,983.88	2,171.50	2,164.94	12.38	7.65	-13.34	2,029.29	3,405.24	3,431.56	3,416.12	15.44	222.239		
2,200.00	2,063.74	2,231.36	2,223.63	13.57	7.89	-13.67	2,017.90	3,408.21	3,367.62	3,351.50	16.13	208.834		
2,300.00	2,141.45	2,295.37	2,286.47	14.84	8.16	-14.04	2,006.10	3,411.43	3,301.41	3,284.58	16.83	196.168		
2,327.78	2,162.65	2,336.43	2,326.78	15.21	8.33	-14.14	1,998.59	3,413.37	3,282.54	3,265.44	17.10	191.960		
2,400.00	2,217.51	2,408.23	2,397.27	16.17	8.63	-14.11	1,985.21	3,416.26	3,232.78	3,215.10	17.68	182.845		
2,500.00	2,293.49	2,465.39	2,453.43	17.51	8.88	-14.09	1,974.84	3,418.46	3,164.01	3,145.64	18.37	172.264		
2,600.00	2,369.47	2,593.02	2,578.73	18.86	9.43	-14.03	1,950.96	3,422.68	3,094.61	3,075.36	19.25	160.747		
2,700.00	2,445.45	2,641.21	2,626.00	20.22	9.64	-14.00	1,941.70	3,424.21	3,025.02	3,005.08	19.93	151.770		
2,800.00	2,521.42	2,690.46	2,674.36	21.59	9.86	-13.97	1,932.56	3,426.02	2,955.98	2,935.35	20.63	143.311		
2,900.00	2,597.40	2,740.79	2,723.84	22.97	10.08	-13.95	1,923.60	3,428.09	2,887.50	2,866.17	21.34	135.339		
3,000.00	2,673.38	2,833.32	2,814.81	24.34	10.49	-13.91	1,907.17	3,432.15	2,819.26	2,797.12	22.14	127.325		
3,100.00	2,749.36	2,908.38	2,888.50	25.73	10.82	-13.86	1,893.19	3,435.22	2,750.45	2,727.54	22.91	120.036		
3,200.00	2,825.33	2,989.95	2,968.67	27.11	11.19	-13.82	1,878.52	3,438.25	2,681.67	2,657.97	23.70	113.150		
3,300.00	2,901.31	3,064.23	3,041.44	28.50	11.52	-13.74	1,863.94	3,441.31	2,612.50	2,588.02	24.47	106.742		
3,400.00	2,977.29	3,116.91	3,093.11	29.90	11.76	-13.69	1,853.91	3,443.64	2,543.72	2,518.50	25.23	100.827		
3,500.00	3,053.27	3,208.78	3,183.32	31.29	12.18	-13.62	1,836.94	3,447.54	2,475.12	2,449.09	26.03	95.094		
3,600.00	3,129.24	3,274.33	3,247.68	32.69	12.48	-13.57	1,824.81	3,449.91	2,406.07	2,379.27	26.80	89.775		
3,700.00	3,205.22	3,339.61	3,311.97	34.08	12.78	-13.55	1,813.68	3,452.10	2,337.43	2,309.85	27.58	84.747		
3,800.00	3,281.20	3,429.99	3,400.91	35.48	13.18	-13.51	1,797.90	3,455.00	2,268.54	2,240.17	28.36	79.978		
3,900.00	3,357.18	3,521.14	3,490.39	36.88	13.60	-13.42	1,780.72	3,457.82	2,199.05	2,169.91	29.14	75.473		
4,000.00	3,433.15	3,577.53	3,545.82	38.29	13.86	-13.39	1,770.51	3,459.35	2,129.58	2,099.66	29.92	71.166		
4,100.00	3,509.13	3,635.99	3,603.44	39.69	14.13	-13.38	1,760.73	3,460.78	2,060.52	2,029.80	30.72	67.069		
4,200.00	3,585.11	3,693.32	3,659.94	41.09	14.38	-13.36	1,751.17	3,462.68	1,991.99	1,960.46	31.53	63.177		
4,300.00	3,661.08	3,768.23	3,733.71	42.50	14.72	-13.31	1,738.47	3,465.60	1,923.73	1,891.41	32.32	59.521		
4,400.00	3,737.06	3,837.59	3,801.94	43.90	15.04	-13.25	1,726.37	3,468.49	1,855.45	1,822.33	33.12	56.018		
4,500.00	3,813.04	3,928.13	3,890.86	45.31	15.46	-13.13	1,709.87	3,472.77	1,787.28	1,753.41	33.87	52.774		
4,600.00	3,889.02	4,013.40	3,974.51	46.71	15.86	-13.00	1,693.56	3,475.50	1,717.68	1,683.07	34.60	49.637		
4,700.00	3,964.99	4,065.48	4,025.85	48.12	16.10	-12.97	1,684.88	3,476.83	1,648.70	1,613.23	35.47	46.484		
4,800.00	4,040.97	4,126.04	4,085.70	49.53	16.36	-12.99	1,675.83	3,478.48	1,580.48	1,544.16	36.32	43.519		
4,900.00	4,116.95	4,213.96	4,172.51	50.94	16.76	-12.97	1,662.21	3,481.50	1,512.57	1,475.53	37.04	40.837		
5,000.00	4,192.93	4,311.15	4,268.16	52.35	17.20	-12.89	1,645.15	3,483.63	1,442.93	1,405.26	37.67	38.300		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,268.90	4,383.78	4,339.55	53.76	17.54	-12.79	1,631.84	3,485.07	1,372.98	1,334.54	38.44	35.716		
5,200.00	4,344.88	4,453.65	4,408.06	55.16	17.87	-12.64	1,618.31	3,486.96	1,303.07	1,263.85	39.22	33.225		
5,300.00	4,420.86	4,527.46	4,480.37	56.57	18.23	-12.43	1,603.61	3,489.18	1,233.14	1,193.18	39.96	30.859		
5,400.00	4,496.84	4,606.66	4,557.94	57.98	18.61	-12.18	1,587.80	3,491.23	1,162.96	1,122.33	40.63	28.622		
5,500.00	4,572.81	4,674.54	4,624.43	59.39	18.93	-11.95	1,574.19	3,492.63	1,092.44	1,051.02	41.41	26.379		
5,600.00	4,648.79	4,734.19	4,682.97	60.81	19.22	-11.75	1,562.84	3,494.14	1,022.58	980.27	42.31	24.169		
5,700.00	4,724.77	4,799.74	4,747.44	62.22	19.52	-11.55	1,551.13	3,496.03	953.38	910.23	43.15	22.094		
5,800.00	4,800.74	4,868.51	4,815.19	63.63	19.84	-11.36	1,539.52	3,498.09	884.62	840.65	43.96	20.122		
5,900.00	4,876.72	4,940.31	4,885.87	65.04	20.17	-11.09	1,527.14	3,500.58	816.03	771.31	44.72	18.248		
6,000.00	4,952.70	5,014.69	4,959.12	66.45	20.51	-10.79	1,514.46	3,502.99	747.39	701.97	45.42	16.456		
6,100.00	5,028.68	5,084.47	5,027.95	67.86	20.83	-10.52	1,503.16	3,504.98	678.81	632.60	46.21	14.689		
6,200.00	5,104.65	5,154.20	5,096.84	69.27	21.14	-10.27	1,492.56	3,506.94	610.59	563.56	47.03	12.983		
6,300.00	5,180.63	5,224.34	5,166.10	70.69	21.45	-9.91	1,481.77	3,509.44	542.79	494.95	47.84	11.347		
6,400.00	5,256.61	5,295.28	5,236.12	72.10	21.77	-9.40	1,470.75	3,512.50	475.43	426.81	48.62	9.779		
6,500.00	5,332.59	5,371.64	5,311.44	73.51	22.12	-8.61	1,458.70	3,515.92	408.13	358.97	49.15	8.303		
6,600.00	5,408.56	5,445.59	5,384.41	74.92	22.45	-7.59	1,447.08	3,518.82	340.54	290.80	49.73	6.847		
6,700.00	5,484.54	5,520.12	5,458.13	76.34	22.78	-6.40	1,436.40	3,521.22	273.03	222.78	50.25	5.433		
6,800.00	5,560.52	5,595.12	5,532.31	77.75	23.11	-4.41	1,425.46	3,523.06	205.03	154.40	50.62	4.050		
6,900.00	5,636.50	5,667.02	5,603.39	79.16	23.43	-0.53	1,414.80	3,524.96	137.35	85.99	51.36	2.674		
7,000.00	5,712.47	5,739.98	5,675.50	80.57	23.75	10.63	1,403.93	3,527.40	71.20	16.74	54.46	1.307 Level 3		
7,099.93	5,788.40	5,813.45	5,748.05	81.99	24.08	76.50	1,392.73	3,530.17	22.09	-79.41	101.50	0.218 Level 1, CC		
7,100.00	5,788.45	5,813.49	5,748.09	81.99	24.08	76.58	1,392.72	3,530.17	22.09	-79.43	101.52	0.218 Level 1, ES, SF		
7,200.00	5,864.43	5,886.74	5,820.36	83.40	24.41	142.54	1,381.05	3,532.68	71.73	2.46	69.27	1.035 Level 2		
7,300.00	5,940.40	5,962.08	5,894.86	84.81	24.74	154.55	1,370.11	3,535.20	137.54	74.49	63.05	2.182		
7,400.00	6,016.38	6,034.86	5,966.89	86.23	25.06	158.83	1,359.99	3,537.66	204.26	142.93	61.33	3.330		
7,500.00	6,092.36	6,108.28	6,039.46	87.64	25.38	160.90	1,349.18	3,540.21	271.62	210.52	61.10	4.446		
7,600.00	6,168.34	6,183.48	6,113.77	89.05	25.72	162.13	1,338.01	3,543.03	339.00	277.52	61.47	5.514		
7,700.00	6,244.31	6,259.90	6,189.49	90.47	26.05	163.19	1,327.95	3,545.68	405.87	343.89	61.98	6.548		
7,800.00	6,320.29	6,331.99	6,260.92	91.88	26.35	163.94	1,318.59	3,548.06	472.84	410.51	62.33	7.586		
7,900.00	6,396.27	6,407.48	6,335.72	93.30	26.68	164.51	1,308.65	3,550.52	539.93	476.96	62.97	8.574		
8,000.00	6,472.25	6,488.20	6,415.79	94.71	27.01	165.07	1,298.88	3,553.18	606.61	542.77	63.85	9.501		
8,100.00	6,548.22	6,566.20	6,493.37	96.12	27.33	165.67	1,291.15	3,555.66	672.47	607.96	64.52	10.423		
8,200.00	6,624.20	6,637.96	6,564.79	97.54	27.61	166.18	1,284.45	3,557.52	738.52	673.57	64.95	11.370		
8,300.00	6,700.18	6,707.76	6,634.29	98.95	27.88	166.64	1,278.10	3,558.77	805.01	739.66	65.35	12.318		
8,400.00	6,776.16	6,785.74	6,711.99	100.37	28.18	167.14	1,271.56	3,559.68	871.65	805.62	66.04	13.200		
8,500.00	6,852.13	6,870.09	6,796.15	101.78	28.49	167.71	1,265.90	3,560.51	937.79	870.92	66.87	14.024		
8,600.00	6,928.11	6,956.80	6,882.76	103.20	28.79	168.32	1,261.94	3,561.47	1,003.05	935.35	67.70	14.816		
8,700.00	7,004.09	7,041.53	6,967.44	104.61	29.07	168.92	1,259.49	3,562.58	1,067.59	999.15	68.44	15.599		
8,800.00	7,080.06	7,125.91	7,051.80	106.02	29.35	169.49	1,258.04	3,563.77	1,131.65	1,062.51	69.15	16.366		
8,900.00	7,156.04	7,210.02	7,135.89	107.44	29.61	170.03	1,257.50	3,565.24	1,195.14	1,125.30	69.83	17.114		
9,000.00	7,232.02	7,285.12	7,210.99	108.85	29.82	170.52	1,257.83	3,566.19	1,258.59	1,188.28	70.31	17.900		
9,104.68	7,311.55	7,444.49	7,369.82	110.33	30.21	171.92	1,269.12	3,567.81	1,322.64	1,250.57	72.08	18.351		
9,150.00	7,346.29	8,393.87	7,904.46	110.97	30.67	-165.19	1,930.74	3,554.82	1,340.69	1,253.93	86.77	15.452		
9,200.00	7,385.15	8,403.73	7,904.94	111.65	30.69	-172.01	1,940.57	3,555.27	1,351.81	1,264.10	87.71	15.413		
9,250.00	7,424.29	8,409.05	7,905.20	112.31	30.70	-179.40	1,945.88	3,555.51	1,364.79	1,276.30	88.49	15.423		
9,300.00	7,463.40	8,409.78	7,905.23	112.93	30.70	172.83	1,946.61	3,555.54	1,379.53	1,290.44	89.10	15.484		
9,350.00	7,502.19	8,405.88	7,905.04	113.51	30.69	164.88	1,942.73	3,555.37	1,395.87	1,306.35	89.52	15.592		
9,400.00	7,540.36	8,397.37	7,904.63	114.04	30.68	156.93	1,934.23	3,554.98	1,413.60	1,323.83	89.77	15.747		
9,450.00	7,577.62	8,384.29	7,903.99	114.53	30.65	149.15	1,921.18	3,554.40	1,432.46	1,342.62	89.84	15.944		
9,500.00	7,613.70	8,361.63	7,902.88	114.95	30.61	141.44	1,898.56	3,553.41	1,452.14	1,362.62	89.52	16.221		
9,550.00	7,648.30	8,318.59	7,900.48	115.32	30.55	133.54	1,855.62	3,551.96	1,472.11	1,383.76	88.35	16.662		
9,600.00	7,681.18	8,267.01	7,896.88	115.63	30.51	126.03	1,804.18	3,550.95	1,491.82	1,404.91	86.91	17.165		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
9,650.00	7,712.08	9,650.00	7,879.13	115.88	30.65	117.28	1,695.77	3,550.96	1,510.65	1,427.13	83.52	18.087		
9,700.00	7,740.76	8,094.17	7,862.26	116.08	30.47	110.89	1,635.29	3,552.80	1,527.45	1,445.82	81.63	18.713		
9,750.00	7,767.01	9,750.00	7,836.30	116.23	29.73	104.94	1,571.67	3,555.41	1,542.96	1,463.75	79.22	19.477		
9,800.00	7,790.63	7,983.76	7,817.73	116.33	30.52	100.49	1,534.53	3,557.43	1,556.90	1,477.63	79.28	19.639		
9,850.00	7,811.44	7,960.72	7,805.96	116.38	30.53	97.13	1,514.76	3,558.59	1,569.34	1,489.97	79.37	19.772		
9,900.00	7,829.28	7,944.00	7,796.81	116.38	30.54	94.43	1,500.78	3,559.35	1,580.45	1,500.65	79.80	19.806		
9,950.00	7,844.01	7,919.84	7,782.67	116.35	30.55	91.92	1,481.22	3,560.29	1,590.13	1,510.09	80.05	19.865		
10,000.00	7,855.52	7,901.12	7,770.94	116.28	30.56	89.98	1,466.64	3,560.87	1,598.34	1,517.72	80.62	19.826		
10,050.00	7,863.72	7,882.78	7,758.83	116.18	30.56	88.43	1,452.88	3,561.30	1,604.99	1,523.66	81.32	19.736		
10,100.00	7,868.56	7,850.00	7,735.72	116.06	30.58	86.85	1,429.65	3,561.77	1,610.12	1,528.53	81.59	19.734		
10,145.94	7,870.00	7,847.31	7,733.74	115.92	30.58	86.47	1,427.82	3,561.79	1,613.11	1,530.11	83.00	19.435		
10,200.00	7,870.00	7,814.55	7,708.95	115.76	30.58	85.59	1,406.43	3,562.13	1,616.43	1,532.84	83.59	19.338		
10,300.00	7,870.00	7,761.88	7,666.35	115.46	30.57	84.08	1,375.51	3,563.04	1,625.65	1,540.54	85.11	19.101		
10,400.00	7,870.00	7,715.05	7,626.02	115.18	30.55	82.65	1,351.77	3,564.39	1,639.28	1,552.28	87.00	18.843		
10,500.00	7,870.00	7,685.11	7,599.32	114.91	30.53	81.71	1,338.27	3,565.48	1,657.71	1,568.15	89.56	18.509		
10,600.00	7,870.00	7,661.00	7,577.41	114.65	30.52	80.94	1,328.26	3,566.36	1,681.21	1,588.90	92.31	18.212		
10,700.00	7,870.00	7,645.44	7,563.09	114.41	30.50	80.44	1,322.18	3,566.85	1,709.79	1,614.53	95.26	17.949		
10,800.00	7,870.00	7,631.31	7,550.00	114.17	30.49	79.98	1,316.89	3,567.19	1,743.31	1,645.22	98.10	17.771		
10,900.00	7,870.00	7,614.00	7,533.83	113.95	30.47	79.42	1,310.70	3,567.44	1,781.56	1,680.89	100.68	17.696		
11,000.00	7,870.00	7,614.00	7,533.83	113.75	30.47	79.42	1,310.70	3,567.44	1,824.28	1,720.74	103.54	17.620		
11,100.00	7,870.00	7,592.66	7,513.72	113.55	30.45	78.73	1,303.55	3,567.59	1,871.04	1,765.42	105.62	17.716		
11,200.00	7,870.00	7,581.23	7,502.88	113.37	30.44	78.35	1,299.95	3,567.62	1,921.72	1,813.96	107.76	17.834		
11,300.00	7,870.00	7,567.00	7,489.30	113.20	30.42	77.89	1,295.69	3,567.61	1,976.00	1,866.36	109.64	18.023		
11,400.00	7,870.00	7,567.00	7,489.30	113.04	30.42	77.89	1,295.69	3,567.61	2,033.61	1,921.98	111.64	18.217		
11,500.00	7,870.00	7,548.99	7,472.01	112.89	30.39	77.30	1,290.65	3,567.56	2,094.22	1,981.15	113.07	18.522		
11,600.00	7,870.00	7,539.16	7,462.53	112.76	30.38	76.98	1,288.07	3,567.54	2,157.66	2,043.15	114.51	18.842		
11,700.00	7,870.00	7,520.00	7,443.95	112.64	30.35	76.35	1,283.37	3,567.52	2,223.75	2,108.11	115.64	19.231		
11,800.00	7,870.00	7,520.00	7,443.95	112.53	30.35	76.35	1,283.37	3,567.52	2,292.07	2,175.11	116.96	19.597		
11,900.00	7,870.00	7,520.00	7,443.95	112.44	30.35	76.35	1,283.37	3,567.52	2,362.66	2,244.52	118.14	19.999		
12,000.00	7,870.00	7,520.00	7,443.95	112.36	30.35	76.35	1,283.37	3,567.52	2,435.30	2,316.11	119.19	20.432		
12,100.00	7,870.00	7,499.34	7,423.81	112.29	30.31	75.67	1,278.80	3,567.56	2,509.56	2,389.73	119.83	20.942		
12,200.00	7,870.00	7,492.90	7,417.50	112.24	30.30	75.46	1,277.48	3,567.58	2,585.62	2,465.02	120.59	21.441		
12,300.00	7,870.00	7,473.00	7,397.96	112.20	30.27	74.80	1,273.73	3,567.71	2,663.33	2,542.23	121.10	21.993		
12,400.00	7,870.00	7,473.00	7,397.96	112.17	30.27	74.80	1,273.73	3,567.71	2,742.25	2,620.46	121.79	22.516		
12,500.00	7,870.00	7,473.00	7,397.96	112.16	30.27	74.80	1,273.73	3,567.71	2,822.51	2,700.11	122.40	23.059		
12,600.00	7,870.00	7,473.00	7,397.96	112.17	30.27	74.80	1,273.73	3,567.71	2,903.99	2,781.05	122.95	23.620		
12,700.00	7,870.00	7,473.00	7,397.96	112.19	30.27	74.80	1,273.73	3,567.71	2,986.60	2,863.17	123.44	24.196		
12,800.00	7,870.00	7,473.00	7,397.96	112.23	30.27	74.80	1,273.73	3,567.71	3,070.25	2,946.38	123.87	24.786		
12,900.00	7,870.00	7,473.00	7,397.96	112.28	30.27	74.80	1,273.73	3,567.71	3,154.85	3,030.59	124.26	25.389		
13,000.00	7,870.00	7,455.70	7,380.90	112.36	30.24	74.23	1,270.83	3,567.80	3,240.11	3,115.67	124.45	26.036		
13,100.00	7,870.00	7,452.20	7,377.45	112.45	30.23	74.12	1,270.28	3,567.81	3,326.31	3,201.57	124.73	26.667		
13,200.00	7,870.00	7,448.85	7,374.14	112.56	30.22	74.01	1,269.77	3,567.81	3,413.24	3,288.25	124.99	27.308		
13,300.00	7,870.00	7,445.64	7,370.97	112.68	30.22	73.91	1,269.29	3,567.81	3,500.86	3,375.64	125.22	27.958		
13,400.00	7,870.00	7,426.00	7,351.51	112.83	30.18	73.27	1,266.56	3,567.72	3,589.29	3,463.99	125.30	28.646		
13,500.00	7,870.00	7,426.00	7,351.51	113.00	30.18	73.27	1,266.56	3,567.72	3,678.07	3,552.56	125.51	29.305		
13,600.00	7,870.00	7,426.00	7,351.51	113.19	30.18	73.27	1,266.56	3,567.72	3,767.41	3,641.71	125.70	29.972		
13,700.00	7,870.00	7,426.00	7,351.51	113.40	30.18	73.27	1,266.56	3,567.72	3,857.27	3,731.41	125.87	30.645		
13,800.00	7,870.00	7,426.00	7,351.51	113.63	30.18	73.27	1,266.56	3,567.72	3,947.63	3,821.61	126.02	31.325		
13,900.00	7,870.00	7,426.00	7,351.51	113.89	30.18	73.27	1,266.56	3,567.72	4,038.43	3,912.27	126.16	32.011		
14,000.00	7,870.00	7,426.00	7,351.51	114.18	30.18	73.27	1,266.56	3,567.72	4,129.66	4,003.38	126.28	32.702		
14,100.00	7,870.00	7,426.00	7,351.51	114.48	30.18	73.27	1,266.56	3,567.72	4,221.29	4,094.90	126.39	33.398		
14,200.00	7,870.00	7,426.00	7,351.51	114.82	30.18	73.27	1,266.56	3,567.72	4,313.29	4,186.80	126.49	34.099		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
14,300.00	7,870.00	7,426.00	7,351.51	115.18	30.18	73.27	1,266.56	3,567.72	4,405.64	4,279.06	126.58	34.805		
14,400.00	7,870.00	7,426.00	7,351.51	115.57	30.18	73.27	1,266.56	3,567.72	4,498.32	4,371.66	126.66	35.514		
14,500.00	7,870.00	7,426.00	7,351.51	115.99	30.18	73.27	1,266.56	3,567.72	4,591.30	4,464.57	126.73	36.228		
14,600.00	7,870.00	7,426.00	7,351.51	116.44	30.18	73.27	1,266.56	3,567.72	4,684.58	4,557.78	126.80	36.945		
14,700.00	7,870.00	7,426.00	7,351.51	116.92	30.18	73.27	1,266.56	3,567.72	4,778.12	4,651.27	126.86	37.666		
14,800.00	7,870.00	7,426.00	7,351.51	117.44	30.18	73.27	1,266.56	3,567.72	4,871.92	4,745.01	126.91	38.389		
14,900.00	7,870.00	7,426.00	7,351.51	117.98	30.18	73.27	1,266.56	3,567.72	4,965.97	4,839.01	126.95	39.116		
15,000.00	7,870.00	7,426.00	7,351.51	118.56	30.18	73.27	1,266.56	3,567.72	5,060.24	4,933.24	127.00	39.846		
15,100.00	7,870.00	7,405.93	7,331.59	119.17	30.13	72.62	1,264.21	3,567.54	5,154.46	5,027.52	126.94	40.606		
15,200.00	7,870.00	7,404.43	7,330.09	119.81	30.13	72.57	1,264.05	3,567.53	5,249.11	5,122.14	126.97	41.343		
15,300.00	7,870.00	7,402.98	7,328.65	120.48	30.12	72.52	1,263.91	3,567.51	5,343.95	5,216.96	126.99	42.082		
15,400.00	7,870.00	7,401.57	7,327.25	121.19	30.12	72.48	1,263.76	3,567.50	5,438.97	5,311.96	127.01	42.822		
15,500.00	7,870.00	7,400.21	7,325.89	121.93	30.12	72.43	1,263.63	3,567.48	5,534.17	5,407.14	127.03	43.565		
15,600.00	7,870.00	7,398.89	7,324.58	122.71	30.11	72.39	1,263.50	3,567.47	5,629.53	5,502.48	127.05	44.310		
15,700.00	7,870.00	7,379.00	7,304.77	123.52	30.07	71.75	1,261.79	3,567.23	5,725.28	5,598.29	126.99	45.086		
15,800.00	7,870.00	7,379.00	7,304.77	124.36	30.07	71.75	1,261.79	3,567.23	5,820.92	5,693.91	127.01	45.832		
15,900.00	7,870.00	7,379.00	7,304.77	125.23	30.07	71.75	1,261.79	3,567.23	5,916.70	5,789.67	127.02	46.579		
16,000.00	7,870.00	7,379.00	7,304.77	126.14	30.07	71.75	1,261.79	3,567.23	6,012.61	5,885.57	127.04	47.329		
16,100.00	7,870.00	7,379.00	7,304.77	127.07	30.07	71.75	1,261.79	3,567.23	6,108.66	5,981.61	127.05	48.079		
16,200.00	7,870.00	7,379.00	7,304.77	128.04	30.07	71.75	1,261.79	3,567.23	6,204.84	6,077.77	127.07	48.831		
16,300.00	7,870.00	7,379.00	7,304.77	129.04	30.07	71.75	1,261.79	3,567.23	6,301.13	6,174.05	127.08	49.584		
16,400.00	7,870.00	7,379.00	7,304.77	130.06	30.07	71.75	1,261.79	3,567.23	6,397.54	6,270.45	127.09	50.339		
16,500.00	7,870.00	7,379.00	7,304.77	131.11	30.07	71.75	1,261.79	3,567.23	6,494.05	6,366.95	127.10	51.095		
16,600.00	7,870.00	7,379.00	7,304.77	132.19	30.07	71.75	1,261.79	3,567.23	6,590.67	6,463.56	127.11	51.851		
16,700.00	7,870.00	7,379.00	7,304.77	133.29	30.07	71.75	1,261.79	3,567.23	6,687.39	6,560.27	127.11	52.609		
16,800.00	7,870.00	7,379.00	7,304.77	134.42	30.07	71.75	1,261.79	3,567.23	6,784.20	6,657.08	127.12	53.368		
16,900.00	7,870.00	7,379.00	7,304.77	135.57	30.07	71.75	1,261.79	3,567.23	6,881.11	6,753.98	127.13	54.128		
17,000.00	7,870.00	7,379.00	7,304.77	136.75	30.07	71.75	1,261.79	3,567.23	6,978.10	6,850.97	127.13	54.888		
17,100.00	7,870.00	7,379.00	7,304.77	137.94	30.07	71.75	1,261.79	3,567.23	7,075.17	6,948.04	127.14	55.650		
17,200.00	7,870.00	7,379.00	7,304.77	139.16	30.07	71.75	1,261.79	3,567.23	7,172.33	7,045.19	127.14	56.412		
17,300.00	7,870.00	7,379.00	7,304.77	140.39	30.07	71.75	1,261.79	3,567.23	7,269.56	7,142.42	127.15	57.175		
17,400.00	7,870.00	7,379.00	7,304.77	141.65	30.07	71.75	1,261.79	3,567.23	7,366.87	7,239.72	127.15	57.938		
17,500.00	7,870.00	7,379.00	7,304.77	142.92	30.07	71.75	1,261.79	3,567.23	7,464.25	7,337.10	127.15	58.702		
17,600.00	7,870.00	7,379.00	7,304.77	144.21	30.07	71.75	1,261.79	3,567.23	7,561.70	7,434.54	127.16	59.467		
17,700.00	7,870.00	7,379.00	7,304.77	145.52	30.07	71.75	1,261.79	3,567.23	7,659.21	7,532.05	127.16	60.232		
17,800.00	7,870.00	7,379.00	7,304.77	146.84	30.07	71.75	1,261.79	3,567.23	7,756.79	7,629.62	127.17	60.998		
17,900.00	7,870.00	7,379.00	7,304.77	148.18	30.07	71.75	1,261.79	3,567.23	7,854.42	7,727.25	127.17	61.764		
18,000.00	7,870.00	7,379.00	7,304.77	149.54	30.07	71.75	1,261.79	3,567.23	7,952.12	7,824.95	127.17	62.530		
18,100.00	7,870.00	7,379.00	7,304.77	150.90	30.07	71.75	1,261.79	3,567.23	8,049.87	7,922.70	127.18	63.297		
18,200.00	7,870.00	7,379.00	7,304.77	152.28	30.07	71.75	1,261.79	3,567.23	8,147.68	8,020.50	127.18	64.065		
18,300.00	7,870.00	7,379.00	7,304.77	153.67	30.07	71.75	1,261.79	3,567.23	8,245.54	8,118.36	127.18	64.832		
18,400.00	7,870.00	7,379.00	7,304.77	155.07	30.07	71.75	1,261.79	3,567.23	8,343.45	8,216.26	127.19	65.600		
18,500.00	7,870.00	7,379.00	7,304.77	156.49	30.07	71.75	1,261.79	3,567.23	8,441.41	8,314.22	127.19	66.369		
18,600.00	7,870.00	7,379.00	7,304.77	157.91	30.07	71.75	1,261.79	3,567.23	8,539.41	8,412.22	127.19	67.137		
18,700.00	7,870.00	7,379.00	7,304.77	159.35	30.07	71.75	1,261.79	3,567.23	8,637.47	8,510.27	127.20	67.906		
18,800.00	7,870.00	7,379.00	7,304.77	160.79	30.07	71.75	1,261.79	3,567.23	8,735.56	8,608.36	127.20	68.675		
18,900.00	7,870.00	7,379.00	7,304.77	162.25	30.07	71.75	1,261.79	3,567.23	8,833.70	8,706.50	127.21	69.444		
19,000.00	7,870.00	7,379.00	7,304.77	163.71	30.07	71.75	1,261.79	3,567.23	8,931.88	8,804.67	127.21	70.213		
19,100.00	7,870.00	7,379.00	7,304.77	165.18	30.07	71.75	1,261.79	3,567.23	9,030.10	8,902.89	127.22	70.982		
19,200.00	7,870.00	7,379.00	7,304.77	166.66	30.07	71.75	1,261.79	3,567.23	9,128.36	9,001.14	127.22	71.752		
19,300.00	7,870.00	7,379.00	7,304.77	168.15	30.07	71.75	1,261.79	3,567.23	9,226.66	9,099.43	127.23	72.521		
19,400.00	7,870.00	7,379.00	7,304.77	169.65	30.07	71.75	1,261.79	3,567.23	9,324.99	9,197.76	127.23	73.291		

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

Anticollision Report

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

Offset Design		SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 28C-11HZ - OWB - FINAL SURVEY										Offset Site Error:	0.00 usft
Survey Program:		25-MWD OWSG										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,500.00	7,870.00	7,379.00	7,304.77	171.15	30.07	71.75	1,261.79	3,567.23	9,423.36	9,296.12	127.24	74.061	
19,600.00	7,870.00	7,379.00	7,304.77	172.66	30.07	71.75	1,261.79	3,567.23	9,521.76	9,394.52	127.24	74.830	
19,700.00	7,870.00	7,379.00	7,304.77	174.18	30.07	71.75	1,261.79	3,567.23	9,620.20	9,492.95	127.25	75.600	
19,800.00	7,870.00	7,379.00	7,304.77	175.70	30.07	71.75	1,261.79	3,567.23	9,718.66	9,591.40	127.26	76.370	
19,889.26	7,870.00	7,379.00	7,304.77	177.06	30.07	71.75	1,261.79	3,567.23	9,806.58	9,679.31	127.26	77.057	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	57.69	2,113.10	3,341.55	3,953.79					
100.00	100.00	53.23	53.23	0.13	0.10	57.69	2,113.09	3,341.59	3,953.67	3,953.43	0.24	N/A		
200.00	200.00	128.27	128.27	0.49	0.37	57.70	2,113.00	3,342.16	3,954.24	3,953.38	0.86	4,577.095		
300.00	300.00	224.50	224.49	0.85	0.71	57.70	2,113.14	3,343.13	3,955.17	3,953.60	1.57	2,525.613		
400.00	399.98	312.38	312.36	1.21	1.03	-10.45	2,113.61	3,344.00	3,954.58	3,952.34	2.23	1,770.418		
500.00	499.84	449.48	449.46	1.56	1.51	-10.48	2,114.22	3,344.79	3,950.12	3,947.04	3.08	1,283.717		
600.00	599.45	534.99	534.97	1.93	1.81	-10.54	2,115.00	3,344.88	3,942.11	3,938.37	3.74	1,054.238		
700.00	698.70	663.25	663.22	2.32	2.26	-10.65	2,116.53	3,344.35	3,930.41	3,925.85	4.55	863.181		
800.00	797.47	773.83	773.79	2.72	2.64	-10.77	2,117.11	3,343.69	3,914.81	3,909.51	5.31	737.890		
900.00	895.62	880.87	880.83	3.16	3.01	-10.91	2,117.33	3,342.99	3,895.63	3,889.58	6.05	644.044		
1,000.00	993.06	977.42	977.38	3.63	3.34	-11.07	2,117.37	3,342.25	3,872.92	3,866.16	6.76	572.995		
1,100.00	1,089.64	1,062.25	1,062.21	4.14	3.64	-11.23	2,116.98	3,342.07	3,847.09	3,839.65	7.44	517.412		
1,200.00	1,185.27	1,972.42	1,963.62	4.70	7.01	-12.09	2,053.59	3,264.67	3,807.32	3,796.49	10.83	351.493		
1,300.00	1,279.82	2,018.00	2,008.12	5.31	7.21	-12.35	2,046.06	3,258.25	3,756.33	3,744.95	11.38	330.174		
1,400.00	1,373.17	2,164.24	2,150.51	5.97	7.86	-12.66	2,020.43	3,236.97	3,701.29	3,689.05	12.25	302.214		
1,500.00	1,465.21	2,219.20	2,204.02	6.69	8.11	-12.99	2,010.69	3,229.10	3,643.87	3,631.04	12.83	283.927		
1,600.00	1,555.84	2,269.05	2,252.64	7.47	8.34	-13.35	2,002.08	3,222.28	3,584.35	3,570.94	13.41	267.255		
1,700.00	1,644.94	2,358.71	2,340.20	8.31	8.75	-13.79	1,986.86	3,210.39	3,522.57	3,508.46	14.12	249.551		
1,800.00	1,732.39	2,522.82	2,499.88	9.23	9.53	-14.40	1,957.61	3,186.35	3,456.89	3,441.86	15.04	229.917		
1,900.00	1,818.11	2,572.00	2,547.55	10.21	9.77	-14.95	1,948.42	3,178.48	3,387.65	3,372.03	15.62	216.851		
2,000.00	1,901.97	2,634.53	2,608.24	11.26	10.08	-15.60	1,937.07	3,168.59	3,316.24	3,299.99	16.25	204.075		
2,100.00	1,983.88	2,671.39	2,644.14	12.38	10.25	-16.28	1,930.83	3,163.00	3,243.35	3,226.54	16.82	192.878		
2,200.00	2,063.74	2,707.58	2,679.46	13.57	10.43	-17.04	1,925.05	3,157.70	3,168.85	3,151.46	17.39	182.247		
2,300.00	2,141.45	2,761.00	2,731.75	14.84	10.69	-17.98	1,917.11	3,150.19	3,092.87	3,074.86	18.01	171.746		
2,327.78	2,162.65	2,761.00	2,731.75	15.21	10.69	-18.19	1,917.11	3,150.19	3,071.39	3,053.24	18.15	169.203		
2,400.00	2,217.51	2,785.09	2,755.37	16.17	10.80	-18.30	1,913.67	3,146.94	3,015.70	2,997.13	18.57	162.385		
2,500.00	2,293.49	2,835.13	2,804.45	17.51	11.04	-18.55	1,906.39	3,140.47	2,938.89	2,919.69	19.20	153.058		
2,600.00	2,369.47	2,930.62	2,898.05	18.86	11.49	-19.01	1,891.77	3,128.47	2,862.10	2,842.17	19.93	143.612		
2,700.00	2,445.45	3,000.22	2,966.10	20.22	11.83	-19.35	1,880.23	3,119.49	2,784.63	2,764.01	20.62	135.071		
2,800.00	2,521.42	3,108.28	3,071.56	21.59	12.36	-19.89	1,861.05	3,105.85	2,707.08	2,685.72	21.36	126.740		
2,900.00	2,597.40	3,207.25	3,167.75	22.97	12.86	-20.46	1,842.92	3,091.24	2,628.03	2,605.94	22.08	119.008		
3,000.00	2,673.38	3,277.01	3,235.44	24.34	13.22	-20.89	1,829.95	3,080.43	2,548.62	2,525.84	22.78	111.888		
3,100.00	2,749.36	3,352.42	3,308.56	25.73	13.61	-21.41	1,815.93	3,068.45	2,469.08	2,445.59	23.48	105.139		
3,200.00	2,825.33	3,200.00	3,374.39	27.11	12.81	-21.92	1,803.12	3,056.90	2,388.91	2,365.59	23.32	102.425		
3,300.00	2,901.31	3,466.78	3,419.20	28.50	14.22	-22.30	1,794.55	3,048.99	2,308.95	2,284.02	24.92	92.653		
3,400.00	2,977.29	3,515.00	3,466.03	29.90	14.47	-22.72	1,786.08	3,041.24	2,229.78	2,204.11	25.67	86.863		
3,500.00	3,053.27	3,585.65	3,534.64	31.29	14.84	-23.36	1,773.36	3,030.09	2,150.79	2,124.37	26.42	81.393		
3,600.00	3,129.24	3,639.76	3,587.02	32.69	15.13	-23.87	1,762.97	3,021.46	2,071.30	2,044.09	27.21	76.125		
3,700.00	3,205.22	3,679.16	3,625.27	34.08	15.33	-24.26	1,755.70	3,015.39	1,992.43	1,964.39	28.04	71.045		
3,800.00	3,281.20	3,732.61	3,677.28	35.48	15.61	-24.84	1,746.26	3,007.44	1,914.21	1,885.31	28.89	66.252		
3,900.00	3,357.18	3,806.64	3,749.22	36.88	16.00	-25.69	1,732.75	2,996.40	1,835.85	1,806.13	29.72	61.769		
4,000.00	3,433.15	3,853.68	3,794.94	38.29	16.24	-26.26	1,724.02	2,989.56	1,757.67	1,727.02	30.65	57.353		
4,100.00	3,509.13	3,904.08	3,843.97	39.69	16.50	-26.91	1,714.70	2,982.57	1,679.98	1,648.38	31.60	53.156		
4,200.00	3,585.11	3,954.19	3,892.80	41.09	16.76	-27.61	1,705.74	2,975.79	1,602.84	1,570.23	32.62	49.143		
4,300.00	3,661.08	4,007.30	3,944.65	42.50	17.03	-28.42	1,696.69	2,968.70	1,526.30	1,492.63	33.68	45.324		
4,400.00	3,737.06	4,064.97	4,001.01	43.90	17.32	-29.40	1,687.21	2,960.97	1,450.21	1,415.43	34.78	41.695		
4,500.00	3,813.04	4,122.45	4,057.24	45.31	17.61	-30.49	1,678.14	2,953.17	1,374.58	1,338.61	35.97	38.219		
4,600.00	3,889.02	4,183.19	4,116.70	46.71	17.91	-31.78	1,669.07	2,944.76	1,299.47	1,262.24	37.23	34.905		
4,700.00	3,964.99	4,275.00	4,206.35	48.12	18.37	-34.04	1,655.11	2,930.71	1,223.96	1,185.56	38.40	31.875		
4,800.00	4,040.97	4,335.00	4,264.78	49.53	18.68	-35.75	1,645.70	2,920.89	1,148.25	1,108.36	39.89	28.785		
4,900.00	4,116.95	4,401.71	4,329.72	50.94	19.03	-37.88	1,635.18	2,909.81	1,072.99	1,031.51	41.48	25.865		
5,000.00	4,192.93	4,474.62	4,400.52	52.35	19.42	-40.57	1,623.31	2,897.09	997.88	954.68	43.20	23.097		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,268.90	4,556.99	4,480.10	53.76	19.88	-44.11	1,608.53	2,881.81	922.47	877.46	45.01	20.493		
5,200.00	4,344.88	4,604.83	4,526.24	55.16	20.14	-46.47	1,599.66	2,872.83	847.82	800.32	47.50	17.848		
5,300.00	4,420.86	4,657.57	4,577.24	56.57	20.44	-49.37	1,590.25	2,863.19	775.15	724.83	50.32	15.405		
5,400.00	4,496.84	4,721.57	4,639.09	57.98	20.79	-53.35	1,578.57	2,851.63	704.26	650.83	53.44	13.179		
5,500.00	4,572.81	4,775.15	4,690.85	59.39	21.08	-57.13	1,568.50	2,842.12	635.71	578.43	57.27	11.100		
5,600.00	4,648.79	4,825.82	4,739.98	60.81	21.36	-61.10	1,559.40	2,833.74	571.26	509.43	61.83	9.239		
5,700.00	4,724.77	4,890.27	4,802.56	62.22	21.71	-66.79	1,548.00	2,823.36	511.65	444.74	66.91	7.647		
5,800.00	4,800.74	4,956.51	4,866.61	63.63	22.08	-73.49	1,535.61	2,811.90	457.59	384.85	72.74	6.291		
5,900.00	4,876.72	5,021.40	4,929.01	65.04	22.45	-80.90	1,522.48	2,799.84	411.54	332.45	79.09	5.203		
6,000.00	4,952.70	5,075.84	4,981.24	66.45	22.76	-87.65	1,511.15	2,789.52	377.66	292.35	85.31	4.427		
6,100.00	5,028.68	5,132.77	5,036.03	67.86	23.09	-95.00	1,499.63	2,779.17	360.06	270.45	89.61	4.018		
6,149.69	5,066.43	5,163.92	5,066.05	68.56	23.27	-99.06	1,493.30	2,773.83	357.87	267.32	90.56	3.952 CC, ES, SF		
6,200.00	5,104.65	5,196.02	5,097.03	69.27	23.45	-103.22	1,486.67	2,768.60	360.09	269.45	90.64	3.973		
6,300.00	5,180.63	5,256.84	5,155.72	70.69	23.79	-110.95	1,473.82	2,759.17	377.26	288.78	88.48	4.264		
6,400.00	5,256.61	5,315.49	5,212.21	72.10	24.12	-118.08	1,461.08	2,749.89	409.93	325.78	84.15	4.871		
6,500.00	5,332.59	5,376.16	5,270.78	73.51	24.46	-124.85	1,448.24	2,740.60	454.76	375.67	79.09	5.750		
6,600.00	5,408.56	5,436.14	5,328.86	74.92	24.80	-130.83	1,436.07	2,731.88	508.22	433.92	74.31	6.840		
6,700.00	5,484.54	5,493.16	5,383.96	76.34	25.11	-135.93	1,424.18	2,723.34	568.20	498.10	70.09	8.106		
6,800.00	5,560.52	5,552.16	5,440.95	77.75	25.44	-140.59	1,411.82	2,714.33	632.91	566.29	66.61	9.501		
6,900.00	5,636.50	5,613.09	5,499.90	79.16	25.78	-144.77	1,399.50	2,705.10	700.87	636.98	63.89	10.971		
7,000.00	5,712.47	5,676.58	5,561.40	80.57	26.13	-148.54	1,386.78	2,695.74	770.97	709.18	61.79	12.477		
7,100.00	5,788.45	5,736.71	5,619.69	81.99	26.46	-151.64	1,374.87	2,687.04	842.69	782.54	60.15	14.009		
7,200.00	5,864.43	5,794.66	5,675.92	83.40	26.77	-154.24	1,363.70	2,678.59	915.81	856.92	58.89	15.551		
7,300.00	5,940.40	5,847.43	5,727.14	84.81	27.06	-156.32	1,353.87	2,670.54	990.29	932.42	57.88	17.111		
7,400.00	6,016.38	5,906.59	5,784.58	86.23	27.38	-158.35	1,343.27	2,661.12	1,065.92	1,008.68	57.24	18.622		
7,500.00	6,092.36	5,973.94	5,850.10	87.64	27.74	-160.36	1,331.76	2,650.61	1,141.87	1,084.90	56.97	20.043		
7,600.00	6,168.34	6,033.86	5,908.36	89.05	28.06	-161.97	1,321.14	2,641.49	1,218.15	1,161.44	56.72	21.478		
7,700.00	6,244.31	6,120.96	5,993.00	90.47	28.52	-164.07	1,304.87	2,629.01	1,294.54	1,237.50	57.04	22.694		
7,800.00	6,320.29	6,248.13	6,117.78	91.88	29.14	-166.47	1,284.99	2,614.72	1,368.88	1,310.66	58.21	23.515		
7,900.00	6,396.27	6,324.74	6,193.41	93.30	29.49	-167.62	1,274.89	2,607.87	1,441.58	1,382.97	58.60	24.598		
8,000.00	6,472.25	6,389.59	6,257.52	94.71	29.77	-168.47	1,266.95	2,602.15	1,514.25	1,455.39	58.87	25.723		
8,100.00	6,548.22	6,461.37	6,328.54	96.12	30.08	-169.27	1,259.15	2,595.33	1,587.30	1,527.98	59.31	26.761		
8,200.00	6,624.20	6,539.71	6,406.07	97.54	30.59	-170.40	1,248.74	2,585.50	1,658.63	1,597.88	60.75	27.303		
8,300.00	6,700.18	6,618.72	6,484.76	98.95	30.92	-171.03	1,243.18	2,580.36	1,728.50	1,666.96	61.54	28.088		
8,400.00	6,776.16	6,758.50	6,562.32	100.37	31.20	-171.51	1,239.28	2,575.96	1,798.02	1,735.82	62.21	28.904		
8,500.00	6,852.13	6,846.92	6,712.55	101.78	31.51	-171.96	1,235.73	2,571.42	1,867.18	1,804.16	63.02	29.629		
8,600.00	6,928.11	6,948.80	6,814.31	103.20	31.84	-172.38	1,233.24	2,567.20	1,935.32	1,871.28	64.04	30.222		
8,700.00	7,004.09	7,034.95	6,900.40	104.61	32.11	-172.68	1,232.01	2,564.37	2,002.69	1,937.87	64.82	30.895		
8,800.00	7,080.06	7,112.60	6,978.02	106.02	32.35	-172.93	1,231.08	2,561.98	2,069.89	2,004.40	65.49	31.605		
8,900.00	7,156.04	7,217.38	7,082.76	107.44	32.67	-173.26	1,229.41	2,559.76	2,136.54	2,070.02	66.53	32.114		
9,000.00	7,232.02	7,325.31	7,190.68	108.85	32.97	-173.57	1,228.45	2,559.27	2,201.76	2,134.17	67.59	32.576		
9,104.68	7,311.55	7,642.57	7,502.36	110.33	33.54	-172.94	1,274.11	2,560.71	2,266.65	2,195.46	71.19	31.840		
9,150.00	7,346.29	8,479.90	7,905.52	110.97	32.31	-163.20	1,943.95	2,548.45	2,286.88	2,199.35	87.53	26.128		
9,200.00	7,385.15	8,489.29	7,905.82	111.65	32.29	-171.22	1,953.33	2,548.70	2,306.86	2,218.88	87.98	26.220		
9,250.00	7,424.29	8,487.11	7,905.75	112.31	32.30	-179.88	1,951.15	2,548.62	2,327.96	2,239.82	88.14	26.412		
9,300.00	7,463.40	8,486.60	7,905.74	112.93	32.30	171.39	1,950.64	2,548.61	2,349.95	2,261.59	88.37	26.593		
9,350.00	7,502.19	8,487.28	7,905.76	113.51	32.30	162.81	1,951.32	2,548.65	2,372.66	2,284.01	88.65	26.766		
9,400.00	7,540.36	8,477.10	7,905.43	114.04	32.31	154.24	1,941.15	2,548.38	2,395.90	2,307.25	88.65	27.028		
9,450.00	7,577.62	8,462.51	7,904.90	114.53	32.34	146.02	1,926.58	2,547.99	2,419.40	2,330.86	88.55	27.323		
9,500.00	7,613.70	8,443.75	7,904.15	114.95	32.37	138.27	1,907.83	2,547.50	2,442.92	2,354.56	88.36	27.648		
9,550.00	7,648.30	8,198.07	7,870.00	115.32	32.90	125.94	1,665.60	2,549.24	2,465.38	2,383.36	82.02	30.058		
9,600.00	7,681.18	8,187.55	7,866.52	115.63	32.93	119.97	1,655.69	2,549.54	2,486.24	2,404.09	82.15	30.265		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
9,650.00	7,712.08	8,167.74	7,859.48	115.88	32.97	114.43	1,637.17	2,550.05	2,506.21	2,424.13	82.08	30.533		
9,700.00	7,740.76	8,150.08	7,852.74	116.08	33.01	109.57	1,620.86	2,550.47	2,525.09	2,442.98	82.11	30.752		
9,750.00	7,767.01	8,112.96	7,837.21	116.23	33.08	104.91	1,587.15	2,551.28	2,542.66	2,460.95	81.70	31.121		
9,800.00	7,790.63	8,083.52	7,823.98	116.33	33.14	100.99	1,560.87	2,551.98	2,558.65	2,477.11	81.54	31.380		
9,850.00	7,811.44	8,060.93	7,813.20	116.38	33.19	97.75	1,541.02	2,552.47	2,573.02	2,491.42	81.60	31.533		
9,900.00	7,829.28	8,036.37	7,800.85	116.38	33.24	94.97	1,519.80	2,552.93	2,585.64	2,503.97	81.67	31.661		
9,950.00	7,844.01	8,010.25	7,786.84	116.35	33.29	92.63	1,497.76	2,553.36	2,596.37	2,514.62	81.76	31.757		
10,000.00	7,855.52	7,982.79	7,771.15	116.28	33.34	90.72	1,475.23	2,553.75	2,605.10	2,523.22	81.88	31.816		
10,050.00	7,863.72	7,954.66	7,754.11	116.18	33.39	89.22	1,452.85	2,554.10	2,611.72	2,529.67	82.05	31.831		
10,100.00	7,868.56	7,932.82	7,740.15	116.06	33.42	88.23	1,436.06	2,554.33	2,616.19	2,533.75	82.44	31.735		
10,145.94	7,870.00	7,913.42	7,727.13	115.92	33.45	87.68	1,421.68	2,554.45	2,618.40	2,535.52	82.87	31.596		
10,200.00	7,870.00	7,882.00	7,704.82	115.76	33.49	87.19	1,399.56	2,554.60	2,620.26	2,537.05	83.22	31.487		
10,300.00	7,870.00	7,777.18	7,621.47	115.46	33.56	85.37	1,336.27	2,557.01	2,624.78	2,541.90	82.88	31.668		
10,400.00	7,870.00	7,742.41	7,591.83	115.18	33.57	84.72	1,318.16	2,558.29	2,631.71	2,547.47	84.24	31.241		
10,500.00	7,870.00	7,717.00	7,569.66	114.91	33.57	84.24	1,305.77	2,559.14	2,641.86	2,556.00	85.85	30.771		
10,600.00	7,870.00	7,696.37	7,551.36	114.65	33.56	83.84	1,296.27	2,559.73	2,655.32	2,567.72	87.60	30.311		
10,700.00	7,870.00	7,670.00	7,527.57	114.41	33.56	83.32	1,284.91	2,560.32	2,672.19	2,582.93	89.25	29.940		
10,800.00	7,870.00	7,670.00	7,527.57	114.17	33.56	83.32	1,284.91	2,560.32	2,692.35	2,600.92	91.43	29.446		
10,900.00	7,870.00	7,650.60	7,509.78	113.95	33.55	82.94	1,277.15	2,560.62	2,715.84	2,622.64	93.20	29.141		
11,000.00	7,870.00	7,638.80	7,498.85	113.75	33.54	82.70	1,272.72	2,560.74	2,742.62	2,647.54	95.08	28.846		
11,100.00	7,870.00	7,622.00	7,483.15	113.55	33.53	82.36	1,266.76	2,560.84	2,772.62	2,675.80	96.82	28.636		
11,200.00	7,870.00	7,622.00	7,483.15	113.37	33.53	82.36	1,266.76	2,560.84	2,805.70	2,706.90	98.80	28.397		
11,300.00	7,870.00	7,622.00	7,483.15	113.20	33.53	82.36	1,266.76	2,560.84	2,841.92	2,741.22	100.70	28.221		
11,400.00	7,870.00	7,599.47	7,461.81	113.04	33.51	81.90	1,259.51	2,560.86	2,880.84	2,778.69	102.15	28.201		
11,500.00	7,870.00	7,591.54	7,454.24	112.89	33.50	81.74	1,257.18	2,560.86	2,922.69	2,818.92	103.77	28.165		
11,600.00	7,870.00	7,575.00	7,438.33	112.76	33.49	81.40	1,252.66	2,560.82	2,967.30	2,862.12	105.18	28.211		
11,700.00	7,870.00	7,575.00	7,438.33	112.64	33.49	81.40	1,252.66	2,560.82	3,014.40	2,907.65	106.75	28.239		
11,800.00	7,870.00	7,575.00	7,438.33	112.53	33.49	81.40	1,252.66	2,560.82	3,064.04	2,955.82	108.22	28.314		
11,900.00	7,870.00	7,575.00	7,438.33	112.44	33.49	81.40	1,252.66	2,560.82	3,116.10	3,006.50	109.60	28.432		
12,000.00	7,870.00	7,575.00	7,438.33	112.36	33.49	81.40	1,252.66	2,560.82	3,170.46	3,059.57	110.89	28.591		
12,100.00	7,870.00	7,555.70	7,419.60	112.29	33.46	80.99	1,247.96	2,560.70	3,226.72	3,114.85	111.87	28.844		
12,200.00	7,870.00	7,551.06	7,415.09	112.24	33.46	80.90	1,246.92	2,560.66	3,285.18	3,172.23	112.95	29.085		
12,300.00	7,870.00	7,546.71	7,410.84	112.20	33.45	80.81	1,245.97	2,560.61	3,345.58	3,231.62	113.96	29.357		
12,400.00	7,870.00	7,528.00	7,392.51	112.17	33.43	80.42	1,242.24	2,560.35	3,407.98	3,293.23	114.76	29.697		
12,500.00	7,870.00	7,528.00	7,392.51	112.16	33.43	80.42	1,242.24	2,560.35	3,471.89	3,356.21	115.68	30.013		
12,600.00	7,870.00	7,528.00	7,392.51	112.17	33.43	80.42	1,242.24	2,560.35	3,537.46	3,420.93	116.53	30.356		
12,700.00	7,870.00	7,528.00	7,392.51	112.19	33.43	80.42	1,242.24	2,560.35	3,604.62	3,487.30	117.32	30.724		
12,800.00	7,870.00	7,528.00	7,392.51	112.23	33.43	80.42	1,242.24	2,560.35	3,673.27	3,555.22	118.05	31.115		
12,900.00	7,870.00	7,528.00	7,392.51	112.28	33.43	80.42	1,242.24	2,560.35	3,743.34	3,624.61	118.73	31.528		
13,000.00	7,870.00	7,528.00	7,392.51	112.36	33.43	80.42	1,242.24	2,560.35	3,814.74	3,695.38	119.36	31.961		
13,100.00	7,870.00	7,528.00	7,392.51	112.45	33.43	80.42	1,242.24	2,560.35	3,887.40	3,767.47	119.93	32.413		
13,200.00	7,870.00	7,528.00	7,392.51	112.56	33.43	80.42	1,242.24	2,560.35	3,961.25	3,840.79	120.47	32.882		
13,300.00	7,870.00	7,509.69	7,374.48	112.68	33.40	80.03	1,239.06	2,560.05	4,036.03	3,915.21	120.82	33.404		
13,400.00	7,870.00	7,506.45	7,371.28	112.83	33.39	79.96	1,238.54	2,559.99	4,111.99	3,990.73	121.26	33.911		
13,500.00	7,870.00	7,503.35	7,368.23	113.00	33.39	79.90	1,238.05	2,559.93	4,188.96	4,067.29	121.66	34.431		
13,600.00	7,870.00	7,500.40	7,365.31	113.19	33.38	79.84	1,237.59	2,559.88	4,266.86	4,144.83	122.03	34.965		
13,700.00	7,870.00	7,481.00	7,346.11	113.40	33.35	79.43	1,234.87	2,559.52	4,345.83	4,223.56	122.27	35.543		
13,800.00	7,870.00	7,481.00	7,346.11	113.63	33.35	79.43	1,234.87	2,559.52	4,425.43	4,302.82	122.61	36.095		
13,900.00	7,870.00	7,481.00	7,346.11	113.89	33.35	79.43	1,234.87	2,559.52	4,505.84	4,382.93	122.92	36.658		
14,000.00	7,870.00	7,481.00	7,346.11	114.18	33.35	79.43	1,234.87	2,559.52	4,587.02	4,463.82	123.20	37.232		
14,100.00	7,870.00	7,481.00	7,346.11	114.48	33.35	79.43	1,234.87	2,559.52	4,668.94	4,545.47	123.46	37.816		
14,200.00	7,870.00	7,481.00	7,346.11	114.82	33.35	79.43	1,234.87	2,559.52	4,751.54	4,627.83	123.71	38.410		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
14,300.00	7,870.00	7,481.00	7,346.11	115.18	33.35	79.43	1,234.87	2,559.52	4,834.80	4,710.87	123.93	39.012		
14,400.00	7,870.00	7,481.00	7,346.11	115.57	33.35	79.43	1,234.87	2,559.52	4,918.69	4,794.55	124.14	39.624		
14,500.00	7,870.00	7,481.00	7,346.11	115.99	33.35	79.43	1,234.87	2,559.52	5,003.16	4,878.84	124.32	40.243		
14,600.00	7,870.00	7,481.00	7,346.11	116.44	33.35	79.43	1,234.87	2,559.52	5,088.20	4,963.71	124.50	40.870		
14,700.00	7,870.00	7,481.00	7,346.11	116.92	33.35	79.43	1,234.87	2,559.52	5,173.78	5,049.12	124.66	41.504		
14,800.00	7,870.00	7,481.00	7,346.11	117.44	33.35	79.43	1,234.87	2,559.52	5,259.86	5,135.06	124.80	42.145		
14,900.00	7,870.00	7,481.00	7,346.11	117.98	33.35	79.43	1,234.87	2,559.52	5,346.43	5,221.49	124.94	42.792		
15,000.00	7,870.00	7,481.00	7,346.11	118.56	33.35	79.43	1,234.87	2,559.52	5,433.46	5,308.40	125.06	43.446		
15,100.00	7,870.00	7,481.00	7,346.11	119.17	33.35	79.43	1,234.87	2,559.52	5,520.93	5,395.75	125.18	44.105		
15,200.00	7,870.00	7,481.00	7,346.11	119.81	33.35	79.43	1,234.87	2,559.52	5,608.82	5,483.54	125.28	44.770		
15,300.00	7,870.00	7,481.00	7,346.11	120.48	33.35	79.43	1,234.87	2,559.52	5,697.11	5,571.73	125.38	45.440		
15,400.00	7,870.00	7,481.00	7,346.11	121.19	33.35	79.43	1,234.87	2,559.52	5,785.78	5,660.31	125.47	46.115		
15,500.00	7,870.00	7,481.00	7,346.11	121.93	33.35	79.43	1,234.87	2,559.52	5,874.81	5,749.26	125.55	46.794		
15,600.00	7,870.00	7,481.00	7,346.11	122.71	33.35	79.43	1,234.87	2,559.52	5,964.19	5,838.57	125.62	47.478		
15,700.00	7,870.00	7,459.62	7,324.87	123.52	33.31	78.98	1,232.44	2,559.18	6,053.60	5,928.00	125.60	48.197		
15,800.00	7,870.00	7,458.39	7,323.64	124.36	33.30	78.96	1,232.32	2,559.16	6,143.60	6,017.94	125.66	48.890		
15,900.00	7,870.00	7,457.20	7,322.46	125.23	33.30	78.93	1,232.21	2,559.15	6,233.90	6,108.18	125.71	49.588		
16,000.00	7,870.00	7,456.05	7,321.32	126.14	33.30	78.91	1,232.10	2,559.14	6,324.48	6,198.72	125.76	50.289		
16,100.00	7,870.00	7,454.95	7,320.21	127.07	33.30	78.88	1,232.00	2,559.13	6,415.35	6,289.54	125.81	50.993		
16,200.00	7,870.00	7,453.87	7,319.15	128.04	33.29	78.86	1,231.90	2,559.12	6,506.48	6,380.63	125.85	51.701		
16,300.00	7,870.00	7,433.00	7,298.33	129.04	33.25	78.42	1,230.32	2,558.98	6,598.13	6,472.31	125.82	52.442		
16,400.00	7,870.00	7,433.00	7,298.33	130.06	33.25	78.42	1,230.32	2,558.98	6,689.73	6,563.88	125.86	53.154		
16,500.00	7,870.00	7,433.00	7,298.33	131.11	33.25	78.42	1,230.32	2,558.98	6,781.58	6,655.69	125.89	53.869		
16,600.00	7,870.00	7,433.00	7,298.33	132.19	33.25	78.42	1,230.32	2,558.98	6,873.65	6,747.73	125.92	54.587		
16,700.00	7,870.00	7,433.00	7,298.33	133.29	33.25	78.42	1,230.32	2,558.98	6,965.94	6,839.99	125.95	55.307		
16,800.00	7,870.00	7,433.00	7,298.33	134.42	33.25	78.42	1,230.32	2,558.98	7,058.44	6,932.46	125.98	56.030		
16,900.00	7,870.00	7,433.00	7,298.33	135.57	33.25	78.42	1,230.32	2,558.98	7,151.14	7,025.14	126.00	56.755		
17,000.00	7,870.00	7,433.00	7,298.33	136.75	33.25	78.42	1,230.32	2,558.98	7,244.04	7,118.02	126.02	57.483		
17,100.00	7,870.00	7,433.00	7,298.33	137.94	33.25	78.42	1,230.32	2,558.98	7,337.12	7,211.08	126.04	58.212		
17,200.00	7,870.00	7,433.00	7,298.33	139.16	33.25	78.42	1,230.32	2,558.98	7,430.39	7,304.33	126.06	58.944		
17,300.00	7,870.00	7,433.00	7,298.33	140.39	33.25	78.42	1,230.32	2,558.98	7,523.82	7,397.75	126.07	59.678		
17,400.00	7,870.00	7,433.00	7,298.33	141.65	33.25	78.42	1,230.32	2,558.98	7,617.43	7,491.34	126.09	60.414		
17,500.00	7,870.00	7,433.00	7,298.33	142.92	33.25	78.42	1,230.32	2,558.98	7,711.19	7,585.09	126.10	61.151		
17,600.00	7,870.00	7,433.00	7,298.33	144.21	33.25	78.42	1,230.32	2,558.98	7,805.11	7,679.00	126.11	61.891		
17,700.00	7,870.00	7,433.00	7,298.33	145.52	33.25	78.42	1,230.32	2,558.98	7,899.17	7,773.05	126.12	62.631		
17,800.00	7,870.00	7,433.00	7,298.33	146.84	33.25	78.42	1,230.32	2,558.98	7,993.39	7,867.26	126.13	63.374		
17,900.00	7,870.00	7,433.00	7,298.33	148.18	33.25	78.42	1,230.32	2,558.98	8,087.74	7,961.60	126.14	64.118		
18,000.00	7,870.00	7,433.00	7,298.33	149.54	33.25	78.42	1,230.32	2,558.98	8,182.22	8,056.08	126.15	64.863		
18,100.00	7,870.00	7,433.00	7,298.33	150.90	33.25	78.42	1,230.32	2,558.98	8,276.84	8,150.68	126.15	65.610		
18,200.00	7,870.00	7,433.00	7,298.33	152.28	33.25	78.42	1,230.32	2,558.98	8,371.58	8,245.42	126.16	66.358		
18,300.00	7,870.00	7,433.00	7,298.33	153.67	33.25	78.42	1,230.32	2,558.98	8,466.44	8,340.27	126.16	67.107		
18,400.00	7,870.00	7,433.00	7,298.33	155.07	33.25	78.42	1,230.32	2,558.98	8,561.41	8,435.25	126.17	67.858		
18,500.00	7,870.00	7,433.00	7,298.33	156.49	33.25	78.42	1,230.32	2,558.98	8,656.50	8,530.33	126.17	68.609		
18,600.00	7,870.00	7,433.00	7,298.33	157.91	33.25	78.42	1,230.32	2,558.98	8,751.70	8,625.53	126.17	69.362		
18,700.00	7,870.00	7,433.00	7,298.33	159.35	33.25	78.42	1,230.32	2,558.98	8,847.01	8,720.83	126.18	70.116		
18,800.00	7,870.00	7,433.00	7,298.33	160.79	33.25	78.42	1,230.32	2,558.98	8,942.42	8,816.24	126.18	70.870		
18,900.00	7,870.00	7,433.00	7,298.33	162.25	33.25	78.42	1,230.32	2,558.98	9,037.93	8,911.74	126.18	71.626		
19,000.00	7,870.00	7,433.00	7,298.33	163.71	33.25	78.42	1,230.32	2,558.98	9,133.53	9,007.34	126.19	72.382		
19,100.00	7,870.00	7,433.00	7,298.33	165.18	33.25	78.42	1,230.32	2,558.98	9,229.23	9,103.04	126.19	73.139		
19,200.00	7,870.00	7,433.00	7,298.33	166.66	33.25	78.42	1,230.32	2,558.98	9,325.01	9,198.83	126.19	73.897		
19,300.00	7,870.00	7,433.00	7,298.33	168.15	33.25	78.42	1,230.32	2,558.98	9,420.89	9,294.70	126.19	74.656		
19,400.00	7,870.00	7,433.00	7,298.33	169.65	33.25	78.42	1,230.32	2,558.98	9,516.85	9,390.66	126.19	75.415		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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
19,500.00	7,870.00	7,433.00	7,298.33	171.15	33.25	78.42	1,230.32	2,558.98	9,612.89	9,486.70	126.19	76.175	
19,600.00	7,870.00	7,433.00	7,298.33	172.66	33.25	78.42	1,230.32	2,558.98	9,709.01	9,582.82	126.20	76.936	
19,700.00	7,870.00	7,433.00	7,298.33	174.18	33.25	78.42	1,230.32	2,558.98	9,805.21	9,679.02	126.20	77.697	
19,800.00	7,870.00	7,433.00	7,298.33	175.70	33.25	78.42	1,230.32	2,558.98	9,901.49	9,775.29	126.20	78.459	
19,889.26	7,870.00	7,433.00	7,298.33	177.06	33.25	78.42	1,230.32	2,558.98	9,987.48	9,861.28	126.20	79.139	

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 3N-11HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance		Warning								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	57.93	2,113.10	3,372.06	3,979.62					
100.00	100.00	52.12	52.12	0.13	0.10	57.93	2,113.11	3,372.11	3,979.50	3,979.27	0.23	N/A		
200.00	200.00	125.00	125.00	0.49	0.36	57.93	2,113.17	3,372.62	3,980.14	3,979.28	0.85	4,669.961		
300.00	300.00	196.16	196.15	0.85	0.61	57.93	2,113.46	3,373.56	3,981.47	3,980.01	1.47	2,715.605		
400.00	399.98	291.74	291.72	1.21	0.96	-10.21	2,114.31	3,375.12	3,981.60	3,979.44	2.16	1,841.964		
500.00	499.84	445.99	445.95	1.56	1.51	-10.24	2,114.98	3,376.87	3,977.69	3,974.62	3.07	1,296.053		
600.00	599.45	569.03	568.99	1.93	1.93	-10.30	2,114.79	3,377.00	3,969.09	3,965.24	3.85	1,029.900		
700.00	698.70	679.43	679.39	2.32	2.30	-10.38	2,115.03	3,376.57	3,956.90	3,952.30	4.59	861.363		
800.00	797.47	801.64	801.59	2.72	2.72	-10.50	2,115.04	3,375.46	3,940.74	3,935.36	5.38	732.356		
900.00	895.62	880.77	880.72	3.16	2.99	-10.62	2,114.89	3,374.69	3,921.09	3,915.06	6.03	650.587		
1,000.00	993.06	970.59	970.54	3.63	3.30	-10.77	2,115.18	3,374.20	3,898.68	3,891.96	6.72	580.360		
1,100.00	1,089.64	1,099.43	1,099.37	4.14	3.75	-10.99	2,115.70	3,372.69	3,872.49	3,864.94	7.55	512.866		
1,200.00	1,185.27	1,174.39	1,174.33	4.70	4.02	-11.18	2,115.48	3,371.84	3,842.72	3,834.51	8.20	468.488		
1,300.00	1,279.82	1,196.71	1,193.79	5.31	6.82	-11.94	2,062.39	3,315.63	3,797.55	3,786.42	11.12	341.388		
1,400.00	1,373.17	1,997.48	1,990.28	5.97	7.07	-12.16	2,051.41	3,309.85	3,746.27	3,734.54	11.73	319.451		
1,500.00	1,465.21	2,126.48	2,116.18	6.69	7.62	-12.34	2,025.54	3,298.92	3,691.90	3,679.35	12.56	294.046		
1,600.00	1,555.84	2,183.76	2,171.99	7.47	7.86	-12.60	2,013.59	3,294.17	3,634.45	3,621.29	13.16	276.110		
1,700.00	1,644.94	2,266.91	2,253.10	8.31	8.23	-12.88	1,996.55	3,287.46	3,574.56	3,560.70	13.86	257.920		
1,800.00	1,732.39	2,336.34	2,320.78	9.23	8.54	-13.21	1,982.08	3,281.90	3,511.89	3,497.37	14.52	241.908		
1,900.00	1,818.11	2,387.00	2,370.25	10.21	8.77	-13.60	1,971.95	3,277.82	3,446.96	3,431.84	15.12	227.922		
2,000.00	1,901.97	2,442.78	2,424.82	11.26	9.02	-14.05	1,961.24	3,273.46	3,379.96	3,364.21	15.75	214.582		
2,100.00	1,983.88	2,490.84	2,471.92	12.38	9.23	-14.55	1,952.38	3,269.91	3,311.02	3,294.66	16.36	202.362		
2,200.00	2,063.74	2,537.97	2,518.18	13.57	9.44	-15.11	1,944.01	3,266.62	3,240.18	3,223.21	16.98	190.872		
2,300.00	2,141.45	2,573.00	2,552.61	14.84	9.60	-15.73	1,937.99	3,264.29	3,167.53	3,149.96	17.56	180.338		
2,327.78	2,162.65	2,595.87	2,575.11	15.21	9.70	-15.94	1,934.17	3,262.83	3,146.98	3,129.22	17.77	177.133		
2,400.00	2,217.51	2,627.59	2,606.35	16.17	9.84	-16.01	1,929.03	3,260.86	3,093.62	3,075.41	18.21	169.896		
2,500.00	2,293.49	2,672.11	2,650.26	17.51	10.03	-16.11	1,922.13	3,258.24	3,020.17	3,001.34	18.84	160.346		
2,600.00	2,369.47	2,717.33	2,694.92	18.86	10.23	-16.23	1,915.51	3,255.74	2,947.25	2,927.77	19.48	151.300		
2,700.00	2,445.45	2,767.56	2,744.60	20.22	10.44	-16.36	1,908.59	3,253.14	2,874.88	2,854.73	20.15	142.676		
2,800.00	2,521.42	2,877.26	2,853.15	21.59	10.91	-16.73	1,894.31	3,246.29	2,802.22	2,781.28	20.94	133.832		
2,900.00	2,597.40	2,976.64	2,951.34	22.97	11.34	-17.11	1,881.15	3,238.47	2,728.52	2,706.82	21.70	125.724		
3,000.00	2,673.38	3,049.34	3,023.05	24.34	11.66	-17.37	1,870.48	3,232.97	2,654.53	2,632.10	22.43	118.360		
3,100.00	2,749.36	3,099.13	3,072.15	25.73	11.88	-17.55	1,863.03	3,229.50	2,580.75	2,557.62	23.14	111.537		
3,200.00	2,825.33	3,148.53	3,120.90	27.11	12.10	-17.74	1,855.75	3,226.28	2,507.38	2,483.52	23.86	105.072		
3,300.00	2,901.31	3,192.74	3,164.61	28.50	12.29	-17.92	1,849.69	3,223.57	2,434.63	2,410.03	24.60	98.957		
3,400.00	2,977.29	3,309.33	3,279.97	29.90	12.79	-18.48	1,834.64	3,215.94	2,362.32	2,336.93	25.39	93.048		
3,500.00	3,053.27	3,426.20	3,395.19	31.29	13.31	-19.14	1,818.52	3,204.80	2,287.60	2,261.45	26.15	87.474		
3,600.00	3,129.24	3,479.03	3,447.23	32.69	13.55	-19.48	1,811.39	3,199.27	2,212.67	2,185.74	26.93	82.165		
3,700.00	3,205.22	3,552.99	3,520.14	34.08	13.88	-19.98	1,801.53	3,191.73	2,138.01	2,110.30	27.71	77.150		
3,800.00	3,281.20	3,634.78	3,600.65	35.48	14.25	-20.59	1,790.15	3,182.74	2,062.73	2,034.23	28.50	72.386		
3,900.00	3,357.18	3,700.58	3,665.38	36.88	14.55	-21.12	1,780.91	3,175.38	1,987.39	1,958.07	29.31	67.800		
4,000.00	3,433.15	3,801.31	3,764.23	38.29	15.02	-21.97	1,765.37	3,163.90	1,911.47	1,881.40	30.07	63.574		
4,100.00	3,509.13	3,860.95	3,822.63	39.69	15.31	-22.48	1,755.28	3,157.24	1,835.16	1,804.24	30.92	59.354		
4,200.00	3,585.11	3,913.31	3,873.89	41.09	15.56	-22.95	1,746.16	3,151.68	1,759.05	1,727.23	31.82	55.284		
4,300.00	3,661.08	3,959.32	3,919.02	42.50	15.78	-23.38	1,738.39	3,147.19	1,683.65	1,650.87	32.78	51.364		
4,400.00	3,737.06	4,020.35	3,978.96	43.90	16.07	-23.99	1,728.28	3,141.75	1,608.89	1,575.17	33.72	47.710		
4,500.00	3,813.04	4,085.74	4,043.09	45.31	16.37	-24.67	1,716.81	3,136.22	1,534.09	1,499.41	34.67	44.245		
4,600.00	3,889.02	4,131.19	4,087.72	46.71	16.59	-25.16	1,708.85	3,132.85	1,459.93	1,424.16	35.77	40.816		
4,700.00	3,964.99	4,183.79	4,139.46	48.12	16.83	-25.76	1,700.00	3,129.58	1,386.78	1,349.90	36.88	37.599		
4,800.00	4,040.97	4,259.81	4,214.32	49.53	17.18	-26.78	1,687.84	3,124.28	1,313.77	1,275.85	37.92	34.649		
4,900.00	4,116.95	4,374.01	4,326.44	50.94	17.72	-28.68	1,669.27	3,113.25	1,239.47	1,200.77	38.71	32.022		
5,000.00	4,192.93	4,444.68	4,395.55	52.35	18.06	-30.05	1,656.75	3,105.42	1,164.11	1,124.23	39.87	29.197		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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)	Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,268.90	4,501.39	4,450.97	53.76	18.34	-31.29	1,646.48	3,099.09	1,088.79	1,047.53	41.26	26.386		
5,200.00	4,344.88	4,562.10	4,510.38	55.16	18.64	-32.78	1,635.90	3,092.51	1,014.27	971.52	42.75	23.725		
5,300.00	4,420.86	4,642.66	4,589.03	56.57	19.04	-35.03	1,620.84	3,083.71	939.55	895.44	44.11	21.302		
5,400.00	4,496.84	4,693.70	4,638.83	57.98	19.30	-36.66	1,611.09	3,078.22	865.21	819.17	46.05	18.790		
5,500.00	4,572.81	4,748.93	4,692.86	59.39	19.57	-38.69	1,601.18	3,072.55	792.29	744.09	48.20	16.437		
5,600.00	4,648.79	4,811.01	4,753.70	60.81	19.87	-41.38	1,590.69	3,065.92	720.59	669.98	50.60	14.240		
5,700.00	4,724.77	4,882.66	4,823.87	62.22	20.22	-45.11	1,578.65	3,057.90	649.94	596.68	53.26	12.204		
5,800.00	4,800.74	4,952.08	4,891.62	63.63	20.57	-49.36	1,565.52	3,050.37	579.91	523.51	56.40	10.282		
5,900.00	4,876.72	5,015.18	4,953.14	65.04	20.89	-53.98	1,553.23	3,043.72	511.88	451.51	60.38	8.478		
6,000.00	4,952.70	5,076.83	5,013.28	66.45	21.20	-59.37	1,541.17	3,037.49	447.07	381.77	65.30	6.846		
6,100.00	5,028.68	5,138.61	5,073.61	67.86	21.51	-65.79	1,529.16	3,031.63	387.13	315.79	71.33	5.427		
6,200.00	5,104.65	5,200.46	5,134.07	69.27	21.82	-73.38	1,517.43	3,026.04	334.62	256.12	78.50	4.263		
6,300.00	5,180.63	5,264.38	5,196.65	70.69	22.13	-82.43	1,505.58	3,020.65	293.21	207.17	86.05	3.408		
6,400.00	5,256.61	5,330.15	5,261.11	72.10	22.45	-92.73	1,493.48	3,015.67	267.47	175.45	92.02	2.907		
6,479.06	5,316.68	5,383.48	5,313.39	73.21	22.70	-101.46	1,483.61	3,012.11	260.93	167.13	93.80	2.782	CC, ES, SF	
6,500.00	5,332.59	5,397.73	5,327.37	73.51	22.77	-103.81	1,480.96	3,011.23	261.39	167.69	93.70	2.790		
6,600.00	5,408.56	5,462.42	5,390.77	74.92	23.09	-114.26	1,468.88	3,006.97	276.30	186.01	90.29	3.060		
6,700.00	5,484.54	5,528.57	5,455.58	76.34	23.40	-124.16	1,456.49	3,002.28	309.57	225.82	83.74	3.697		
6,800.00	5,560.52	5,596.86	5,522.59	77.75	23.73	-132.98	1,444.03	2,998.07	355.46	278.55	76.92	4.621		
6,900.00	5,636.50	5,662.32	5,586.91	79.16	24.04	-140.07	1,432.45	2,994.17	409.87	338.70	71.18	5.759		
7,000.00	5,712.47	5,727.91	5,651.40	80.57	24.35	-145.95	1,421.21	2,990.12	469.98	403.21	66.77	7.039		
7,100.00	5,788.45	5,790.81	5,713.28	81.99	24.64	-150.59	1,410.75	2,986.05	533.90	470.40	63.50	8.408		
7,200.00	5,864.43	5,845.97	5,767.48	83.40	24.91	-154.04	1,401.41	2,981.66	601.23	540.26	60.97	9.861		
7,300.00	5,940.40	5,903.14	5,823.50	84.81	25.19	-157.12	1,391.45	2,976.19	671.35	612.22	59.13	11.354		
7,400.00	6,016.38	5,961.99	5,881.09	86.23	25.48	-159.84	1,380.98	2,970.11	743.25	685.40	57.85	12.848		
7,500.00	6,092.36	6,039.49	5,957.03	87.64	25.85	-162.81	1,367.57	2,962.43	815.76	758.35	57.40	14.211		
7,600.00	6,168.34	6,120.68	6,036.89	89.05	26.24	-165.30	1,354.60	2,955.61	887.79	830.41	57.39	15.471		
7,700.00	6,244.31	6,187.26	6,102.54	90.47	26.55	-166.99	1,344.67	2,950.69	959.50	902.23	57.27	16.754		
7,800.00	6,320.29	6,244.17	6,158.64	91.88	26.81	-168.24	1,336.27	2,946.01	1,032.12	975.02	57.10	18.075		
7,900.00	6,396.27	6,313.17	6,226.59	93.30	27.13	-169.60	1,325.80	2,940.17	1,105.25	1,047.92	57.33	19.280		
8,000.00	6,472.25	6,398.39	6,310.53	94.71	27.52	-171.08	1,312.64	2,933.68	1,178.16	1,120.18	57.99	20.317		
8,100.00	6,548.22	6,493.37	6,404.43	96.12	27.94	-172.42	1,299.52	2,928.11	1,249.80	1,190.87	58.93	21.209		
8,200.00	6,624.20	6,589.68	6,499.94	97.54	28.34	-173.53	1,287.74	2,924.11	1,320.14	1,260.21	59.92	22.031		
8,300.00	6,700.18	6,690.62	6,600.29	98.95	28.74	-174.47	1,277.24	2,921.54	1,389.11	1,328.09	61.02	22.764		
8,400.00	6,776.16	6,782.57	6,691.86	100.37	29.09	-175.18	1,268.99	2,920.57	1,456.81	1,394.85	61.96	23.514		
8,500.00	6,852.13	6,856.67	6,765.77	101.78	29.36	-175.63	1,263.59	2,919.97	1,524.03	1,461.45	62.58	24.354		
8,600.00	6,928.11	6,934.83	6,843.82	103.20	29.63	-175.97	1,259.85	2,918.47	1,591.47	1,528.17	63.30	25.142		
8,700.00	7,004.09	7,032.08	6,941.03	104.61	29.94	-176.26	1,257.50	2,917.15	1,657.92	1,593.57	64.35	25.762		
8,800.00	7,080.06	7,111.51	7,020.44	106.02	30.19	-176.44	1,256.45	2,916.27	1,723.99	1,658.89	65.10	26.483		
8,900.00	7,156.04	7,505.64	7,402.33	107.44	30.88	-174.30	1,332.50	2,914.23	1,789.66	1,719.41	70.25	25.476		
9,000.00	7,232.02	8,188.79	7,771.39	108.85	30.50	-157.98	1,871.16	2,924.78	1,833.32	1,748.64	84.68	21.650		
9,104.68	7,311.55	8,224.64	7,774.19	110.33	30.52	-156.86	1,906.90	2,925.75	1,870.56	1,784.49	86.07	21.733		
9,150.00	7,346.29	8,236.91	7,774.93	110.97	30.52	-163.62	1,919.13	2,926.03	1,888.24	1,801.69	86.55	21.818		
9,200.00	7,385.15	8,245.61	7,775.38	111.65	30.53	-171.72	1,927.82	2,926.21	1,909.03	1,822.08	86.95	21.955		
9,250.00	7,424.29	8,249.65	7,775.58	112.31	30.53	179.68	1,931.86	2,926.29	1,931.04	1,843.81	87.23	22.136		
9,300.00	7,463.40	8,249.44	7,775.57	112.93	30.53	170.82	1,931.65	2,926.29	1,954.09	1,866.68	87.41	22.355		
9,350.00	7,502.19	8,245.38	7,775.37	113.51	30.53	161.92	1,927.59	2,926.21	1,977.97	1,890.47	87.49	22.607		
9,400.00	7,540.36	8,237.83	7,774.98	114.04	30.52	153.20	1,920.05	2,926.05	2,002.44	1,914.95	87.50	22.886		
9,450.00	7,577.62	8,227.14	7,774.35	114.53	30.52	144.83	1,909.38	2,925.81	2,027.27	1,939.84	87.43	23.187		
9,500.00	7,613.70	8,213.63	7,773.43	114.95	30.51	136.95	1,895.91	2,925.48	2,052.18	1,964.86	87.32	23.503		
9,550.00	7,648.30	8,197.63	7,772.16	115.32	30.50	129.63	1,879.97	2,925.05	2,076.92	1,989.75	87.17	23.826		
9,600.00	7,681.18	8,179.44	7,770.50	115.63	30.50	122.92	1,861.86	2,924.49	2,101.24	2,014.23	87.01	24.150		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
9,650.00	7,712.08	8,163.62	7,768.79	115.88	30.51	116.94	1,846.14	2,923.94	2,124.90	2,037.91	86.99	24.427		
9,700.00	7,740.76	8,147.69	7,766.70	116.08	30.51	111.59	1,830.36	2,923.28	2,147.71	2,060.68	87.03	24.678		
9,750.00	7,767.01	8,126.12	7,763.28	116.23	30.51	106.75	1,809.09	2,922.23	2,169.49	2,082.55	86.94	24.953		
9,800.00	7,790.63	8,063.86	7,750.21	116.33	30.55	101.73	1,748.30	2,919.50	2,189.65	2,104.11	85.54	25.598		
9,850.00	7,811.44	8,016.18	7,736.18	116.38	30.58	97.63	1,702.78	2,918.01	2,207.69	2,122.97	84.73	26.057		
9,900.00	7,829.28	7,992.00	7,727.46	116.38	30.60	94.51	1,680.23	2,917.34	2,223.87	2,139.09	84.78	26.232		
9,950.00	7,844.01	7,966.66	7,717.21	116.35	30.62	91.87	1,657.07	2,916.57	2,238.19	2,153.33	84.87	26.373		
10,000.00	7,855.52	7,952.02	7,710.82	116.28	30.63	89.87	1,643.91	2,916.06	2,250.63	2,165.25	85.38	26.359		
10,050.00	7,863.72	7,879.96	7,675.13	116.18	30.69	87.39	1,581.39	2,913.94	2,260.66	2,176.55	84.11	26.876		
10,100.00	7,868.56	7,840.45	7,653.15	116.06	30.73	85.89	1,548.57	2,913.35	2,268.01	2,184.02	83.99	27.003		
10,145.94	7,870.00	7,816.82	7,639.28	115.92	30.75	85.09	1,529.43	2,912.99	2,272.68	2,188.34	84.35	26.944		
10,200.00	7,870.00	7,785.89	7,620.31	115.76	30.78	84.62	1,505.01	2,912.47	2,277.39	2,192.67	84.71	26.883		
10,300.00	7,870.00	7,688.46	7,553.63	115.46	30.86	82.94	1,434.13	2,912.50	2,287.20	2,202.97	84.23	27.153		
10,400.00	7,870.00	7,652.02	7,525.71	115.18	30.88	82.25	1,410.75	2,913.16	2,299.39	2,213.69	85.70	26.831		
10,500.00	7,870.00	7,614.00	7,495.26	114.91	30.89	81.48	1,387.99	2,913.84	2,314.85	2,227.68	87.17	26.557		
10,600.00	7,870.00	7,588.53	7,474.21	114.65	30.89	80.96	1,373.66	2,914.25	2,333.69	2,244.69	89.00	26.221		
10,700.00	7,870.00	7,567.00	7,456.03	114.41	30.89	80.51	1,362.13	2,914.53	2,356.06	2,265.12	90.94	25.908		
10,800.00	7,870.00	7,550.12	7,441.52	114.17	30.89	80.15	1,353.50	2,914.64	2,382.00	2,289.04	92.96	25.624		
10,900.00	7,870.00	7,535.88	7,429.12	113.95	30.89	79.84	1,346.50	2,914.61	2,411.50	2,316.51	94.99	25.386		
11,000.00	7,870.00	7,519.00	7,414.24	113.75	30.88	79.48	1,338.55	2,914.43	2,444.48	2,347.59	96.89	25.229		
11,100.00	7,870.00	7,504.19	7,401.02	113.55	30.88	79.16	1,331.85	2,914.21	2,480.75	2,381.99	98.76	25.119		
11,200.00	7,870.00	7,485.03	7,383.76	113.37	30.87	78.73	1,323.56	2,913.94	2,520.14	2,419.69	100.44	25.090		
11,300.00	7,870.00	7,472.00	7,371.90	113.20	30.87	78.45	1,318.16	2,913.77	2,562.53	2,460.36	102.17	25.080		
11,400.00	7,870.00	7,445.90	7,347.91	113.04	30.85	77.86	1,307.88	2,913.50	2,607.74	2,504.19	103.54	25.185		
11,500.00	7,870.00	7,425.00	7,328.49	112.89	30.84	77.39	1,300.18	2,913.41	2,655.68	2,550.74	104.94	25.307		
11,600.00	7,870.00	7,425.00	7,328.49	112.76	30.84	77.39	1,300.18	2,913.41	2,706.31	2,599.68	106.62	25.383		
11,700.00	7,870.00	7,402.75	7,307.58	112.64	30.81	76.89	1,292.56	2,913.41	2,759.36	2,651.56	107.80	25.596		
11,800.00	7,870.00	7,378.00	7,284.04	112.53	30.79	76.32	1,284.92	2,913.51	2,815.02	2,706.14	108.88	25.855		
11,900.00	7,870.00	7,378.00	7,284.04	112.44	30.79	76.32	1,284.92	2,913.51	2,872.76	2,762.51	110.25	26.057		
12,000.00	7,870.00	7,378.00	7,284.04	112.36	30.79	76.32	1,284.92	2,913.51	2,932.77	2,821.26	111.52	26.299		
12,100.00	7,870.00	7,378.00	7,284.04	112.29	30.79	76.32	1,284.92	2,913.51	2,994.93	2,882.24	112.69	26.577		
12,200.00	7,870.00	7,358.77	7,265.57	112.24	30.77	75.88	1,279.55	2,913.64	3,058.86	2,945.35	113.51	26.949		
12,300.00	7,870.00	7,351.88	7,258.93	112.20	30.76	75.72	1,277.75	2,913.69	3,124.71	3,010.29	114.42	27.309		
12,400.00	7,870.00	7,331.00	7,238.68	112.17	30.73	75.24	1,272.65	2,913.84	3,192.40	3,077.31	115.09	27.738		
12,500.00	7,870.00	7,331.00	7,238.68	112.16	30.73	75.24	1,272.65	2,913.84	3,261.50	3,145.55	115.95	28.129		
12,600.00	7,870.00	7,331.00	7,238.68	112.17	30.73	75.24	1,272.65	2,913.84	3,332.17	3,215.44	116.74	28.545		
12,700.00	7,870.00	7,331.00	7,238.68	112.19	30.73	75.24	1,272.65	2,913.84	3,404.31	3,286.86	117.46	28.983		
12,800.00	7,870.00	7,331.00	7,238.68	112.23	30.73	75.24	1,272.65	2,913.84	3,477.83	3,359.71	118.12	29.444		
12,900.00	7,870.00	7,331.00	7,238.68	112.28	30.73	75.24	1,272.65	2,913.84	3,552.64	3,433.92	118.72	29.924		
13,000.00	7,870.00	7,331.00	7,238.68	112.36	30.73	75.24	1,272.65	2,913.84	3,628.67	3,509.39	119.28	30.422		
13,100.00	7,870.00	7,331.00	7,238.68	112.45	30.73	75.24	1,272.65	2,913.84	3,705.83	3,586.05	119.78	30.938		
13,200.00	7,870.00	7,309.96	7,218.12	112.56	30.69	74.75	1,268.18	2,914.02	3,783.72	3,663.65	120.06	31.514		
13,300.00	7,870.00	7,306.82	7,215.04	112.68	30.69	74.68	1,267.58	2,914.06	3,862.84	3,742.37	120.47	32.065		
13,400.00	7,870.00	7,303.85	7,212.12	112.83	30.68	74.61	1,267.03	2,914.09	3,942.90	3,822.05	120.84	32.629		
13,500.00	7,870.00	7,284.00	7,192.55	113.00	30.65	74.14	1,263.72	2,914.35	4,024.07	3,903.01	121.05	33.242		
13,600.00	7,870.00	7,284.00	7,192.55	113.19	30.65	74.14	1,263.72	2,914.35	4,105.76	3,984.37	121.39	33.822		
13,700.00	7,870.00	7,284.00	7,192.55	113.40	30.65	74.14	1,263.72	2,914.35	4,188.25	4,066.55	121.70	34.414		
13,800.00	7,870.00	7,284.00	7,192.55	113.63	30.65	74.14	1,263.72	2,914.35	4,271.49	4,149.51	121.98	35.017		
13,900.00	7,870.00	7,284.00	7,192.55	113.89	30.65	74.14	1,263.72	2,914.35	4,355.44	4,233.19	122.24	35.629		
14,000.00	7,870.00	7,284.00	7,192.55	114.18	30.65	74.14	1,263.72	2,914.35	4,440.05	4,317.57	122.48	36.251		
14,100.00	7,870.00	7,284.00	7,192.55	114.48	30.65	74.14	1,263.72	2,914.35	4,525.28	4,402.59	122.70	36.881		
14,200.00	7,870.00	7,284.00	7,192.55	114.82	30.65	74.14	1,263.72	2,914.35	4,611.11	4,488.22	122.90	37.520		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
14,300.00	7,870.00	7,284.00	7,192.55	115.18	30.65	74.14	1,263.72	2,914.35	4,697.51	4,574.43	123.08	38.166		
14,400.00	7,870.00	7,284.00	7,192.55	115.57	30.65	74.14	1,263.72	2,914.35	4,784.43	4,661.18	123.25	38.820		
14,500.00	7,870.00	7,284.00	7,192.55	115.99	30.65	74.14	1,263.72	2,914.35	4,871.85	4,748.45	123.40	39.480		
14,600.00	7,870.00	7,284.00	7,192.55	116.44	30.65	74.14	1,263.72	2,914.35	4,959.75	4,836.21	123.54	40.147		
14,700.00	7,870.00	7,284.00	7,192.55	116.92	30.65	74.14	1,263.72	2,914.35	5,048.10	4,924.43	123.67	40.820		
14,800.00	7,870.00	7,284.00	7,192.55	117.44	30.65	74.14	1,263.72	2,914.35	5,136.87	5,013.09	123.78	41.499		
14,900.00	7,870.00	7,284.00	7,192.55	117.98	30.65	74.14	1,263.72	2,914.35	5,226.05	5,102.16	123.89	42.183		
15,000.00	7,870.00	7,284.00	7,192.55	118.56	30.65	74.14	1,263.72	2,914.35	5,315.62	5,191.63	123.99	42.872		
15,100.00	7,870.00	7,284.00	7,192.55	119.17	30.65	74.14	1,263.72	2,914.35	5,405.55	5,281.48	124.08	43.566		
15,200.00	7,870.00	7,284.00	7,192.55	119.81	30.65	74.14	1,263.72	2,914.35	5,495.83	5,371.67	124.16	44.264		
15,300.00	7,870.00	7,284.00	7,192.55	120.48	30.65	74.14	1,263.72	2,914.35	5,586.45	5,462.21	124.23	44.967		
15,400.00	7,870.00	7,284.00	7,192.55	121.19	30.65	74.14	1,263.72	2,914.35	5,677.37	5,553.07	124.30	45.674		
15,500.00	7,870.00	7,284.00	7,192.55	121.93	30.65	74.14	1,263.72	2,914.35	5,768.60	5,644.23	124.36	46.385		
15,600.00	7,870.00	7,284.00	7,192.55	122.71	30.65	74.14	1,263.72	2,914.35	5,860.11	5,735.69	124.42	47.099		
15,700.00	7,870.00	7,284.00	7,192.55	123.52	30.65	74.14	1,263.72	2,914.35	5,951.90	5,827.43	124.47	47.817		
15,800.00	7,870.00	7,284.00	7,192.55	124.36	30.65	74.14	1,263.72	2,914.35	6,043.95	5,919.43	124.52	48.538		
15,900.00	7,870.00	7,284.00	7,192.55	125.23	30.65	74.14	1,263.72	2,914.35	6,136.24	6,011.68	124.56	49.263		
16,000.00	7,870.00	7,284.00	7,192.55	126.14	30.65	74.14	1,263.72	2,914.35	6,228.78	6,104.17	124.60	49.990		
16,100.00	7,870.00	7,284.00	7,192.55	127.07	30.65	74.14	1,263.72	2,914.35	6,321.54	6,196.90	124.64	50.720		
16,200.00	7,870.00	7,284.00	7,192.55	128.04	30.65	74.14	1,263.72	2,914.35	6,414.52	6,289.85	124.67	51.453		
16,300.00	7,870.00	7,284.00	7,192.55	129.04	30.65	74.14	1,263.72	2,914.35	6,507.70	6,383.01	124.70	52.188		
16,400.00	7,870.00	7,284.00	7,192.55	130.06	30.65	74.14	1,263.72	2,914.35	6,601.09	6,476.37	124.72	52.926		
16,500.00	7,870.00	7,284.00	7,192.55	131.11	30.65	74.14	1,263.72	2,914.35	6,694.67	6,569.92	124.75	53.666		
16,600.00	7,870.00	7,284.00	7,192.55	132.19	30.65	74.14	1,263.72	2,914.35	6,788.43	6,663.66	124.77	54.409		
16,700.00	7,870.00	7,284.00	7,192.55	133.29	30.65	74.14	1,263.72	2,914.35	6,882.36	6,757.58	124.79	55.153		
16,800.00	7,870.00	7,284.00	7,192.55	134.42	30.65	74.14	1,263.72	2,914.35	6,976.47	6,851.66	124.80	55.899		
16,900.00	7,870.00	7,284.00	7,192.55	135.57	30.65	74.14	1,263.72	2,914.35	7,070.73	6,945.91	124.82	56.647		
17,000.00	7,870.00	7,284.00	7,192.55	136.75	30.65	74.14	1,263.72	2,914.35	7,165.16	7,040.32	124.83	57.397		
17,100.00	7,870.00	7,284.00	7,192.55	137.94	30.65	74.14	1,263.72	2,914.35	7,259.73	7,134.88	124.85	58.149		
17,200.00	7,870.00	7,284.00	7,192.55	139.16	30.65	74.14	1,263.72	2,914.35	7,354.44	7,229.58	124.86	58.902		
17,300.00	7,870.00	7,284.00	7,192.55	140.39	30.65	74.14	1,263.72	2,914.35	7,449.30	7,324.43	124.87	59.657		
17,400.00	7,870.00	7,284.00	7,192.55	141.65	30.65	74.14	1,263.72	2,914.35	7,544.28	7,419.40	124.88	60.414		
17,500.00	7,870.00	7,284.00	7,192.55	142.92	30.65	74.14	1,263.72	2,914.35	7,639.40	7,514.51	124.89	61.171		
17,600.00	7,870.00	7,284.00	7,192.55	144.21	30.65	74.14	1,263.72	2,914.35	7,734.63	7,609.74	124.89	61.930		
17,700.00	7,870.00	7,284.00	7,192.55	145.52	30.65	74.14	1,263.72	2,914.35	7,829.99	7,705.09	124.90	62.691		
17,800.00	7,870.00	7,284.00	7,192.55	146.84	30.65	74.14	1,263.72	2,914.35	7,925.46	7,800.55	124.90	63.452		
17,900.00	7,870.00	7,284.00	7,192.55	148.18	30.65	74.14	1,263.72	2,914.35	8,021.04	7,896.13	124.91	64.215		
18,000.00	7,870.00	7,240.67	7,149.53	149.54	30.55	73.13	1,258.66	2,914.92	8,115.23	7,990.45	124.78	65.034		
18,100.00	7,870.00	7,240.03	7,148.89	150.90	30.54	73.12	1,258.61	2,914.93	8,210.98	8,086.19	124.79	65.800		
18,200.00	7,870.00	7,239.40	7,148.26	152.28	30.54	73.10	1,258.56	2,914.94	8,306.82	8,182.03	124.79	66.566		
18,300.00	7,870.00	7,238.79	7,147.65	153.67	30.54	73.09	1,258.51	2,914.94	8,402.76	8,277.97	124.79	67.333		
18,400.00	7,870.00	7,238.19	7,147.05	155.07	30.54	73.07	1,258.46	2,914.95	8,498.80	8,374.00	124.80	68.101		
18,500.00	7,870.00	7,237.60	7,146.47	156.49	30.54	73.06	1,258.41	2,914.96	8,594.92	8,470.12	124.80	68.869		
18,600.00	7,870.00	7,237.03	7,145.90	157.91	30.54	73.05	1,258.37	2,914.96	8,691.13	8,566.33	124.80	69.639		
18,700.00	7,870.00	7,236.47	7,145.34	159.35	30.54	73.03	1,258.32	2,914.97	8,787.43	8,662.62	124.81	70.409		
18,800.00	7,870.00	7,235.92	7,144.79	160.79	30.53	73.02	1,258.28	2,914.98	8,883.81	8,759.00	124.81	71.180		
18,900.00	7,870.00	7,235.38	7,144.26	162.25	30.53	73.01	1,258.24	2,914.98	8,980.26	8,855.45	124.81	71.951		
19,000.00	7,870.00	7,234.85	7,143.73	163.71	30.53	73.00	1,258.20	2,914.99	9,076.79	8,951.98	124.81	72.724		
19,100.00	7,870.00	7,234.34	7,143.22	165.18	30.53	72.99	1,258.16	2,915.00	9,173.40	9,048.58	124.81	73.496		
19,200.00	7,870.00	7,233.83	7,142.71	166.66	30.53	72.97	1,258.12	2,915.00	9,270.08	9,145.26	124.82	74.269		
19,300.00	7,870.00	7,233.34	7,142.22	168.15	30.53	72.96	1,258.09	2,915.01	9,366.82	9,242.00	124.82	75.043		
19,400.00	7,870.00	7,232.85	7,141.74	169.65	30.53	72.95	1,258.05	2,915.01	9,463.64	9,338.81	124.82	75.817		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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	
19,500.00	7,870.00	7,189.00	7,097.93	171.15	30.42	71.94	1,256.34	2,915.48	9,562.01	9,437.30	124.72	76.670	
19,600.00	7,870.00	7,189.00	7,097.93	172.66	30.42	71.94	1,256.34	2,915.48	9,658.92	9,534.20	124.72	77.444	
19,700.00	7,870.00	7,189.00	7,097.93	174.18	30.42	71.94	1,256.34	2,915.48	9,755.90	9,631.17	124.73	78.219	
19,800.00	7,870.00	7,189.00	7,097.93	175.70	30.42	71.94	1,256.34	2,915.48	9,852.93	9,728.20	124.73	78.993	
19,889.26	7,870.00	7,189.00	7,097.93	177.06	30.42	71.94	1,256.34	2,915.48	9,939.58	9,814.85	124.74	79.685	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	175.93	-4,018.10	286.21	4,028.30					
100.00	100.00	54.16	54.16	0.13	0.09	175.92	-4,018.30	286.46	4,028.62	4,028.40	0.22	N/A		
200.00	200.00	120.00	119.99	0.49	0.20	175.91	-4,019.06	287.45	4,029.87	4,029.18	0.69	5,865.909		
300.00	300.00	298.41	298.36	0.85	0.83	175.87	-4,020.41	290.35	4,030.89	4,029.21	1.68	2,395.787		
352.59	352.58	361.16	361.11	1.04	1.05	107.73	-4,020.08	290.91	4,030.80	4,028.71	2.09	1,928.303		
400.00	399.98	411.92	411.86	1.21	1.23	107.73	-4,019.73	291.34	4,030.89	4,028.45	2.44	1,653.473		
500.00	499.84	516.53	516.44	1.56	1.61	107.76	-4,018.91	293.75	4,031.87	4,028.70	3.17	1,272.249		
600.00	599.45	814.69	812.90	1.93	2.73	107.71	-4,007.62	321.45	4,031.60	4,026.94	4.66	865.338		
700.00	698.70	1,005.23	1,000.25	2.32	3.54	107.63	-3,992.29	352.53	4,028.36	4,022.52	5.84	689.735		
800.00	797.47	1,094.36	1,087.35	2.72	3.95	107.62	-3,983.98	369.52	4,025.19	4,018.54	6.64	605.750		
900.00	895.62	1,177.89	1,168.90	3.16	4.34	107.63	-3,976.62	385.99	4,023.61	4,016.14	7.46	539.015		
1,000.00	993.06	1,314.46	1,302.62	3.63	4.99	107.70	-3,963.95	410.71	4,022.41	4,013.85	8.56	470.124		
1,039.63	1,031.44	1,342.46	1,330.05	3.83	5.12	107.72	-3,961.36	415.65	4,022.27	4,013.39	8.88	452.722 CC		
1,100.00	1,089.64	1,397.45	1,383.92	4.14	5.38	107.77	-3,956.43	425.60	4,022.57	4,013.12	9.44	425.923		
1,200.00	1,185.27	1,542.59	1,525.59	4.70	6.09	107.92	-3,942.48	453.86	4,023.40	4,012.72	10.68	376.718		
1,300.00	1,279.82	1,665.70	1,645.26	5.31	6.72	108.07	-3,929.37	479.61	4,024.35	4,012.47	11.88	338.778 ES		
1,400.00	1,373.17	1,774.99	1,751.51	5.97	7.28	108.25	-3,917.26	502.13	4,025.97	4,012.90	13.06	308.200		
1,500.00	1,465.21	1,860.88	1,835.24	6.69	7.72	108.41	-3,907.86	518.80	4,028.82	4,014.64	14.18	284.173		
1,600.00	1,555.84	1,939.45	1,911.84	7.47	8.12	108.56	-3,899.58	534.24	4,033.28	4,017.97	15.31	263.422		
1,700.00	1,644.94	2,038.07	2,007.99	8.31	8.62	108.78	-3,889.41	553.64	4,039.18	4,022.58	16.60	243.332		
1,800.00	1,732.39	2,143.44	2,110.53	9.23	9.17	109.04	-3,878.35	575.25	4,046.23	4,028.24	17.99	224.950		
1,900.00	1,818.11	2,244.47	2,208.53	10.21	9.71	109.29	-3,867.52	597.24	4,054.42	4,035.00	19.43	208.722		
2,000.00	1,901.97	2,356.41	2,317.13	11.26	10.31	109.61	-3,855.32	621.51	4,063.81	4,042.83	20.98	193.727		
2,100.00	1,983.88	2,469.43	2,426.81	12.38	10.91	109.98	-3,842.28	645.46	4,074.00	4,051.41	22.59	180.374		
2,200.00	2,063.74	2,546.04	2,501.17	13.57	11.32	110.17	-3,833.40	661.62	4,085.67	4,061.60	24.07	169.721		
2,300.00	2,141.45	2,711.46	2,661.42	14.84	12.22	110.86	-3,813.84	697.66	4,098.97	4,072.91	26.06	157.284		
2,327.78	2,162.65	2,734.53	2,683.79	15.21	12.34	110.94	-3,810.82	702.35	4,102.55	4,076.05	26.50	154.790		
2,400.00	2,217.51	2,787.00	2,734.74	16.17	12.63	111.26	-3,803.98	712.92	4,112.21	4,084.59	27.63	148.853		
2,500.00	2,293.49	2,830.85	2,777.34	17.51	12.86	111.53	-3,798.56	721.79	4,126.62	4,097.58	29.04	142.087		
2,600.00	2,369.47	2,881.00	2,826.09	18.86	13.12	111.84	-3,793.06	732.18	4,142.56	4,112.07	30.49	135.881		
2,700.00	2,445.45	2,995.69	2,937.47	20.22	13.74	112.52	-3,780.57	756.52	4,159.12	4,126.87	32.26	128.943		
2,800.00	2,521.42	3,070.00	3,009.49	21.59	14.15	112.95	-3,772.18	772.76	4,175.70	4,141.87	33.82	123.464		
2,900.00	2,597.40	3,123.88	3,061.71	22.97	14.44	113.26	-3,766.43	784.74	4,193.25	4,157.97	35.28	118.864		
3,000.00	2,673.38	3,266.24	3,199.62	24.34	15.22	114.07	-3,752.04	816.98	4,211.91	4,174.72	37.19	113.245		
3,100.00	2,749.36	3,348.74	3,279.42	25.73	15.68	114.53	-3,742.80	835.76	4,229.66	4,190.87	38.79	109.044		
3,200.00	2,825.33	3,434.11	3,362.07	27.11	16.16	115.01	-3,733.34	854.92	4,247.92	4,207.53	40.39	105.182		
3,300.00	2,901.31	3,538.88	3,463.52	28.50	16.73	115.59	-3,721.61	878.31	4,266.47	4,224.40	42.07	101.407		
3,400.00	2,977.29	3,606.36	3,528.92	29.90	17.10	115.97	-3,714.05	893.13	4,285.42	4,241.87	43.55	98.397		
3,500.00	3,053.27	3,679.77	3,600.14	31.29	17.50	116.38	-3,706.18	909.06	4,305.21	4,260.16	45.05	95.568		
3,600.00	3,129.24	3,753.47	3,671.71	32.69	17.90	116.79	-3,698.44	924.87	4,325.61	4,279.08	46.53	92.961		
3,700.00	3,205.22	3,812.97	3,729.59	34.08	18.22	117.12	-3,692.50	937.34	4,346.89	4,298.97	47.92	90.703		
3,800.00	3,281.20	3,873.00	3,788.10	35.48	18.53	117.46	-3,686.84	949.48	4,369.15	4,319.85	49.30	88.628		
3,900.00	3,357.18	3,922.00	3,835.99	36.88	18.78	117.74	-3,682.43	958.85	4,392.39	4,341.79	50.60	86.814		
4,000.00	3,433.15	3,987.95	3,900.65	38.29	19.10	118.13	-3,676.80	970.58	4,416.60	4,364.65	51.95	85.023		
4,100.00	3,509.13	4,036.48	3,948.37	39.69	19.33	118.42	-3,672.92	978.48	4,441.89	4,388.70	53.19	83.515		
4,200.00	3,585.11	4,077.69	3,988.99	41.09	19.51	118.67	-3,669.95	984.72	4,468.44	4,414.08	54.37	82.191		
4,300.00	3,661.08	4,111.00	4,021.90	42.50	19.66	118.88	-3,667.79	989.47	4,496.30	4,440.81	55.49	81.032		
4,400.00	3,737.06	4,164.48	4,074.84	43.90	19.89	119.21	-3,664.69	996.37	4,525.35	4,468.68	56.67	79.856		
4,500.00	3,813.04	4,210.88	4,120.88	45.31	20.07	119.51	-3,662.28	1,001.54	4,555.59	4,497.80	57.79	78.824		
4,600.00	3,889.02	4,278.69	4,188.32	46.71	20.33	119.95	-3,658.84	1,007.80	4,586.77	4,527.79	58.98	77.773		
4,700.00	3,964.99	4,327.36	4,236.79	48.12	20.50	120.28	-3,656.37	1,011.36	4,618.82	4,558.78	60.05	76.920		
4,800.00	4,040.97	4,367.53	4,276.85	49.53	20.64	120.56	-3,654.57	1,013.81	4,652.08	4,591.02	61.06	76.193		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,116.95	4,394.00	4,303.26	50.94	20.73	120.74	-3,653.53	1,015.18	4,686.59	4,624.60	61.99	75.605		
5,000.00	4,192.93	4,435.53	4,344.73	52.35	20.86	121.03	-3,652.21	1,016.97	4,722.35	4,659.40	62.95	75.018		
5,100.00	4,268.90	4,488.00	4,397.16	53.76	21.02	121.39	-3,651.22	1,018.64	4,759.59	4,695.65	63.94	74.443		
5,200.00	4,344.88	4,505.39	4,414.55	55.16	21.07	121.51	-3,651.02	1,019.07	4,797.85	4,733.09	64.75	74.093		
5,300.00	4,420.86	4,567.62	4,476.76	56.57	21.25	121.95	-3,650.38	1,020.38	4,837.13	4,771.40	65.74	73.583		
5,400.00	4,496.84	4,651.03	4,560.15	57.98	21.49	122.52	-3,649.56	1,021.87	4,877.04	4,810.25	66.79	73.016		
5,500.00	4,572.81	4,731.41	4,640.52	59.39	21.73	123.07	-3,648.69	1,023.48	4,917.31	4,849.48	67.83	72.496		
5,600.00	4,648.79	4,811.21	4,720.28	60.81	21.96	123.61	-3,647.87	1,025.27	4,958.05	4,889.20	68.85	72.009		
5,700.00	4,724.77	4,897.17	4,806.22	62.22	22.22	124.17	-3,646.98	1,027.45	4,999.17	4,929.27	69.90	71.521		
5,800.00	4,800.74	4,981.96	4,890.97	63.63	22.47	124.72	-3,645.96	1,029.70	5,040.58	4,969.65	70.93	71.065		
5,900.00	4,876.72	5,054.82	4,963.80	65.04	22.70	125.19	-3,645.08	1,031.59	5,082.44	5,010.55	71.90	70.692		
6,000.00	4,952.70	5,140.53	5,049.48	66.45	22.96	125.74	-3,643.93	1,033.60	5,124.71	5,051.80	72.91	70.291		
6,100.00	5,028.68	5,213.76	5,122.69	67.86	23.17	126.21	-3,642.77	1,034.95	5,167.36	5,093.52	73.84	69.976		
6,200.00	5,104.65	5,279.05	5,187.96	69.27	23.37	126.62	-3,641.66	1,035.71	5,210.55	5,135.82	74.73	69.725		
6,300.00	5,180.63	5,338.00	5,246.90	70.69	23.54	126.99	-3,640.73	1,036.11	5,254.39	5,178.82	75.57	69.528		
6,400.00	5,256.61	5,388.80	5,297.70	72.10	23.68	127.32	-3,640.05	1,036.20	5,298.96	5,222.60	76.36	69.395		
6,500.00	5,332.59	5,438.64	5,347.54	73.51	23.82	127.63	-3,639.55	1,036.02	5,344.32	5,267.19	77.13	69.293		
6,600.00	5,408.56	5,493.46	5,402.36	74.92	23.97	127.97	-3,639.19	1,035.66	5,390.42	5,312.52	77.90	69.200		
6,700.00	5,484.54	5,557.77	5,466.67	76.34	24.14	128.37	-3,638.98	1,035.14	5,437.17	5,358.48	78.69	69.092		
6,800.00	5,560.52	5,635.69	5,544.58	77.75	24.35	128.85	-3,638.72	1,034.51	5,484.32	5,404.78	79.54	68.948		
6,900.00	5,636.50	5,706.29	5,615.17	79.16	24.53	129.28	-3,638.46	1,033.81	5,531.88	5,451.53	80.35	68.847		
7,000.00	5,712.47	5,787.01	5,695.89	80.57	24.75	129.77	-3,638.09	1,032.85	5,579.81	5,498.61	81.19	68.723		
7,100.00	5,788.45	5,857.02	5,765.89	81.99	24.94	130.18	-3,637.70	1,031.94	5,628.06	5,546.08	81.98	68.653		
7,200.00	5,864.43	5,927.84	5,836.71	83.40	25.13	130.60	-3,637.37	1,030.90	5,676.78	5,594.02	82.76	68.594		
7,300.00	5,940.40	6,021.35	5,930.20	84.81	25.38	131.15	-3,636.82	1,029.55	5,725.77	5,642.14	83.64	68.460		
7,400.00	6,016.38	6,131.22	6,040.06	86.23	25.69	131.77	-3,635.75	1,028.49	5,774.63	5,690.04	84.59	68.263		
7,500.00	6,092.36	6,221.41	6,130.24	87.64	25.95	132.27	-3,634.80	1,028.14	5,823.60	5,738.14	85.46	68.140		
7,600.00	6,168.34	6,318.15	6,226.98	89.05	26.24	132.80	-3,633.51	1,027.94	5,872.60	5,786.24	86.36	67.998		
7,700.00	6,244.31	6,399.27	6,308.08	90.47	26.48	133.24	-3,632.09	1,027.58	5,921.74	5,834.56	87.18	67.926		
7,800.00	6,320.29	6,465.18	6,373.98	91.88	26.67	133.60	-3,630.84	1,026.98	5,971.24	5,883.32	87.91	67.924		
7,900.00	6,396.27	6,536.56	6,445.34	93.30	26.88	133.98	-3,629.47	1,026.13	6,021.13	5,932.47	88.66	67.915		
8,000.00	6,472.25	6,619.33	6,528.09	94.71	27.13	134.42	-3,627.90	1,025.16	6,071.32	5,981.87	89.45	67.873		
8,100.00	6,548.22	6,682.20	6,590.94	96.12	27.31	134.75	-3,626.72	1,024.60	6,121.72	6,031.58	90.15	67.907		
8,200.00	6,624.20	6,720.11	6,628.85	97.54	27.42	134.94	-3,626.25	1,024.26	6,172.80	6,082.08	90.72	68.044		
8,300.00	6,700.18	6,760.30	6,669.04	98.95	27.54	135.14	-3,626.03	1,023.87	6,224.60	6,133.31	91.29	68.186		
8,400.00	6,776.16	6,849.27	6,758.00	100.37	27.80	135.59	-3,625.64	1,022.94	6,276.78	6,184.68	92.10	68.155		
8,500.00	6,852.13	6,933.18	6,841.91	101.78	28.04	136.00	-3,625.20	1,022.23	6,329.07	6,236.20	92.88	68.145		
8,600.00	6,928.11	7,043.48	6,952.20	103.20	28.37	136.53	-3,624.59	1,021.89	6,381.38	6,287.58	93.80	68.032		
8,700.00	7,004.09	7,100.94	7,009.67	104.61	28.55	136.81	-3,624.29	1,021.88	6,433.81	6,339.35	94.45	68.116		
8,800.00	7,080.06	7,183.56	7,092.28	106.02	28.80	137.19	-3,624.05	1,021.91	6,486.60	6,391.36	95.24	68.109		
8,900.00	7,156.04	7,269.97	7,178.69	107.44	29.07	137.59	-3,623.51	1,021.95	6,539.38	6,443.34	96.04	68.093		
9,000.00	7,232.02	7,347.25	7,255.97	108.85	29.31	137.94	-3,622.98	1,021.87	6,592.39	6,495.61	96.78	68.117		
9,104.68	7,311.55	7,440.27	7,348.99	110.33	29.60	138.35	-3,622.25	1,022.01	6,647.94	6,550.32	97.62	68.098		
9,150.00	7,346.29	7,469.44	7,378.16	110.97	29.69	131.90	-3,622.02	1,022.06	6,670.74	6,572.81	97.93	68.114		
9,200.00	7,385.15	7,501.99	7,410.71	111.65	29.80	124.74	-3,621.79	1,022.08	6,692.83	6,594.53	98.29	68.090		
9,250.00	7,424.29	7,547.09	7,455.80	112.31	29.94	117.72	-3,621.46	1,022.10	6,711.52	6,612.79	98.74	67.974		
9,300.00	7,463.40	7,596.97	7,505.68	112.93	30.10	110.97	-3,621.09	1,022.22	6,726.64	6,627.43	99.21	67.800		
9,350.00	7,502.19	7,648.16	7,556.87	113.51	30.26	104.64	-3,620.66	1,022.44	6,738.10	6,638.40	99.70	67.581		
9,400.00	7,540.36	7,698.85	7,607.56	114.04	30.42	98.87	-3,620.15	1,022.69	6,745.82	6,645.63	100.19	67.330		
9,450.00	7,577.62	7,728.67	7,637.38	114.53	30.52	93.64	-3,619.85	1,022.85	6,749.84	6,649.28	100.56	67.124		
9,500.00	7,613.70	7,757.51	7,666.21	114.95	30.61	89.11	-3,619.60	1,023.02	6,750.19	6,649.28	100.91	66.894		
9,550.00	7,648.30	7,785.21	7,693.92	115.32	30.70	85.30	-3,619.41	1,023.19	6,746.90	6,645.66	101.24	66.642		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
9,600.00	7,681.18	7,812.83	7,721.53	115.63	30.79	82.20	-3,619.25	1,023.37	6,740.01	6,638.45	101.56	66.367		
9,650.00	7,712.08	7,839.39	7,748.09	115.88	30.87	79.78	-3,619.12	1,023.54	6,729.56	6,627.72	101.85	66.075		
9,700.00	7,740.76	7,864.06	7,772.76	116.08	30.95	78.01	-3,619.02	1,023.70	6,715.66	6,613.55	102.11	65.771		
9,750.00	7,767.01	7,886.66	7,795.36	116.23	31.02	76.86	-3,618.94	1,023.84	6,698.40	6,596.07	102.33	65.458		
9,800.00	7,790.63	7,911.40	7,820.10	116.33	31.10	76.35	-3,618.86	1,024.00	6,677.91	6,575.36	102.55	65.120		
9,850.00	7,811.44	7,933.49	7,842.19	116.38	31.17	76.44	-3,618.80	1,024.16	6,654.35	6,551.62	102.73	64.776		
9,900.00	7,829.28	7,952.42	7,861.12	116.38	31.23	77.13	-3,618.74	1,024.30	6,627.87	6,525.00	102.87	64.429		
9,950.00	7,844.01	7,968.04	7,876.74	116.35	31.28	78.46	-3,618.70	1,024.42	6,598.69	6,495.71	102.98	64.079		
10,000.00	7,855.52	7,980.23	7,888.93	116.28	31.32	80.46	-3,618.67	1,024.52	6,567.01	6,463.96	103.05	63.729		
10,050.00	7,863.72	7,989.13	7,897.83	116.18	31.35	83.18	-3,618.65	1,024.59	6,533.05	6,429.96	103.08	63.376		
10,100.00	7,868.56	7,994.33	7,903.03	116.06	31.36	86.69	-3,618.63	1,024.64	6,497.05	6,393.96	103.09	63.022		
10,145.94	7,870.00	7,995.78	7,904.47	115.92	31.37	90.67	-3,618.63	1,024.65	6,462.39	6,359.32	103.07	62.697		
10,200.00	7,870.00	7,995.60	7,904.29	115.76	31.37	90.67	-3,618.63	1,024.65	6,420.89	6,317.85	103.04	62.315		
10,300.00	7,870.00	7,995.26	7,903.96	115.46	31.37	90.67	-3,618.63	1,024.64	6,344.63	6,241.65	102.98	61.611		
10,400.00	7,870.00	7,994.94	7,903.63	115.18	31.37	90.66	-3,618.63	1,024.64	6,269.03	6,166.11	102.92	60.911		
10,500.00	7,870.00	7,994.61	7,903.31	114.91	31.36	90.66	-3,618.63	1,024.64	6,194.13	6,091.26	102.87	60.213		
10,600.00	7,870.00	7,994.28	7,902.98	114.65	31.36	90.65	-3,618.63	1,024.64	6,119.94	6,017.12	102.82	59.519		
10,700.00	7,870.00	7,993.96	7,902.66	114.41	31.36	90.65	-3,618.63	1,024.63	6,046.50	5,943.71	102.78	58.828		
10,800.00	7,870.00	7,993.64	7,902.34	114.17	31.36	90.64	-3,618.63	1,024.63	5,973.82	5,871.07	102.75	58.139		
10,900.00	7,870.00	7,993.35	7,902.05	113.95	31.36	90.64	-3,618.64	1,024.63	5,901.95	5,799.23	102.72	57.455		
11,000.00	7,870.00	7,993.08	7,901.78	113.75	31.36	90.64	-3,618.64	1,024.63	5,830.91	5,728.20	102.70	56.773		
11,100.00	7,870.00	7,992.81	7,901.51	113.55	31.36	90.63	-3,618.64	1,024.63	5,760.72	5,658.03	102.69	56.096		
11,200.00	7,870.00	7,992.54	7,901.24	113.37	31.36	90.63	-3,618.64	1,024.62	5,691.43	5,588.74	102.69	55.422		
11,300.00	7,870.00	7,992.27	7,900.97	113.20	31.36	90.62	-3,618.64	1,024.62	5,623.06	5,520.36	102.70	54.752		
11,400.00	7,870.00	7,992.00	7,900.70	113.04	31.36	90.62	-3,618.64	1,024.62	5,555.65	5,452.93	102.72	54.087		
11,500.00	7,870.00	7,991.73	7,900.43	112.89	31.36	90.62	-3,618.64	1,024.62	5,489.23	5,386.49	102.75	53.425		
11,600.00	7,870.00	7,991.46	7,900.16	112.76	31.35	90.61	-3,618.64	1,024.62	5,423.85	5,321.06	102.79	52.768		
11,700.00	7,870.00	7,991.19	7,899.89	112.64	31.35	90.61	-3,618.64	1,024.61	5,359.53	5,256.69	102.84	52.116		
11,800.00	7,870.00	7,990.92	7,899.62	112.53	31.35	90.61	-3,618.64	1,024.61	5,296.32	5,193.42	102.90	51.469		
11,900.00	7,870.00	7,990.65	7,899.34	112.44	31.35	90.60	-3,618.64	1,024.61	5,234.26	5,131.28	102.98	50.828		
12,000.00	7,870.00	7,990.38	7,899.07	112.36	31.35	90.60	-3,618.64	1,024.61	5,173.39	5,070.31	103.07	50.191		
12,100.00	7,870.00	7,990.10	7,898.80	112.29	31.35	90.59	-3,618.65	1,024.60	5,113.74	5,010.56	103.18	49.561		
12,200.00	7,870.00	7,989.83	7,898.53	112.24	31.35	90.59	-3,618.65	1,024.60	5,055.37	4,952.07	103.30	48.937		
12,300.00	7,870.00	7,989.56	7,898.25	112.20	31.35	90.59	-3,618.65	1,024.60	4,998.32	4,894.88	103.44	48.319		
12,400.00	7,870.00	7,989.28	7,897.98	112.17	31.35	90.58	-3,618.65	1,024.60	4,942.64	4,839.04	103.60	47.708		
12,500.00	7,870.00	7,989.01	7,897.70	112.16	31.35	90.58	-3,618.65	1,024.59	4,888.37	4,784.59	103.78	47.104		
12,600.00	7,870.00	7,988.73	7,897.43	112.17	31.35	90.58	-3,618.65	1,024.59	4,835.55	4,731.58	103.97	46.508		
12,700.00	7,870.00	7,988.46	7,897.16	112.19	31.34	90.57	-3,618.65	1,024.59	4,784.25	4,680.06	104.19	45.921		
12,800.00	7,870.00	7,988.18	7,896.88	112.23	31.34	90.57	-3,618.65	1,024.59	4,734.50	4,630.08	104.42	45.341		
12,900.00	7,870.00	7,987.91	7,896.60	112.28	31.34	90.56	-3,618.65	1,024.59	4,686.35	4,581.68	104.67	44.772		
13,000.00	7,870.00	7,987.63	7,896.33	112.36	31.34	90.56	-3,618.65	1,024.58	4,639.87	4,534.92	104.95	44.211		
13,100.00	7,870.00	7,987.35	7,896.05	112.45	31.34	90.56	-3,618.65	1,024.58	4,595.08	4,489.84	105.24	43.662		
13,200.00	7,870.00	7,987.08	7,895.77	112.56	31.34	90.55	-3,618.65	1,024.58	4,552.06	4,446.50	105.56	43.123		
13,300.00	7,870.00	7,986.80	7,895.50	112.68	31.34	90.55	-3,618.65	1,024.58	4,510.84	4,404.94	105.90	42.595		
13,400.00	7,870.00	7,986.52	7,895.22	112.83	31.34	90.54	-3,618.65	1,024.57	4,471.48	4,365.22	106.26	42.081		
13,500.00	7,870.00	7,986.24	7,894.94	113.00	31.34	90.54	-3,618.65	1,024.57	4,434.02	4,327.38	106.64	41.579		
13,600.00	7,870.00	7,985.97	7,894.66	113.19	31.34	90.54	-3,618.66	1,024.57	4,398.52	4,291.48	107.05	41.090		
13,700.00	7,870.00	7,985.69	7,894.38	113.40	31.34	90.53	-3,618.66	1,024.57	4,365.03	4,257.56	107.47	40.616		
13,800.00	7,870.00	7,985.41	7,894.10	113.63	31.34	90.53	-3,618.66	1,024.56	4,333.58	4,225.66	107.91	40.158		
13,900.00	7,870.00	7,985.13	7,893.82	113.89	31.33	90.52	-3,618.66	1,024.56	4,304.22	4,195.85	108.38	39.715		
14,000.00	7,870.00	7,984.85	7,893.54	114.18	31.33	90.52	-3,618.66	1,024.56	4,277.01	4,168.15	108.86	39.289		
14,100.00	7,870.00	7,984.57	7,893.26	114.48	31.33	90.52	-3,618.66	1,024.56	4,251.97	4,142.61	109.36	38.880		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ STIPANOVICH 8-0-27 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 120-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,870.00	7,984.29	7,892.98	114.82	31.33	90.51	-3,618.66	1,024.55	4,229.14	4,119.27	109.88	38.489		
14,300.00	7,870.00	7,984.00	7,892.70	115.18	31.33	90.51	-3,618.66	1,024.55	4,208.58	4,098.16	110.41	38.117		
14,400.00	7,870.00	7,983.72	7,892.42	115.57	31.33	90.51	-3,618.66	1,024.55	4,190.29	4,079.34	110.96	37.765		
14,500.00	7,870.00	7,983.44	7,892.14	115.99	31.33	90.50	-3,618.66	1,024.55	4,174.32	4,062.81	111.51	37.433		
14,600.00	7,870.00	7,983.16	7,891.86	116.44	31.33	90.50	-3,618.66	1,024.55	4,160.70	4,048.62	112.08	37.122		
14,700.00	7,870.00	7,982.88	7,891.57	116.92	31.33	90.49	-3,618.66	1,024.54	4,149.44	4,036.78	112.66	36.832		
14,800.00	7,870.00	7,982.59	7,891.29	117.44	31.33	90.49	-3,618.66	1,024.54	4,140.57	4,027.33	113.24	36.563		
14,900.00	7,870.00	7,982.31	7,891.01	117.98	31.33	90.49	-3,618.66	1,024.54	4,134.10	4,020.26	113.83	36.318		
15,000.00	7,870.00	7,982.03	7,890.72	118.56	31.32	90.48	-3,618.67	1,024.54	4,130.04	4,015.61	114.42	36.095		
15,100.00	7,870.00	7,981.74	7,890.44	119.17	31.32	90.48	-3,618.67	1,024.53	4,128.39	4,013.38	115.01	35.895		
15,117.80	7,870.00	7,981.69	7,890.39	119.28	31.32	90.48	-3,618.67	1,024.53	4,128.36	4,013.23	115.12	35.861		
15,200.00	7,870.00	7,981.46	7,890.15	119.81	31.32	90.47	-3,618.67	1,024.53	4,129.17	4,013.57	115.60	35.718		
15,300.00	7,870.00	7,981.17	7,889.87	120.48	31.32	90.47	-3,618.67	1,024.53	4,132.37	4,016.18	116.19	35.565		
15,400.00	7,870.00	7,980.89	7,889.58	121.19	31.32	90.47	-3,618.67	1,024.53	4,137.99	4,021.22	116.77	35.436		
15,500.00	7,870.00	7,980.60	7,889.30	121.93	31.32	90.46	-3,618.67	1,024.52	4,146.01	4,028.66	117.35	35.331		
15,600.00	7,870.00	7,980.31	7,889.01	122.71	31.32	90.46	-3,618.67	1,024.52	4,156.42	4,038.51	117.92	35.249		
15,700.00	7,870.00	7,980.03	7,888.72	123.52	31.32	90.45	-3,618.67	1,024.52	4,169.21	4,050.73	118.47	35.192		
15,800.00	7,870.00	7,979.74	7,888.44	124.36	31.32	90.45	-3,618.67	1,024.52	4,184.34	4,065.33	119.01	35.158		
15,900.00	7,870.00	7,979.45	7,888.15	125.23	31.32	90.45	-3,618.67	1,024.51	4,201.80	4,082.26	119.55	35.148 SF		
16,000.00	7,870.00	7,979.16	7,887.86	126.14	31.32	90.44	-3,618.67	1,024.51	4,221.56	4,101.50	120.06	35.162		
16,100.00	7,870.00	7,978.87	7,887.57	127.07	31.31	90.44	-3,618.67	1,024.51	4,243.59	4,123.03	120.56	35.199		
16,200.00	7,870.00	7,978.59	7,887.28	128.04	31.31	90.43	-3,618.67	1,024.51	4,267.84	4,146.80	121.04	35.258		
16,300.00	7,870.00	7,978.30	7,886.99	129.04	31.31	90.43	-3,618.68	1,024.50	4,294.29	4,172.78	121.51	35.341		
16,400.00	7,870.00	7,978.01	7,886.70	130.06	31.31	90.43	-3,618.68	1,024.50	4,322.89	4,200.93	121.96	35.446		
16,500.00	7,870.00	7,977.72	7,886.41	131.11	31.31	90.42	-3,618.68	1,024.50	4,353.59	4,231.21	122.39	35.572		
16,600.00	7,870.00	7,977.43	7,886.12	132.19	31.31	90.42	-3,618.68	1,024.50	4,386.37	4,263.57	122.80	35.720		
16,700.00	7,870.00	7,977.14	7,885.83	133.29	31.31	90.41	-3,618.68	1,024.50	4,421.16	4,297.97	123.19	35.889		
16,800.00	7,870.00	7,976.84	7,885.54	134.42	31.31	90.41	-3,618.68	1,024.49	4,457.93	4,334.36	123.56	36.079		
16,900.00	7,870.00	7,976.55	7,885.25	135.57	31.31	90.41	-3,618.68	1,024.49	4,496.61	4,372.70	123.91	36.289		
17,000.00	7,870.00	7,976.26	7,884.96	136.75	31.31	90.40	-3,618.68	1,024.49	4,537.18	4,412.93	124.25	36.518		
17,100.00	7,870.00	7,975.97	7,884.67	137.94	31.30	90.40	-3,618.68	1,024.49	4,579.56	4,455.00	124.56	36.766		
17,200.00	7,870.00	7,975.67	7,884.37	139.16	31.30	90.39	-3,618.68	1,024.48	4,623.73	4,498.87	124.86	37.033		
17,300.00	7,870.00	7,975.38	7,884.08	140.39	31.30	90.39	-3,618.68	1,024.48	4,669.61	4,544.48	125.13	37.317		
17,400.00	7,870.00	7,975.09	7,883.79	141.65	31.30	90.39	-3,618.68	1,024.48	4,717.17	4,591.78	125.39	37.619		
17,500.00	7,870.00	7,974.79	7,883.49	142.92	31.30	90.38	-3,618.68	1,024.48	4,766.36	4,640.72	125.63	37.938		
17,600.00	7,870.00	7,974.50	7,883.20	144.21	31.30	90.38	-3,618.68	1,024.47	4,817.11	4,691.25	125.86	38.274		
17,700.00	7,870.00	7,974.20	7,882.90	145.52	31.30	90.37	-3,618.69	1,024.47	4,869.40	4,743.33	126.07	38.625		
17,800.00	7,870.00	7,973.91	7,882.61	146.84	31.30	90.37	-3,618.69	1,024.47	4,923.16	4,796.89	126.26	38.991		
17,900.00	7,870.00	7,973.61	7,882.31	148.18	31.30	90.37	-3,618.69	1,024.47	4,978.34	4,851.90	126.44	39.373		
18,000.00	7,870.00	7,973.32	7,882.01	149.54	31.30	90.36	-3,618.69	1,024.46	5,034.91	4,908.31	126.61	39.768		
18,100.00	7,870.00	7,973.02	7,881.72	150.90	31.30	90.36	-3,618.69	1,024.46	5,092.82	4,966.06	126.76	40.178		
18,200.00	7,870.00	7,972.72	7,881.42	152.28	31.29	90.35	-3,618.69	1,024.46	5,152.01	5,025.12	126.89	40.601		
18,300.00	7,870.00	7,972.42	7,881.12	153.67	31.29	90.35	-3,618.69	1,024.46	5,212.45	5,085.43	127.02	41.037		
18,400.00	7,870.00	7,972.13	7,880.82	155.07	31.29	90.34	-3,618.69	1,024.45	5,274.10	5,146.96	127.13	41.485		
18,500.00	7,870.00	7,971.83	7,880.53	156.49	31.29	90.34	-3,618.69	1,024.45	5,336.90	5,209.67	127.24	41.945		
18,600.00	7,870.00	7,971.53	7,880.23	157.91	31.29	90.34	-3,618.69	1,024.45	5,400.83	5,273.50	127.33	42.417		
18,700.00	7,870.00	7,971.23	7,879.93	159.35	31.29	90.33	-3,618.69	1,024.45	5,465.84	5,338.43	127.41	42.900		
18,800.00	7,870.00	7,970.93	7,879.63	160.79	31.29	90.33	-3,618.69	1,024.44	5,531.89	5,404.41	127.48	43.393		
18,900.00	7,870.00	7,970.63	7,879.33	162.25	31.29	90.32	-3,618.70	1,024.44	5,598.95	5,471.40	127.55	43.897		
19,000.00	7,870.00	7,970.33	7,879.03	163.71	31.29	90.32	-3,618.70	1,024.44	5,666.98	5,539.38	127.60	44.411		
19,100.00	7,870.00	7,970.03	7,878.73	165.18	31.29	90.32	-3,618.70	1,024.44	5,735.95	5,608.30	127.65	44.934		
19,200.00	7,870.00	7,969.73	7,878.42	166.66	31.29	90.31	-3,618.70	1,024.43	5,805.82	5,678.13	127.69	45.467		

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

Anticollision Report

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

Offset Design		SEC 22-T1N-R68W - EXIST HZ STIPANOVICH 8-0-27 - OWB - FINAL SURVEY										Offset Site Error:	0.00 usft
Survey Program:		120-MWD OWSG										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,870.00	7,969.42	7,878.12	168.15	31.28	90.31	-3,618.70	1,024.43	5,876.56	5,748.83	127.73	46.008	
19,400.00	7,870.00	7,969.12	7,877.82	169.65	31.28	90.30	-3,618.70	1,024.43	5,948.14	5,820.39	127.76	46.558	
19,500.00	7,870.00	7,968.82	7,877.52	171.15	31.28	90.30	-3,618.70	1,024.43	6,020.54	5,892.76	127.78	47.116	
19,600.00	7,870.00	7,968.52	7,877.21	172.66	31.28	90.29	-3,618.70	1,024.43	6,093.71	5,965.91	127.80	47.682	
19,700.00	7,870.00	7,968.21	7,876.91	174.18	31.28	90.29	-3,618.70	1,024.42	6,167.64	6,039.82	127.81	48.255	
19,800.00	7,870.00	7,967.91	7,876.61	175.70	31.28	90.29	-3,618.70	1,024.42	6,242.29	6,114.47	127.82	48.836	
19,889.26	7,870.00	7,967.64	7,876.33	177.06	31.28	90.28	-3,618.70	1,024.42	6,309.51	6,181.69	127.82	49.361	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	175.94	-4,029.02	286.21	4,039.20					
100.00	100.00	100.05	100.05	0.13	0.17	175.93	-4,028.85	286.44	4,039.05	4,038.74	0.31	N/A		
200.00	200.00	251.49	251.46	0.49	0.72	175.90	-4,027.21	288.54	4,038.06	4,036.85	1.21	3,338.089		
300.00	300.00	305.00	304.94	0.85	0.91	175.88	-4,026.12	289.91	4,036.59	4,034.83	1.76	2,294.557		
313.25	313.25	305.00	304.94	0.90	0.91	107.74	-4,026.12	289.91	4,036.56	4,034.75	1.81	2,234.749 CC		
400.00	399.98	305.00	304.94	1.21	0.91	107.71	-4,026.12	289.91	4,037.89	4,035.77	2.12	1,907.320		
500.00	499.84	419.04	418.88	1.56	1.33	107.66	-4,025.56	294.47	4,038.99	4,036.10	2.89	1,398.685		
600.00	599.45	462.04	461.81	1.93	1.48	107.58	-4,026.40	296.87	4,044.00	4,040.59	3.41	1,184.429		
700.00	698.70	504.92	504.57	2.32	1.64	107.47	-4,027.82	299.63	4,051.47	4,047.52	3.96	1,024.280		
800.00	797.47	547.59	547.09	2.72	1.80	107.33	-4,029.81	302.73	4,061.39	4,056.87	4.52	899.493		
900.00	895.62	639.00	637.94	3.16	2.13	107.24	-4,035.97	310.59	4,074.41	4,069.14	5.27	772.440		
1,000.00	993.06	639.00	637.94	3.63	2.13	106.97	-4,035.97	310.59	4,088.49	4,082.76	5.73	713.154		
1,100.00	1,089.64	677.18	675.79	4.14	2.28	106.72	-4,039.29	314.28	4,105.58	4,099.21	6.37	644.561		
1,200.00	1,185.27	731.00	729.08	4.70	2.50	106.49	-4,044.63	319.68	4,124.98	4,117.88	7.10	580.837		
1,300.00	1,279.82	758.66	756.41	5.31	2.61	106.15	-4,047.74	322.61	4,146.66	4,138.88	7.78	533.224		
1,400.00	1,373.17	792.49	789.75	5.97	2.75	105.79	-4,051.96	326.46	4,170.80	4,162.28	8.52	489.600		
1,500.00	1,465.21	825.00	821.70	6.69	2.89	105.38	-4,056.47	330.43	4,197.36	4,188.06	9.30	451.316		
1,600.00	1,555.84	861.37	857.33	7.47	3.05	104.95	-4,061.99	335.17	4,226.25	4,216.09	10.15	416.310		
1,700.00	1,644.94	920.00	914.53	8.31	3.32	104.59	-4,071.90	343.39	4,257.56	4,246.41	11.15	381.783		
1,800.00	1,732.39	920.00	914.53	9.23	3.32	103.90	-4,071.90	343.39	4,290.77	4,278.83	11.93	359.518		
1,900.00	1,818.11	962.41	955.72	10.21	3.53	103.39	-4,079.86	349.66	4,326.26	4,313.29	12.97	333.614		
2,000.00	1,901.97	1,014.00	1,005.60	11.26	3.78	102.90	-4,090.47	357.44	4,364.02	4,349.93	14.10	309.571		
2,100.00	1,983.88	1,014.00	1,005.60	12.38	3.78	102.06	-4,090.47	357.44	4,403.64	4,388.62	15.02	293.258		
2,200.00	2,063.74	1,069.25	1,058.79	13.57	4.08	101.53	-4,102.69	365.97	4,445.14	4,428.86	16.27	273.159		
2,300.00	2,141.45	1,109.83	1,097.76	14.84	4.29	100.87	-4,112.09	372.37	4,488.43	4,470.93	17.50	256.477		
2,327.78	2,162.65	1,131.39	1,118.43	15.21	4.41	100.76	-4,117.16	375.73	4,500.74	4,482.83	17.91	251.324		
2,400.00	2,217.51	1,239.48	1,222.37	16.17	5.00	101.56	-4,142.24	391.61	4,532.92	4,513.66	19.26	235.324		
2,500.00	2,293.49	1,316.47	1,296.59	17.51	5.43	102.12	-4,159.21	403.08	4,576.78	4,556.03	20.75	220.565		
2,600.00	2,369.47	1,369.00	1,347.05	18.86	5.72	102.49	-4,171.21	411.39	4,621.67	4,599.57	22.10	209.121		
2,700.00	2,445.45	1,480.19	1,453.69	20.22	6.37	103.25	-4,196.46	430.16	4,666.92	4,643.10	23.82	195.946		
2,800.00	2,521.42	1,553.44	1,523.94	21.59	6.80	103.73	-4,212.84	442.90	4,712.24	4,686.93	25.31	186.194		
2,900.00	2,597.40	1,616.55	1,584.41	22.97	7.18	104.15	-4,227.08	454.04	4,758.10	4,731.37	26.74	177.966		
3,000.00	2,673.38	1,682.66	1,647.65	24.34	7.57	104.57	-4,242.22	465.95	4,804.58	4,776.40	28.18	170.492		
3,100.00	2,749.36	1,772.09	1,733.21	25.73	8.11	105.13	-4,262.79	481.88	4,851.55	4,821.77	29.78	162.912		
3,200.00	2,825.33	1,881.35	1,837.81	27.11	8.78	105.81	-4,287.04	502.07	4,898.06	4,866.54	31.52	155.408		
3,300.00	2,901.31	1,936.00	1,890.21	28.50	9.10	106.14	-4,299.25	511.66	4,945.19	4,912.31	32.88	150.422		
3,400.00	2,977.29	2,038.15	1,988.31	29.90	9.71	106.77	-4,321.99	528.80	4,992.67	4,958.13	34.55	144.520		
3,500.00	3,053.27	2,127.03	2,073.72	31.29	10.24	107.31	-4,341.46	543.80	5,040.20	5,004.08	36.12	139.522		
3,600.00	3,129.24	2,164.71	2,109.87	32.69	10.47	107.53	-4,349.85	550.35	5,088.29	5,050.94	37.34	136.256		
3,700.00	3,205.22	2,219.00	2,161.76	34.08	10.81	107.84	-4,362.47	560.12	5,137.32	5,098.65	38.67	132.846		
3,800.00	3,281.20	2,274.92	2,215.14	35.48	11.15	108.16	-4,375.72	570.21	5,187.00	5,147.00	40.00	129.662		
3,900.00	3,357.18	2,372.15	2,308.14	36.88	11.75	108.71	-4,398.42	587.22	5,236.83	5,195.19	41.64	125.768		
4,000.00	3,433.15	2,400.00	2,421.20	38.29	12.72	109.36	-4,425.13	608.17	5,286.28	5,234.87	51.41	102.833		
4,100.00	3,509.13	2,557.24	2,485.46	39.69	12.89	109.73	-4,440.07	620.10	5,335.81	5,290.99	44.83	119.027		
4,200.00	3,585.11	2,619.29	2,544.73	41.09	13.27	110.05	-4,454.40	631.59	5,386.10	5,339.92	46.19	116.614		
4,300.00	3,661.08	2,762.29	2,681.65	42.50	14.16	110.80	-4,486.37	657.65	5,436.10	5,387.93	48.17	112.844		
4,400.00	3,737.06	2,846.53	2,762.48	43.90	14.67	111.23	-4,504.61	672.76	5,485.87	5,436.18	49.69	110.397		
4,500.00	3,813.04	2,907.69	2,821.23	45.31	15.04	111.55	-4,517.86	683.45	5,535.98	5,484.95	51.02	108.500		
4,600.00	3,889.02	2,958.79	2,870.25	46.71	15.35	111.80	-4,529.18	692.41	5,586.68	5,534.41	52.27	106.890		
4,700.00	3,964.99	3,039.16	2,947.30	48.12	15.84	112.20	-4,547.20	706.49	5,637.84	5,584.10	53.73	104.920		
4,800.00	4,040.97	3,110.18	3,015.40	49.53	16.28	112.55	-4,563.06	718.89	5,689.17	5,634.05	55.12	103.207		
4,900.00	4,116.95	3,175.43	3,077.90	50.94	16.68	112.87	-4,577.84	730.47	5,740.91	5,684.45	56.46	101.679		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ STIPANOVICH 8-2-27 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 92-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,192.93	3,249.80	3,149.09	52.35	17.14	113.22	-4,594.78	743.70	5,792.97	5,735.10	57.87	100.104		
5,100.00	4,268.90	3,384.48	3,278.18	53.76	17.97	113.85	-4,624.74	767.76	5,844.75	5,784.97	59.78	97.777		
5,200.00	4,344.88	3,460.29	3,350.79	55.16	18.44	114.19	-4,641.41	781.76	5,896.48	5,835.29	61.19	96.357		
5,300.00	4,420.86	3,525.46	3,413.18	56.57	18.84	114.48	-4,655.86	793.84	5,948.53	5,886.01	62.52	95.148		
5,400.00	4,496.84	3,577.90	3,463.37	57.98	19.17	114.71	-4,667.61	803.45	6,000.99	5,937.27	63.73	94.170		
5,500.00	4,572.81	3,636.00	3,518.96	59.39	19.53	114.97	-4,680.91	813.91	6,054.05	5,989.08	64.97	93.180		
5,600.00	4,648.79	3,785.12	3,661.87	60.81	20.44	115.61	-4,714.33	840.28	6,107.11	6,040.12	66.99	91.162		
5,700.00	4,724.77	3,860.82	3,734.67	62.22	20.90	115.94	-4,730.48	853.35	6,159.52	6,091.15	68.37	90.089		
5,800.00	4,800.74	3,919.00	3,790.53	63.63	21.25	116.19	-4,743.25	863.39	6,212.53	6,142.94	69.59	89.267		
5,900.00	4,876.72	3,919.00	3,790.53	65.04	21.25	116.19	-4,743.25	863.39	6,266.21	6,195.91	70.30	89.134		
6,000.00	4,952.70	3,973.80	3,843.08	66.45	21.59	116.42	-4,755.76	872.61	6,320.45	6,248.98	71.47	88.431		
6,100.00	5,028.68	4,014.00	3,881.60	67.86	21.84	116.59	-4,765.27	879.08	6,375.51	6,303.00	72.51	87.931		
6,200.00	5,104.65	4,090.41	3,954.74	69.27	22.31	116.91	-4,783.60	891.45	6,431.01	6,357.15	73.86	87.073		
6,300.00	5,180.63	5,274.13	5,116.85	70.69	27.60	122.32	-4,931.82	1,012.15	6,474.02	6,391.79	82.23	78.732		
6,400.00	5,256.61	5,433.12	5,275.82	72.10	28.01	123.15	-4,932.72	1,014.04	6,516.21	6,432.62	83.60	77.949		
6,500.00	5,332.59	5,513.32	5,356.02	73.51	28.20	123.56	-4,932.53	1,014.78	6,558.21	6,473.53	84.68	77.444		
6,600.00	5,408.56	5,587.71	5,430.41	74.92	28.38	123.94	-4,932.28	1,015.34	6,600.55	6,514.81	85.74	76.984		
6,700.00	5,484.54	5,669.69	5,512.38	76.34	28.58	124.36	-4,931.98	1,015.86	6,643.25	6,556.44	86.81	76.529		
6,800.00	5,560.52	5,751.96	5,594.65	77.75	28.78	124.78	-4,931.58	1,016.44	6,686.19	6,598.32	87.86	76.096		
6,900.00	5,636.50	5,830.19	5,672.88	79.16	28.97	125.17	-4,931.18	1,016.99	6,729.46	6,640.56	88.90	75.698		
7,000.00	5,712.47	5,914.89	5,757.58	80.57	29.17	125.59	-4,930.64	1,017.48	6,773.00	6,683.06	89.94	75.305		
7,100.00	5,788.45	6,004.16	5,846.84	81.99	29.38	126.03	-4,929.87	1,017.88	6,816.75	6,725.77	90.98	74.923		
7,200.00	5,864.43	6,091.60	5,934.27	83.40	29.59	126.46	-4,928.94	1,018.24	6,860.70	6,768.69	92.01	74.566		
7,300.00	5,940.40	6,178.73	6,021.40	84.81	29.79	126.88	-4,927.85	1,018.59	6,904.85	6,811.83	93.02	74.228		
7,400.00	6,016.38	6,256.17	6,098.83	86.23	29.97	127.25	-4,926.82	1,018.89	6,949.25	6,855.25	94.00	73.932		
7,500.00	6,092.36	6,365.67	6,208.31	87.64	30.23	127.77	-4,925.16	1,019.39	6,993.83	6,898.77	95.06	73.572		
7,600.00	6,168.34	6,468.02	6,310.64	89.05	30.48	128.25	-4,923.12	1,019.94	7,038.33	6,942.24	96.09	73.244		
7,700.00	6,244.31	6,522.43	6,365.04	90.47	30.61	128.51	-4,922.05	1,020.31	7,083.12	6,986.15	96.97	73.042		
7,800.00	6,320.29	6,578.23	6,420.83	91.88	30.75	128.76	-4,921.26	1,020.91	7,128.45	7,030.60	97.85	72.852		
7,900.00	6,396.27	6,641.48	6,484.08	93.30	30.91	129.05	-4,920.56	1,021.69	7,174.23	7,075.49	98.75	72.653		
8,000.00	6,472.25	6,710.60	6,553.19	94.71	31.10	129.36	-4,919.94	1,022.58	7,220.42	7,120.76	99.66	72.451		
8,100.00	6,548.22	6,795.01	6,637.59	96.12	31.32	129.73	-4,919.26	1,023.76	7,266.91	7,166.29	100.62	72.221		
8,200.00	6,624.20	6,907.67	6,750.22	97.54	31.62	130.22	-4,918.06	1,025.57	7,313.41	7,211.73	101.68	71.925		
8,300.00	6,700.18	6,975.71	6,818.25	98.95	31.80	130.51	-4,917.08	1,026.63	7,359.93	7,257.37	102.56	71.760		
8,400.00	6,776.16	7,022.17	6,864.70	100.37	31.92	130.71	-4,916.42	1,026.95	7,406.99	7,303.63	103.35	71.667		
8,500.00	6,852.13	7,120.55	6,963.07	101.78	32.16	131.14	-4,914.84	1,026.98	7,454.43	7,350.12	104.31	71.467		
8,600.00	6,928.11	7,225.16	7,067.66	103.20	32.42	131.59	-4,912.60	1,026.87	7,501.78	7,396.52	105.26	71.266		
8,700.00	7,004.09	7,331.63	7,174.08	104.61	32.67	132.05	-4,909.63	1,026.31	7,549.10	7,442.89	106.21	71.076		
8,800.00	7,080.06	7,385.97	7,228.40	106.02	32.81	132.29	-4,908.06	1,025.92	7,596.67	7,489.68	106.98	71.009		
8,900.00	7,156.04	7,434.92	7,277.33	107.44	32.92	132.49	-4,906.77	1,025.57	7,644.67	7,536.95	107.73	70.963		
9,000.00	7,232.02	7,474.33	7,316.73	108.85	33.02	132.66	-4,905.99	1,025.38	7,693.27	7,584.84	108.43	70.949		
9,104.68	7,311.55	7,532.88	7,375.28	110.33	33.17	132.90	-4,905.27	1,025.30	7,744.76	7,635.53	109.23	70.904		
9,150.00	7,346.29	7,592.22	7,434.61	110.97	33.33	126.90	-4,904.55	1,025.43	7,765.67	7,655.96	109.71	70.783		
9,200.00	7,385.15	7,647.50	7,489.89	111.65	33.48	120.14	-4,903.82	1,025.74	7,785.29	7,675.06	110.23	70.627		
9,250.00	7,424.29	7,709.85	7,552.22	112.31	33.65	113.44	-4,903.01	1,026.39	7,801.21	7,690.41	110.80	70.407		
9,300.00	7,463.40	7,812.40	7,654.75	112.93	33.93	107.13	-4,901.24	1,028.01	7,813.10	7,701.56	111.55	70.044		
9,350.00	7,502.19	7,865.99	7,708.32	113.51	34.08	100.99	-4,900.15	1,029.03	7,821.06	7,708.95	112.11	69.763		
9,400.00	7,540.36	7,885.00	7,727.32	114.04	34.13	95.22	-4,899.74	1,029.41	7,825.15	7,712.61	112.54	69.533		
9,450.00	7,577.62	7,914.53	7,756.84	114.53	34.21	90.14	-4,899.14	1,029.95	7,825.44	7,712.44	113.00	69.250		
9,500.00	7,613.70	7,931.67	7,773.98	114.95	34.26	85.69	-4,898.82	1,030.20	7,822.00	7,708.59	113.41	68.971		
9,550.00	7,648.30	7,948.05	7,790.35	115.32	34.30	81.94	-4,898.53	1,030.40	7,814.85	7,701.05	113.80	68.672		
9,600.00	7,681.18	7,979.00	7,821.30	115.63	34.39	78.98	-4,898.05	1,030.66	7,804.06	7,689.83	114.23	68.321		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
9,650.00	7,712.08	7,979.00	7,821.30	115.88	34.39	76.51	-4,898.05	1,030.66	7,789.62	7,675.11	114.51	68.024		
9,700.00	7,740.76	8,005.45	7,847.74	116.08	34.46	74.87	-4,897.67	1,030.82	7,771.71	7,656.83	114.88	67.652		
9,750.00	7,767.01	8,031.48	7,873.77	116.23	34.53	73.87	-4,897.29	1,030.99	7,750.39	7,635.18	115.22	67.268		
9,800.00	7,790.63	8,054.81	7,897.10	116.33	34.60	73.51	-4,896.96	1,031.14	7,725.84	7,610.31	115.52	66.878		
9,850.00	7,811.44	8,075.28	7,917.56	116.38	34.65	73.79	-4,896.67	1,031.28	7,698.22	7,582.43	115.79	66.485		
9,900.00	7,829.28	8,092.41	7,934.69	116.38	34.70	74.73	-4,896.43	1,031.39	7,667.74	7,551.72	116.02	66.091		
9,950.00	7,844.01	8,106.44	7,948.72	116.35	34.74	76.39	-4,896.23	1,031.49	7,634.63	7,518.41	116.21	65.697		
10,000.00	7,855.52	8,117.23	7,959.51	116.28	34.77	78.84	-4,896.07	1,031.56	7,599.11	7,482.74	116.37	65.302		
10,050.00	7,863.72	8,124.71	7,966.99	116.18	34.79	82.19	-4,895.96	1,031.61	7,561.44	7,444.95	116.49	64.909		
10,100.00	7,868.56	8,128.82	7,971.10	116.06	34.80	86.57	-4,895.91	1,031.63	7,521.90	7,405.31	116.59	64.516		
10,145.94	7,870.00	8,129.60	7,971.88	115.92	34.80	91.61	-4,895.89	1,031.64	7,484.14	7,367.49	116.65	64.158		
10,200.00	7,870.00	8,128.83	7,971.11	115.76	34.80	91.60	-4,895.91	1,031.63	7,439.06	7,322.35	116.71	63.738		
10,300.00	7,870.00	8,127.41	7,969.69	115.46	34.80	91.58	-4,895.93	1,031.62	7,355.99	7,239.16	116.83	62.963		
10,400.00	7,870.00	8,125.99	7,968.26	115.18	34.79	91.56	-4,895.95	1,031.61	7,273.35	7,156.39	116.95	62.190		
10,500.00	7,870.00	8,124.56	7,966.84	114.91	34.79	91.54	-4,895.97	1,031.60	7,191.15	7,074.06	117.08	61.419		
10,600.00	7,870.00	8,123.14	7,965.42	114.65	34.78	91.52	-4,895.99	1,031.60	7,109.40	6,992.18	117.22	60.651		
10,700.00	7,870.00	8,121.72	7,964.00	114.41	34.78	91.50	-4,896.01	1,031.59	7,028.13	6,910.77	117.36	59.885		
10,800.00	7,870.00	8,120.31	7,962.58	114.17	34.78	91.48	-4,896.03	1,031.58	6,947.34	6,829.83	117.51	59.122		
10,900.00	7,870.00	8,118.89	7,961.17	113.95	34.77	91.46	-4,896.05	1,031.57	6,867.06	6,749.39	117.66	58.361		
11,000.00	7,870.00	8,117.47	7,959.75	113.75	34.77	91.44	-4,896.07	1,031.56	6,787.30	6,669.47	117.83	57.604		
11,100.00	7,870.00	8,116.05	7,958.33	113.55	34.76	91.42	-4,896.09	1,031.55	6,708.09	6,590.09	118.00	56.849		
11,200.00	7,870.00	8,114.64	7,956.92	113.37	34.76	91.40	-4,896.11	1,031.54	6,629.43	6,511.26	118.18	56.098		
11,300.00	7,870.00	8,113.22	7,955.50	113.20	34.76	91.38	-4,896.13	1,031.53	6,551.36	6,433.00	118.36	55.350		
11,400.00	7,870.00	8,111.81	7,954.09	113.04	34.75	91.36	-4,896.15	1,031.52	6,473.89	6,355.34	118.56	54.605		
11,500.00	7,870.00	8,110.40	7,952.68	112.89	34.75	91.35	-4,896.17	1,031.51	6,397.05	6,278.29	118.76	53.865		
11,600.00	7,870.00	8,108.99	7,951.27	112.76	34.74	91.33	-4,896.19	1,031.50	6,320.85	6,201.88	118.97	53.128		
11,700.00	7,870.00	8,107.58	7,949.86	112.64	34.74	91.31	-4,896.21	1,031.49	6,245.33	6,126.13	119.19	52.396		
11,800.00	7,870.00	8,106.17	7,948.45	112.53	34.74	91.29	-4,896.23	1,031.49	6,170.50	6,051.07	119.43	51.668		
11,900.00	7,870.00	8,104.76	7,947.04	112.44	34.73	91.27	-4,896.25	1,031.48	6,096.39	5,976.73	119.67	50.945		
12,000.00	7,870.00	8,103.35	7,945.63	112.36	34.73	91.25	-4,896.27	1,031.47	6,023.03	5,903.12	119.92	50.227		
12,100.00	7,870.00	8,101.94	7,944.22	112.29	34.73	91.23	-4,896.29	1,031.46	5,950.45	5,830.27	120.18	49.514		
12,200.00	7,870.00	8,100.53	7,942.82	112.24	34.72	91.21	-4,896.31	1,031.45	5,878.67	5,758.22	120.45	48.807		
12,300.00	7,870.00	8,099.13	7,941.41	112.20	34.72	91.19	-4,896.33	1,031.44	5,807.73	5,687.00	120.73	48.105		
12,400.00	7,870.00	8,097.72	7,940.00	112.17	34.71	91.17	-4,896.35	1,031.43	5,737.65	5,616.62	121.02	47.410		
12,500.00	7,870.00	8,096.32	7,938.60	112.16	34.71	91.15	-4,896.37	1,031.42	5,668.47	5,547.14	121.33	46.721		
12,600.00	7,870.00	8,094.92	7,937.20	112.17	34.71	91.13	-4,896.39	1,031.41	5,600.22	5,478.57	121.64	46.038		
12,700.00	7,870.00	8,093.51	7,935.80	112.19	34.70	91.11	-4,896.41	1,031.40	5,532.93	5,410.96	121.97	45.363		
12,800.00	7,870.00	8,092.11	7,934.39	112.23	34.70	91.09	-4,896.43	1,031.39	5,466.64	5,344.34	122.31	44.696		
12,900.00	7,870.00	8,090.71	7,932.99	112.28	34.69	91.07	-4,896.45	1,031.38	5,401.40	5,278.74	122.66	44.036		
13,000.00	7,870.00	8,089.31	7,931.59	112.36	34.69	91.05	-4,896.47	1,031.37	5,337.23	5,214.21	123.02	43.385		
13,100.00	7,870.00	8,087.91	7,930.19	112.45	34.69	91.03	-4,896.49	1,031.36	5,274.17	5,150.78	123.39	42.743		
13,200.00	7,870.00	8,086.51	7,928.80	112.56	34.68	91.01	-4,896.51	1,031.36	5,212.27	5,088.49	123.78	42.110		
13,300.00	7,870.00	8,085.12	7,927.40	112.68	34.68	90.99	-4,896.53	1,031.35	5,151.57	5,027.39	124.18	41.486		
13,400.00	7,870.00	8,084.09	7,926.38	112.83	34.68	90.98	-4,896.54	1,031.34	5,092.10	4,967.52	124.59	40.872		
13,500.00	7,870.00	8,082.65	7,924.93	113.00	34.67	90.96	-4,896.56	1,031.33	5,033.92	4,908.92	125.01	40.270		
13,600.00	7,870.00	8,081.20	7,923.49	113.19	34.67	90.94	-4,896.59	1,031.32	4,977.07	4,851.63	125.44	39.678		
13,700.00	7,870.00	8,079.76	7,922.04	113.40	34.66	90.92	-4,896.61	1,031.31	4,921.59	4,795.72	125.88	39.099		
13,800.00	7,870.00	8,078.31	7,920.60	113.63	34.66	90.90	-4,896.63	1,031.30	4,867.54	4,741.21	126.33	38.531		
13,900.00	7,870.00	8,076.86	7,919.15	113.89	34.66	90.88	-4,896.65	1,031.29	4,814.96	4,688.17	126.79	37.977		
14,000.00	7,870.00	8,075.42	7,917.70	114.18	34.65	90.86	-4,896.67	1,031.28	4,763.89	4,636.63	127.26	37.435		
14,100.00	7,870.00	8,073.97	7,916.25	114.48	34.65	90.84	-4,896.69	1,031.27	4,714.39	4,586.66	127.73	36.908		
14,200.00	7,870.00	8,072.52	7,914.80	114.82	34.64	90.82	-4,896.71	1,031.26	4,666.51	4,538.29	128.22	36.395		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
14,300.00	7,870.00	8,071.07	7,913.35	115.18	34.64	90.80	-4,896.73	1,031.25	4,620.30	4,491.59	128.71	35.897		
14,400.00	7,870.00	8,069.61	7,911.90	115.57	34.64	90.78	-4,896.75	1,031.24	4,575.81	4,446.60	129.21	35.415		
14,500.00	7,870.00	8,068.16	7,910.45	115.99	34.63	90.76	-4,896.77	1,031.23	4,533.08	4,403.37	129.71	34.949		
14,600.00	7,870.00	8,066.71	7,908.99	116.44	34.63	90.74	-4,896.79	1,031.22	4,492.18	4,361.97	130.21	34.499		
14,700.00	7,870.00	8,065.25	7,907.54	116.92	34.62	90.72	-4,896.81	1,031.21	4,453.14	4,322.42	130.72	34.067		
14,800.00	7,870.00	8,063.80	7,906.08	117.44	34.62	90.70	-4,896.83	1,031.20	4,416.03	4,284.80	131.22	33.653		
14,900.00	7,870.00	8,062.34	7,904.63	117.98	34.62	90.68	-4,896.85	1,031.19	4,380.88	4,249.15	131.73	33.257		
15,000.00	7,870.00	8,060.89	7,903.17	118.56	34.61	90.66	-4,896.87	1,031.18	4,347.75	4,215.52	132.23	32.880		
15,100.00	7,870.00	8,059.43	7,901.71	119.17	34.61	90.64	-4,896.89	1,031.17	4,316.68	4,183.95	132.73	32.523		
15,200.00	7,870.00	8,057.97	7,900.26	119.81	34.60	90.62	-4,896.91	1,031.16	4,287.72	4,154.50	133.22	32.185		
15,300.00	7,870.00	8,056.51	7,898.80	120.48	34.60	90.60	-4,896.94	1,031.15	4,260.90	4,127.20	133.70	31.868		
15,400.00	7,870.00	8,055.05	7,897.34	121.19	34.60	90.58	-4,896.96	1,031.14	4,236.28	4,102.11	134.18	31.572		
15,500.00	7,870.00	8,053.59	7,895.87	121.93	34.59	90.55	-4,896.98	1,031.13	4,213.89	4,079.25	134.64	31.297		
15,600.00	7,870.00	8,052.13	7,894.41	122.71	34.59	90.53	-4,897.00	1,031.12	4,193.76	4,058.67	135.09	31.044		
15,700.00	7,870.00	8,050.66	7,892.95	123.52	34.58	90.51	-4,897.02	1,031.12	4,175.93	4,040.41	135.53	30.813		
15,800.00	7,870.00	8,049.20	7,891.49	124.36	34.58	90.49	-4,897.04	1,031.11	4,160.43	4,024.49	135.94	30.604		
15,900.00	7,870.00	8,047.73	7,890.02	125.23	34.58	90.47	-4,897.06	1,031.10	4,147.29	4,010.94	136.34	30.418		
16,000.00	7,870.00	8,046.27	7,888.56	126.14	34.57	90.45	-4,897.08	1,031.09	4,136.51	3,999.79	136.73	30.254		
16,100.00	7,870.00	8,044.80	7,887.09	127.07	34.57	90.43	-4,897.10	1,031.08	4,128.14	3,991.05	137.09	30.113		
16,200.00	7,870.00	8,043.33	7,885.62	128.04	34.56	90.41	-4,897.12	1,031.07	4,122.17	3,984.74	137.42	29.996		
16,300.00	7,870.00	8,041.86	7,884.15	129.04	34.56	90.39	-4,897.14	1,031.06	4,118.62	3,980.88	137.74	29.901		
16,396.27	7,870.00	8,040.45	7,882.74	130.02	34.56	90.37	-4,897.16	1,031.05	4,117.49	3,979.47	138.02	29.832		
16,400.00	7,870.00	8,040.40	7,882.68	130.06	34.56	90.37	-4,897.17	1,031.05	4,117.49	3,979.46	138.03	29.830 ES		
16,500.00	7,870.00	8,038.93	7,881.21	131.11	34.55	90.35	-4,897.19	1,031.04	4,118.80	3,980.50	138.30	29.782		
16,600.00	7,870.00	8,037.45	7,879.74	132.19	34.55	90.33	-4,897.21	1,031.03	4,122.53	3,983.99	138.54	29.758		
16,700.00	7,870.00	8,035.98	7,878.27	133.29	34.54	90.31	-4,897.23	1,031.02	4,128.68	3,989.93	138.75	29.756 SF		
16,800.00	7,870.00	8,034.51	7,876.80	134.42	34.54	90.29	-4,897.25	1,031.01	4,137.23	3,998.29	138.94	29.777		
16,900.00	7,870.00	8,033.04	7,875.33	135.57	34.54	90.27	-4,897.27	1,031.00	4,148.18	4,009.08	139.10	29.821		
17,000.00	7,870.00	8,031.56	7,873.85	136.75	34.53	90.25	-4,897.29	1,030.99	4,161.51	4,022.27	139.24	29.888		
17,100.00	7,870.00	8,030.09	7,872.38	137.94	34.53	90.23	-4,897.31	1,030.98	4,177.19	4,037.84	139.35	29.977		
17,200.00	7,870.00	8,028.61	7,870.90	139.16	34.52	90.21	-4,897.33	1,030.97	4,195.19	4,055.76	139.43	30.088		
17,300.00	7,870.00	8,027.13	7,869.42	140.39	34.52	90.19	-4,897.35	1,030.96	4,215.48	4,075.99	139.49	30.220		
17,400.00	7,870.00	8,025.65	7,867.94	141.65	34.52	90.17	-4,897.38	1,030.95	4,238.04	4,098.52	139.53	30.375		
17,500.00	7,870.00	8,024.17	7,866.47	142.92	34.51	90.15	-4,897.40	1,030.94	4,262.83	4,123.29	139.54	30.550		
17,600.00	7,870.00	8,022.69	7,864.99	144.21	34.51	90.13	-4,897.42	1,030.93	4,289.80	4,150.28	139.53	30.745		
17,700.00	7,870.00	8,021.21	7,863.50	145.52	34.50	90.10	-4,897.44	1,030.92	4,318.92	4,179.43	139.49	30.961		
17,800.00	7,870.00	8,019.73	7,862.02	146.84	34.50	90.08	-4,897.46	1,030.91	4,350.15	4,210.71	139.44	31.197		
17,900.00	7,870.00	8,018.25	7,860.54	148.18	34.50	90.06	-4,897.48	1,030.90	4,383.43	4,244.06	139.37	31.452		
18,000.00	7,870.00	8,016.77	7,859.06	149.54	34.49	90.04	-4,897.50	1,030.89	4,418.73	4,279.45	139.28	31.726		
18,100.00	7,870.00	8,015.28	7,857.57	150.90	34.49	90.02	-4,897.52	1,030.89	4,455.99	4,316.82	139.17	32.018		
18,200.00	7,870.00	8,013.80	7,856.09	152.28	34.48	90.00	-4,897.55	1,030.88	4,495.17	4,356.12	139.05	32.328		
18,300.00	7,870.00	8,012.31	7,854.60	153.67	34.48	89.98	-4,897.57	1,030.87	4,536.21	4,397.29	138.91	32.655		
18,400.00	7,870.00	8,010.82	7,853.11	155.07	34.48	89.96	-4,897.59	1,030.86	4,579.07	4,440.30	138.76	32.999		
18,500.00	7,870.00	8,009.33	7,851.63	156.49	34.47	89.94	-4,897.61	1,030.85	4,623.69	4,485.09	138.60	33.360		
18,600.00	7,870.00	8,007.84	7,850.14	157.91	34.47	89.92	-4,897.63	1,030.84	4,670.03	4,531.60	138.43	33.736		
18,700.00	7,870.00	8,006.35	7,848.65	159.35	34.46	89.90	-4,897.65	1,030.83	4,718.03	4,579.78	138.25	34.128		
18,800.00	7,870.00	8,004.86	7,847.16	160.79	34.46	89.88	-4,897.67	1,030.82	4,767.65	4,629.59	138.05	34.534		
18,900.00	7,870.00	8,003.37	7,845.67	162.25	34.46	89.86	-4,897.70	1,030.81	4,818.83	4,680.97	137.86	34.955		
19,000.00	7,870.00	8,001.88	7,844.17	163.71	34.45	89.84	-4,897.72	1,030.80	4,871.52	4,733.87	137.65	35.390		
19,100.00	7,870.00	8,000.39	7,842.68	165.18	34.45	89.81	-4,897.74	1,030.79	4,925.68	4,788.24	137.44	35.839		
19,200.00	7,870.00	7,998.89	7,841.19	166.66	34.44	89.79	-4,897.76	1,030.78	4,981.26	4,844.04	137.23	36.300		
19,300.00	7,870.00	7,997.40	7,839.69	168.15	34.44	89.77	-4,897.78	1,030.77	5,038.22	4,901.21	137.01	36.773		

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

Offset Design		SEC 22-T1N-R68W - EXIST HZ STIPANOVICH 8-2-27 - OWB - FINAL SURVEY										Offset Site Error:	0.00 usft
Survey Program:		92-MWD OWSG										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,870.00	7,995.90	7,838.19	169.65	34.43	89.75	-4,897.80	1,030.76	5,096.49	4,959.71	136.78	37.259	
19,500.00	7,870.00	7,994.40	7,836.70	171.15	34.43	89.73	-4,897.82	1,030.75	5,156.05	5,019.49	136.56	37.757	
19,600.00	7,870.00	7,992.90	7,835.20	172.66	34.43	89.71	-4,897.85	1,030.74	5,216.84	5,080.51	136.33	38.265	
19,700.00	7,870.00	7,991.41	7,833.70	174.18	34.42	89.69	-4,897.87	1,030.74	5,278.83	5,142.73	136.11	38.784	
19,800.00	7,870.00	7,989.91	7,832.20	175.70	34.42	89.67	-4,897.89	1,030.73	5,341.97	5,206.09	135.88	39.314	
19,889.26	7,870.00	7,988.57	7,830.86	177.06	34.41	89.65	-4,897.91	1,030.72	5,399.27	5,263.59	135.68	39.795	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	135.65	-2,139.01	2,090.96	2,991.62					
100.00	100.00	53.29	53.29	0.13	0.09	135.65	-2,138.95	2,091.01	2,991.22	2,991.01	0.22	N/A		
200.00	200.00	159.54	159.54	0.49	0.37	135.64	-2,138.54	2,091.24	2,991.11	2,990.24	0.86	3,459.252		
300.00	300.00	258.86	258.86	0.85	0.72	135.64	-2,138.22	2,091.14	2,990.80	2,989.23	1.57	1,903.347		
400.00	399.98	354.31	354.30	1.21	1.05	67.54	-2,138.32	2,090.85	2,990.00	2,987.74	2.26	1,325.613		
500.00	499.84	454.63	454.63	1.56	1.40	67.68	-2,138.53	2,090.55	2,987.94	2,984.98	2.96	1,009.093		
600.00	599.45	555.84	555.84	1.93	1.76	67.91	-2,138.92	2,089.96	2,984.50	2,980.82	3.68	810.131		
700.00	698.70	656.93	656.92	2.32	2.12	68.24	-2,139.35	2,089.27	2,979.76	2,975.33	4.42	673.625		
800.00	797.47	765.05	765.03	2.72	2.50	68.68	-2,139.84	2,088.25	2,973.62	2,968.41	5.21	570.785		
900.00	895.62	866.05	866.02	3.16	2.86	69.19	-2,140.28	2,086.85	2,966.02	2,960.02	6.00	494.573		
1,000.00	993.06	952.80	952.76	3.63	3.17	69.73	-2,140.80	2,085.66	2,957.45	2,950.68	6.77	437.164		
1,100.00	1,089.64	1,039.34	1,039.30	4.14	3.48	70.34	-2,141.67	2,084.67	2,948.29	2,940.72	7.57	389.493		
1,200.00	1,185.27	1,138.38	1,138.32	4.70	3.84	71.09	-2,142.82	2,083.52	2,938.33	2,929.87	8.46	347.237		
1,300.00	1,279.82	1,240.79	1,240.71	5.31	4.20	71.96	-2,143.80	2,082.05	2,927.24	2,917.83	9.42	310.885		
1,400.00	1,373.17	1,332.80	1,332.71	5.97	4.53	72.84	-2,144.76	2,080.53	2,915.42	2,905.03	10.39	280.684		
1,500.00	1,465.21	1,424.24	1,424.13	6.69	4.86	73.79	-2,145.79	2,078.96	2,903.06	2,891.65	11.41	254.330		
1,600.00	1,555.84	1,515.98	1,515.85	7.47	5.19	74.82	-2,146.80	2,077.33	2,890.26	2,877.75	12.51	231.099		
1,700.00	1,644.94	1,602.06	1,601.91	8.31	5.50	75.86	-2,147.80	2,075.75	2,877.22	2,863.57	13.65	210.850		
1,800.00	1,732.39	1,687.24	1,687.07	9.23	5.81	76.96	-2,148.82	2,074.22	2,864.16	2,849.31	14.85	192.840		
1,900.00	1,818.11	1,773.81	1,773.62	10.21	6.12	78.13	-2,149.81	2,072.73	2,851.19	2,835.05	16.14	176.676		
2,000.00	1,901.97	1,863.96	1,863.75	11.26	6.45	79.39	-2,150.71	2,071.14	2,838.38	2,820.87	17.51	162.081		
2,100.00	1,983.88	1,952.16	1,951.93	12.38	6.76	80.68	-2,151.33	2,069.49	2,825.80	2,806.84	18.96	149.062		
2,200.00	2,063.74	2,035.22	2,034.98	13.57	7.06	81.96	-2,151.71	2,067.93	2,813.72	2,793.26	20.46	137.504		
2,300.00	2,141.45	2,114.46	2,114.20	14.84	7.35	83.22	-2,151.96	2,066.45	2,802.44	2,780.41	22.03	127.187		
2,327.78	2,162.65	2,136.73	2,136.48	15.21	7.43	83.58	-2,152.01	2,066.04	2,799.48	2,776.99	22.48	124.507		
2,400.00	2,217.51	2,194.51	2,194.24	16.17	7.63	84.37	-2,152.04	2,065.04	2,792.23	2,768.56	23.67	117.970		
2,500.00	2,293.49	2,277.47	2,277.19	17.51	7.93	85.49	-2,151.84	2,063.67	2,783.36	2,758.03	25.33	109.870		
2,600.00	2,369.47	2,349.73	2,349.44	18.86	8.19	86.47	-2,151.51	2,062.53	2,775.93	2,748.96	26.97	102.920		
2,700.00	2,445.45	2,418.89	2,418.59	20.22	8.43	87.42	-2,151.33	2,061.55	2,770.22	2,741.61	28.61	96.838		
2,800.00	2,521.42	2,490.57	2,490.26	21.59	8.69	88.39	-2,151.26	2,060.53	2,766.19	2,735.94	30.25	91.431		
2,900.00	2,597.40	2,591.09	2,590.77	22.97	9.05	89.77	-2,150.91	2,058.82	2,763.48	2,731.48	32.00	86.355		
3,000.00	2,673.38	2,671.14	2,670.80	24.34	9.33	90.87	-2,150.20	2,057.14	2,761.87	2,728.20	33.67	82.021		
3,100.00	2,749.36	2,773.88	2,773.51	25.73	9.70	92.28	-2,148.87	2,054.84	2,761.55	2,726.14	35.41	77.984		
3,107.10	2,754.75	2,782.25	2,781.87	25.83	9.72	92.40	-2,148.71	2,054.65	2,761.55	2,726.01	35.54	77.706 CC		
3,200.00	2,825.33	2,857.39	2,856.97	27.11	9.99	93.43	-2,147.05	2,052.80	2,762.09	2,725.01	37.08	74.499 ES		
3,300.00	2,901.31	2,926.62	2,926.16	28.50	10.23	94.38	-2,145.63	2,050.90	2,764.25	2,725.57	38.68	71.464		
3,400.00	2,977.29	2,990.34	2,989.85	29.90	10.46	95.26	-2,144.49	2,049.34	2,768.26	2,728.01	40.25	68.773		
3,500.00	3,053.27	3,063.73	3,063.22	31.29	10.72	96.26	-2,143.28	2,047.89	2,774.04	2,732.20	41.84	66.304		
3,600.00	3,129.24	3,133.96	3,133.43	32.69	10.97	97.21	-2,142.08	2,046.82	2,781.40	2,738.01	43.39	64.096		
3,700.00	3,205.22	3,199.23	3,198.68	34.08	11.20	98.09	-2,141.16	2,045.90	2,790.53	2,745.62	44.91	62.133		
3,800.00	3,281.20	3,264.58	3,264.02	35.48	11.43	98.96	-2,140.46	2,045.11	2,801.44	2,755.03	46.41	60.367		
3,900.00	3,357.18	3,331.03	3,330.47	36.88	11.66	99.85	-2,139.95	2,044.51	2,814.10	2,766.21	47.88	58.772		
4,000.00	3,433.15	3,398.78	3,398.22	38.29	11.90	100.74	-2,139.59	2,044.10	2,828.43	2,779.10	49.34	57.330		
4,100.00	3,509.13	3,472.78	3,472.22	39.69	12.16	101.71	-2,139.32	2,043.77	2,844.32	2,793.54	50.79	56.004		
4,200.00	3,585.11	3,547.66	3,547.10	41.09	12.43	102.69	-2,139.08	2,043.43	2,861.65	2,809.44	52.22	54.804		
4,300.00	3,661.08	3,623.30	3,622.73	42.50	12.70	103.67	-2,138.85	2,043.09	2,880.37	2,826.75	53.62	53.718		
4,400.00	3,737.06	3,699.67	3,699.10	43.90	12.97	104.65	-2,138.61	2,042.77	2,900.43	2,845.43	55.00	52.735		
4,500.00	3,813.04	3,775.48	3,774.91	45.31	13.24	105.61	-2,138.36	2,042.49	2,921.79	2,865.44	56.35	51.853		
4,600.00	3,889.02	3,849.38	3,848.82	46.71	13.50	106.54	-2,138.14	2,042.25	2,944.46	2,886.80	57.66	51.066		
4,700.00	3,964.99	3,923.01	3,922.45	48.12	13.76	107.46	-2,137.98	2,042.05	2,968.46	2,909.52	58.94	50.362		
4,800.00	4,040.97	3,997.75	3,997.18	49.53	14.03	108.38	-2,137.85	2,041.65	2,993.72	2,933.52	60.20	49.729		
4,900.00	4,116.95	4,076.97	4,076.39	50.94	14.31	109.35	-2,137.67	2,041.01	3,020.15	2,958.70	61.45	49.149		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,192.93	4,156.11	4,155.53	52.35	14.59	110.32	-2,137.38	2,040.15	3,047.68	2,985.01	62.67	48.633		
5,100.00	4,268.90	4,237.38	4,236.79	53.76	14.88	111.30	-2,136.95	2,038.93	3,076.26	3,012.39	63.86	48.169		
5,200.00	4,344.88	4,319.64	4,319.04	55.16	15.18	112.29	-2,136.29	2,037.64	3,105.78	3,040.75	65.04	47.755		
5,300.00	4,420.86	4,395.40	4,394.79	56.57	15.45	113.18	-2,135.61	2,036.40	3,136.34	3,070.19	66.15	47.411		
5,400.00	4,496.84	4,464.61	4,463.98	57.98	15.70	113.99	-2,135.02	2,035.16	3,168.04	3,100.82	67.21	47.134		
5,500.00	4,572.81	4,543.93	4,543.28	59.39	15.98	114.91	-2,134.41	2,033.50	3,200.87	3,132.58	68.29	46.872		
5,600.00	4,648.79	4,628.20	4,627.52	60.81	16.28	115.88	-2,133.39	2,031.39	3,234.47	3,165.11	69.36	46.634		
5,700.00	4,724.77	4,702.11	4,701.40	62.22	16.55	116.72	-2,132.43	2,029.46	3,269.01	3,198.66	70.36	46.464		
5,800.00	4,800.74	4,774.39	4,773.65	63.63	16.81	117.53	-2,131.52	2,027.58	3,304.57	3,233.25	71.32	46.333		
5,900.00	4,876.72	4,850.61	4,849.84	65.04	17.08	118.38	-2,130.61	2,025.65	3,341.10	3,268.82	72.28	46.223		
6,000.00	4,952.70	4,926.45	4,925.66	66.45	17.36	119.20	-2,129.65	2,023.82	3,378.48	3,305.26	73.22	46.142		
6,100.00	5,028.68	4,997.84	4,997.02	67.86	17.61	119.96	-2,128.80	2,022.12	3,416.79	3,342.67	74.11	46.102		
6,200.00	5,104.65	5,074.49	5,073.64	69.27	17.89	120.77	-2,127.92	2,020.34	3,455.96	3,380.95	75.01	46.073		
6,300.00	5,180.63	5,149.94	5,149.06	70.69	18.16	121.56	-2,127.03	2,018.63	3,495.92	3,420.03	75.88	46.070		
6,400.00	5,256.61	5,238.35	5,237.44	72.10	18.47	122.46	-2,125.93	2,016.70	3,536.62	3,459.82	76.79	46.053		
6,500.00	5,332.59	5,339.05	5,338.11	73.51	18.83	123.46	-2,124.07	2,015.06	3,577.48	3,499.73	77.75	46.015		
6,600.00	5,408.56	5,421.75	5,420.80	74.92	19.12	124.26	-2,122.34	2,014.05	3,618.82	3,540.22	78.60	46.042		
6,700.00	5,484.54	5,504.74	5,503.76	76.34	19.42	125.05	-2,120.55	2,013.35	3,660.70	3,581.26	79.44	46.082		
6,800.00	5,560.52	5,580.86	5,579.86	77.75	19.68	125.76	-2,118.93	2,012.99	3,703.18	3,622.95	80.23	46.156		
6,900.00	5,636.50	5,655.07	5,654.05	79.16	19.94	126.43	-2,117.44	2,012.84	3,746.31	3,665.31	81.00	46.249		
7,000.00	5,712.47	5,727.90	5,726.87	80.57	20.19	127.08	-2,116.06	2,012.71	3,790.11	3,708.36	81.76	46.359		
7,100.00	5,788.45	5,799.84	5,798.81	81.99	20.44	127.71	-2,114.77	2,012.60	3,834.58	3,752.09	82.49	46.486		
7,200.00	5,864.43	5,876.10	5,875.05	83.40	20.71	128.37	-2,113.47	2,012.49	3,879.66	3,796.43	83.23	46.613		
7,300.00	5,940.40	5,951.17	5,950.11	84.81	20.97	129.01	-2,112.19	2,012.39	3,925.30	3,841.34	83.96	46.754		
7,400.00	6,016.38	6,024.41	6,023.34	86.23	21.22	129.62	-2,110.98	2,012.29	3,971.50	3,886.83	84.66	46.910		
7,500.00	6,092.36	6,095.27	6,094.19	87.64	21.47	130.20	-2,109.91	2,012.19	4,018.29	3,932.95	85.34	47.083		
7,600.00	6,168.34	6,176.93	6,175.84	89.05	21.76	130.86	-2,108.67	2,012.07	4,065.59	3,979.52	86.07	47.235		
7,700.00	6,244.31	6,260.83	6,259.73	90.47	22.05	131.53	-2,107.23	2,011.91	4,113.24	4,026.43	86.80	47.387		
7,800.00	6,320.29	6,333.10	6,331.99	91.88	22.30	132.09	-2,105.88	2,011.75	4,161.25	4,073.79	87.46	47.578		
7,900.00	6,396.27	6,394.75	6,393.63	93.30	22.52	132.56	-2,104.95	2,011.66	4,209.93	4,121.87	88.06	47.808		
8,000.00	6,472.25	6,467.36	6,466.23	94.71	22.77	133.11	-2,104.07	2,011.58	4,259.21	4,170.51	88.71	48.014		
8,100.00	6,548.22	6,541.49	6,540.35	96.12	23.03	133.65	-2,103.20	2,011.47	4,308.95	4,219.59	89.36	48.221		
8,200.00	6,624.20	6,615.23	6,614.10	97.54	23.29	134.19	-2,102.35	2,011.34	4,359.11	4,269.11	90.00	48.435		
8,300.00	6,700.18	6,686.07	6,684.93	98.95	23.54	134.69	-2,101.62	2,011.22	4,409.73	4,319.11	90.62	48.663		
8,400.00	6,776.16	6,764.47	6,763.33	100.37	23.81	135.24	-2,100.95	2,011.23	4,460.75	4,369.48	91.27	48.873		
8,500.00	6,852.13	6,859.22	6,858.07	101.78	24.14	135.88	-2,100.22	2,011.74	4,511.99	4,419.97	92.01	49.036		
8,600.00	6,928.11	6,948.84	6,947.68	103.20	24.44	136.47	-2,099.19	2,012.46	4,563.19	4,470.47	92.72	49.214		
8,700.00	7,004.09	7,029.60	7,028.43	104.61	24.72	137.00	-2,098.18	2,013.16	4,614.63	4,521.25	93.38	49.420		
8,800.00	7,080.06	7,113.17	7,112.00	106.02	25.01	137.53	-2,097.07	2,013.96	4,666.29	4,572.24	94.04	49.618		
8,900.00	7,156.04	7,192.10	7,190.91	107.44	25.28	138.02	-2,095.96	2,014.76	4,718.18	4,623.50	94.68	49.832		
9,000.00	7,232.02	7,282.28	7,281.08	108.85	25.59	138.57	-2,094.57	2,015.74	4,770.25	4,674.87	95.38	50.014		
9,104.68	7,311.55	7,399.24	7,398.00	110.33	25.99	139.27	-2,092.29	2,017.34	4,824.66	4,728.43	96.23	50.136		
9,150.00	7,346.29	7,426.91	7,425.66	110.97	26.08	132.86	-2,091.68	2,017.77	4,846.87	4,750.40	96.47	50.240		
9,200.00	7,385.15	7,457.31	7,456.05	111.65	26.19	125.75	-2,091.04	2,018.21	4,868.37	4,771.62	96.75	50.321		
9,250.00	7,424.29	7,487.80	7,486.53	112.31	26.29	118.71	-2,090.46	2,018.62	4,886.58	4,789.56	97.02	50.365		
9,300.00	7,463.40	7,520.98	7,519.71	112.93	26.41	111.92	-2,089.86	2,019.03	4,901.41	4,804.09	97.31	50.367		
9,350.00	7,502.19	7,555.63	7,554.35	113.51	26.53	105.56	-2,089.24	2,019.40	4,912.74	4,815.13	97.61	50.331		
9,400.00	7,540.36	7,589.56	7,588.27	114.04	26.64	99.75	-2,088.62	2,019.71	4,920.53	4,822.64	97.89	50.267		
9,450.00	7,577.62	7,623.68	7,622.38	114.53	26.76	94.60	-2,088.01	2,019.97	4,924.74	4,826.58	98.16	50.173		
9,500.00	7,613.70	7,657.15	7,655.85	114.95	26.88	90.16	-2,087.43	2,020.23	4,925.37	4,826.97	98.40	50.053		
9,550.00	7,648.30	7,689.22	7,687.92	115.32	26.99	86.44	-2,086.89	2,020.48	4,922.45	4,823.83	98.62	49.912		
9,600.00	7,681.18	8,039.33	8,037.44	115.63	28.20	86.36	-2,070.84	2,028.78	4,914.69	4,814.20	100.48	48.910		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,650.00	7,712.08	8,066.26	8,064.28	115.88	28.30	84.16	-2,068.97	2,029.98	4,902.87	4,802.23	100.64	48.717		
9,700.00	7,740.76	8,091.03	8,088.96	116.08	28.38	82.63	-2,067.29	2,031.10	4,887.87	4,787.11	100.76	48.511		
9,750.00	7,767.01	8,100.00	8,097.91	116.23	28.41	81.59	-2,066.69	2,031.51	4,869.83	4,769.06	100.77	48.324		
9,800.00	7,790.63	8,100.00	8,097.91	116.33	28.41	81.06	-2,066.69	2,031.51	4,848.96	4,748.24	100.72	48.144		
9,850.00	7,811.44	8,100.00	8,097.91	116.38	28.41	81.14	-2,066.69	2,031.51	4,825.38	4,724.75	100.64	47.949		
9,900.00	7,829.28	8,129.47	8,127.29	116.38	28.51	82.22	-2,064.84	2,032.82	4,799.03	4,698.35	100.68	47.665		
9,950.00	7,844.01	8,134.70	8,132.51	116.35	28.53	83.64	-2,064.54	2,033.04	4,770.41	4,669.83	100.58	47.427		
10,000.00	7,855.52	8,138.55	8,136.35	116.28	28.55	85.71	-2,064.32	2,033.20	4,739.58	4,639.12	100.46	47.177		
10,050.00	7,863.72	8,140.97	8,138.76	116.18	28.55	88.47	-2,064.19	2,033.29	4,706.74	4,606.42	100.32	46.915		
10,100.00	7,868.56	8,141.92	8,139.71	116.06	28.56	91.94	-2,064.14	2,033.33	4,672.10	4,571.93	100.17	46.642		
10,145.94	7,870.00	8,141.47	8,139.26	115.92	28.56	95.80	-2,064.16	2,033.32	4,638.89	4,538.88	100.02	46.380		
10,200.00	7,870.00	8,140.17	8,137.97	115.76	28.55	95.77	-2,064.23	2,033.26	4,599.25	4,499.42	99.84	46.068		
10,300.00	7,870.00	8,137.74	8,135.53	115.46	28.54	95.73	-2,064.37	2,033.16	4,526.71	4,427.22	99.49	45.497		
10,400.00	7,870.00	8,135.24	8,133.04	115.18	28.53	95.68	-2,064.51	2,033.06	4,455.23	4,356.09	99.15	44.936		
10,500.00	7,870.00	8,132.68	8,130.49	114.91	28.53	95.64	-2,064.66	2,032.95	4,384.86	4,286.07	98.79	44.385		
10,600.00	7,870.00	8,130.06	8,127.88	114.65	28.52	95.59	-2,064.81	2,032.84	4,315.66	4,217.23	98.43	43.843		
10,700.00	7,870.00	8,127.37	8,125.19	114.41	28.51	95.54	-2,064.97	2,032.73	4,247.68	4,149.61	98.07	43.312		
10,800.00	7,870.00	8,124.61	8,122.44	114.17	28.50	95.49	-2,065.13	2,032.61	4,180.99	4,083.28	97.71	42.791		
10,900.00	7,870.00	8,121.78	8,119.62	113.95	28.49	95.44	-2,065.30	2,032.49	4,115.63	4,018.29	97.34	42.281		
11,000.00	7,870.00	8,100.00	8,097.91	113.75	28.41	95.04	-2,066.69	2,031.51	4,051.78	3,954.94	96.84	41.839		
11,100.00	7,870.00	8,100.00	8,097.91	113.55	28.41	95.04	-2,066.69	2,031.51	3,989.29	3,892.80	96.49	41.343		
11,200.00	7,870.00	8,100.00	8,097.91	113.37	28.41	95.04	-2,066.69	2,031.51	3,928.36	3,832.21	96.15	40.858		
11,300.00	7,870.00	8,100.00	8,097.91	113.20	28.41	95.04	-2,066.69	2,031.51	3,869.04	3,773.23	95.81	40.383		
11,400.00	7,870.00	8,100.00	8,097.91	113.04	28.41	95.04	-2,066.69	2,031.51	3,811.43	3,715.95	95.48	39.919		
11,500.00	7,870.00	8,106.05	8,103.93	112.89	28.43	95.15	-2,066.29	2,031.79	3,755.59	3,660.39	95.21	39.447		
11,600.00	7,870.00	8,099.41	8,097.32	112.76	28.41	95.03	-2,066.73	2,031.49	3,701.62	3,606.78	94.85	39.027		
11,700.00	7,870.00	8,092.71	8,090.64	112.64	28.39	94.91	-2,067.18	2,031.18	3,649.59	3,555.08	94.50	38.620		
11,800.00	7,870.00	8,085.95	8,083.90	112.53	28.36	94.79	-2,067.64	2,030.87	3,599.56	3,505.39	94.17	38.224		
11,900.00	7,870.00	8,079.11	8,077.09	112.44	28.34	94.66	-2,068.10	2,030.56	3,551.64	3,457.78	93.86	37.841		
12,000.00	7,870.00	8,072.20	8,070.20	112.36	28.32	94.54	-2,068.57	2,030.25	3,505.89	3,412.33	93.57	37.470		
12,100.00	7,870.00	8,065.23	8,063.25	112.29	28.29	94.41	-2,069.04	2,029.93	3,462.42	3,369.12	93.30	37.110		
12,200.00	7,870.00	8,058.18	8,056.22	112.24	28.27	94.28	-2,069.53	2,029.62	3,421.31	3,328.25	93.07	36.762		
12,300.00	7,870.00	8,051.05	8,049.12	112.20	28.24	94.15	-2,070.02	2,029.30	3,382.64	3,289.78	92.86	36.426		
12,400.00	7,870.00	8,043.86	8,041.95	112.17	28.22	94.02	-2,070.52	2,028.98	3,346.50	3,253.80	92.70	36.101		
12,500.00	7,870.00	8,036.58	8,034.70	112.16	28.19	93.89	-2,071.03	2,028.66	3,312.97	3,220.39	92.57	35.788		
12,600.00	7,870.00	8,029.23	8,027.38	112.17	28.17	93.75	-2,071.54	2,028.33	3,282.12	3,189.63	92.49	35.487		
12,700.00	7,870.00	8,021.81	8,019.98	112.19	28.14	93.62	-2,072.07	2,028.01	3,254.05	3,161.59	92.45	35.197		
12,800.00	7,870.00	8,014.30	8,012.49	112.23	28.12	93.48	-2,072.60	2,027.68	3,228.81	3,136.34	92.46	34.919		
12,900.00	7,870.00	8,012.65	8,010.85	112.28	28.11	93.45	-2,072.71	2,027.62	3,206.47	3,113.87	92.60	34.629		
13,000.00	7,870.00	7,998.23	7,996.48	112.36	28.06	93.19	-2,073.75	2,026.99	3,187.10	3,094.47	92.63	34.405		
13,100.00	7,870.00	7,984.18	7,982.47	112.45	28.01	92.93	-2,074.75	2,026.40	3,170.74	3,078.02	92.73	34.193		
13,200.00	7,870.00	7,970.48	7,968.83	112.56	27.97	92.68	-2,075.71	2,025.86	3,157.44	3,064.56	92.88	33.994		
13,300.00	7,870.00	7,957.13	7,955.52	112.68	27.92	92.44	-2,076.64	2,025.36	3,147.23	3,054.13	93.09	33.808		
13,400.00	7,870.00	7,944.11	7,942.54	112.83	27.87	92.20	-2,077.53	2,024.89	3,140.14	3,046.78	93.36	33.636		
13,500.00	7,870.00	7,931.42	7,929.88	113.00	27.83	91.97	-2,078.39	2,024.46	3,136.19	3,042.52	93.67	33.480		
13,574.80	7,870.00	7,922.12	7,920.61	113.14	27.80	91.80	-2,079.01	2,024.16	3,135.31	3,041.36	93.95	33.372		
13,600.00	7,870.00	13,600.00	7,882.56	113.19	47.57	91.11	-2,081.17	2,023.18	3,135.40	3,021.85	113.55	27.614 SF		
13,700.00	7,870.00	7,907.40	7,905.93	113.40	27.75	91.53	-2,079.98	2,023.71	3,137.79	3,043.32	94.47	33.215		
13,800.00	7,870.00	7,895.15	7,893.71	113.63	27.70	91.31	-2,080.78	2,023.36	3,143.32	3,048.39	94.93	33.113		
13,900.00	7,870.00	7,884.67	7,883.25	113.89	27.67	91.12	-2,081.42	2,023.08	3,152.00	3,056.55	95.44	33.025		
14,000.00	7,870.00	7,875.61	7,874.20	114.18	27.64	90.95	-2,081.94	2,022.86	3,163.79	3,067.78	96.01	32.953		
14,100.00	7,870.00	7,867.68	7,866.29	114.48	27.61	90.81	-2,082.36	2,022.67	3,178.68	3,082.06	96.62	32.900		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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)						
14,200.00	7,870.00	7,860.69	7,859.31	114.82	27.59	90.68	-2,082.70	2,022.52	3,196.61	3,099.36	97.25	32.869		
14,300.00	7,870.00	7,854.49	7,853.12	115.18	27.56	90.57	-2,082.99	2,022.38	3,217.55	3,119.63	97.92	32.860		
14,400.00	7,870.00	7,848.95	7,847.58	115.57	27.54	90.47	-2,083.24	2,022.27	3,241.42	3,142.82	98.60	32.874		
14,500.00	7,870.00	7,843.96	7,842.60	115.99	27.53	90.38	-2,083.45	2,022.18	3,268.18	3,168.88	99.30	32.914		
14,600.00	7,870.00	7,839.45	7,838.10	116.44	27.51	90.29	-2,083.63	2,022.10	3,297.75	3,197.75	100.00	32.979		
14,700.00	7,870.00	7,835.36	7,834.01	116.92	27.50	90.22	-2,083.78	2,022.02	3,330.05	3,229.35	100.70	33.069		
14,800.00	7,870.00	7,831.62	7,830.27	117.44	27.48	90.15	-2,083.92	2,021.96	3,365.01	3,263.61	101.40	33.186		
14,900.00	7,870.00	7,828.20	7,826.85	117.98	27.47	90.09	-2,084.04	2,021.90	3,402.55	3,300.46	102.09	33.328		
15,000.00	7,870.00	7,825.05	7,823.71	118.56	27.46	90.03	-2,084.14	2,021.85	3,442.58	3,339.81	102.77	33.497		
15,100.00	7,870.00	7,822.15	7,820.80	119.17	27.45	89.98	-2,084.24	2,021.81	3,485.02	3,381.58	103.44	33.691		
15,200.00	7,870.00	7,819.46	7,818.12	119.81	27.44	89.93	-2,084.32	2,021.77	3,529.78	3,425.69	104.09	33.909		
15,300.00	7,870.00	7,816.96	7,815.62	120.48	27.43	89.88	-2,084.39	2,021.74	3,576.78	3,472.05	104.73	34.153		
15,400.00	7,870.00	7,814.64	7,813.30	121.19	27.43	89.84	-2,084.46	2,021.70	3,625.92	3,520.58	105.34	34.420		
15,500.00	7,870.00	7,812.48	7,811.14	121.93	27.42	89.80	-2,084.52	2,021.67	3,677.12	3,571.19	105.94	34.710		
15,600.00	7,870.00	7,810.45	7,809.12	122.71	27.41	89.76	-2,084.57	2,021.65	3,730.30	3,623.79	106.51	35.023		
15,700.00	7,870.00	7,808.55	7,807.22	123.52	27.40	89.73	-2,084.62	2,021.62	3,785.38	3,678.32	107.06	35.357		
15,800.00	7,870.00	7,806.00	7,798.67	124.36	27.37	89.57	-2,084.82	2,021.52	3,842.27	3,734.74	107.53	35.731		
15,900.00	7,870.00	7,807.30	7,805.97	125.23	27.40	89.71	-2,084.66	2,021.60	3,900.88	3,792.77	108.11	36.082		
16,000.00	7,870.00	7,805.16	7,803.82	126.14	27.39	89.67	-2,084.71	2,021.58	3,961.16	3,852.57	108.59	36.478		
16,100.00	7,870.00	7,803.03	7,801.70	127.07	27.38	89.63	-2,084.76	2,021.56	4,023.02	3,913.97	109.05	36.892		
16,200.00	7,870.00	7,800.93	7,799.60	128.04	27.38	89.59	-2,084.80	2,021.53	4,086.39	3,976.91	109.48	37.324		
16,300.00	7,870.00	7,798.86	7,797.53	129.04	27.37	89.55	-2,084.85	2,021.51	4,151.20	4,041.30	109.90	37.774		
16,400.00	7,870.00	7,796.80	7,795.47	130.06	27.36	89.52	-2,084.89	2,021.49	4,217.38	4,107.09	110.29	38.239		
16,500.00	7,870.00	7,794.77	7,793.44	131.11	27.36	89.48	-2,084.94	2,021.46	4,284.88	4,174.21	110.66	38.719		
16,600.00	7,870.00	7,792.76	7,791.43	132.19	27.35	89.44	-2,084.98	2,021.44	4,353.62	4,242.60	111.02	39.215		
16,700.00	7,870.00	7,790.77	7,789.44	133.29	27.34	89.41	-2,085.02	2,021.42	4,423.56	4,312.20	111.36	39.724		
16,800.00	7,870.00	7,788.80	7,787.47	134.42	27.34	89.37	-2,085.06	2,021.40	4,494.63	4,382.95	111.68	40.247		
16,900.00	7,870.00	7,786.85	7,785.52	135.57	27.33	89.33	-2,085.10	2,021.38	4,566.78	4,454.80	111.98	40.782		
17,000.00	7,870.00	7,784.92	7,783.59	136.75	27.32	89.30	-2,085.15	2,021.36	4,639.97	4,527.70	112.27	41.329		
17,100.00	7,870.00	7,783.01	7,781.68	137.94	27.32	89.26	-2,085.19	2,021.34	4,714.14	4,601.60	112.54	41.888		
17,200.00	7,870.00	7,781.12	7,779.79	139.16	27.31	89.23	-2,085.22	2,021.32	4,789.25	4,676.45	112.80	42.458		
17,300.00	7,870.00	7,779.25	7,777.92	140.39	27.30	89.19	-2,085.26	2,021.30	4,865.26	4,752.21	113.05	43.038		
17,400.00	7,870.00	7,777.40	7,776.07	141.65	27.30	89.16	-2,085.30	2,021.28	4,942.12	4,828.84	113.28	43.628		
17,500.00	7,870.00	7,775.56	7,774.24	142.92	27.29	89.13	-2,085.34	2,021.26	5,019.79	4,906.29	113.50	44.228		
17,600.00	7,870.00	7,773.75	7,772.42	144.21	27.28	89.09	-2,085.38	2,021.24	5,098.24	4,984.53	113.71	44.836		
17,700.00	7,870.00	7,771.95	7,770.63	145.52	27.28	89.06	-2,085.41	2,021.22	5,177.43	5,063.53	113.91	45.453		
17,800.00	7,870.00	7,770.17	7,768.85	146.84	27.27	89.03	-2,085.45	2,021.20	5,257.34	5,143.24	114.10	46.078		
17,900.00	7,870.00	7,768.41	7,767.09	148.18	27.26	89.00	-2,085.48	2,021.19	5,337.91	5,223.64	114.27	46.711		
18,000.00	7,870.00	7,766.66	7,765.34	149.54	27.26	88.97	-2,085.52	2,021.17	5,419.14	5,304.69	114.44	47.352		
18,100.00	7,870.00	7,764.94	7,763.61	150.90	27.25	88.93	-2,085.55	2,021.15	5,500.98	5,386.38	114.61	47.999		
18,200.00	7,870.00	7,763.22	7,761.90	152.28	27.25	88.90	-2,085.59	2,021.13	5,583.42	5,468.66	114.76	48.653		
18,300.00	7,870.00	7,761.53	7,760.21	153.67	27.24	88.87	-2,085.62	2,021.12	5,666.41	5,551.51	114.91	49.313		
18,400.00	7,870.00	7,759.85	7,758.53	155.07	27.24	88.84	-2,085.65	2,021.10	5,749.95	5,634.91	115.05	49.980		
18,500.00	7,870.00	7,758.19	7,756.87	156.49	27.23	88.81	-2,085.68	2,021.08	5,834.01	5,718.83	115.18	50.652		
18,600.00	7,870.00	7,756.54	7,755.22	157.91	27.22	88.78	-2,085.72	2,021.07	5,918.56	5,803.26	115.30	51.330		
18,700.00	7,870.00	7,754.91	7,753.59	159.35	27.22	88.75	-2,085.75	2,021.05	6,003.59	5,888.16	115.42	52.013		
18,800.00	7,870.00	7,753.30	7,751.98	160.79	27.21	88.72	-2,085.78	2,021.04	6,089.07	5,973.53	115.54	52.701		
18,900.00	7,870.00	7,751.70	7,750.38	162.25	27.21	88.69	-2,085.81	2,021.02	6,174.98	6,059.34	115.65	53.394		
19,000.00	7,870.00	7,750.11	7,748.79	163.71	27.20	88.66	-2,085.84	2,021.01	6,261.32	6,145.57	115.75	54.092		
19,100.00	7,870.00	7,748.54	7,747.22	165.18	27.20	88.63	-2,085.87	2,020.99	6,348.05	6,232.20	115.85	54.794		
19,200.00	7,870.00	7,746.98	7,745.66	166.66	27.19	88.61	-2,085.90	2,020.98	6,435.17	6,319.22	115.95	55.500		
19,300.00	7,870.00	7,745.44	7,744.12	168.15	27.19	88.58	-2,085.93	2,020.96	6,522.66	6,406.62	116.04	56.210		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,400.00	7,870.00	7,743.91	7,742.59	169.65	27.18	88.55	-2,085.96	2,020.95	6,610.50	6,494.37	116.13	56.923	
19,500.00	7,870.00	7,742.40	7,741.08	171.15	27.17	88.52	-2,085.98	2,020.93	6,698.69	6,582.47	116.21	57.641	
19,600.00	7,870.00	7,740.90	7,739.58	172.66	27.17	88.49	-2,086.01	2,020.92	6,787.20	6,670.90	116.30	58.362	
19,700.00	7,870.00	7,739.41	7,738.09	174.18	27.16	88.47	-2,086.04	2,020.91	6,876.02	6,759.65	116.37	59.086	
19,800.00	7,870.00	7,737.94	7,736.62	175.70	27.16	88.44	-2,086.07	2,020.89	6,965.15	6,848.70	116.45	59.813	
19,889.26	7,870.00	7,736.63	7,735.32	177.06	27.15	88.42	-2,086.09	2,020.88	7,044.95	6,928.43	116.51	60.465	

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 0-0-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 95-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	69.61	765.09	2,058.52	2,196.46					
100.00	100.00	82.36	82.36	0.13	0.13	69.61	765.06	2,058.08	2,195.79	2,195.53	0.27	8,271.691		
200.00	200.00	230.92	230.88	0.49	0.64	69.56	765.70	2,054.80	2,193.98	2,192.84	1.14	1,932.411		
300.00	300.00	474.47	473.55	0.85	1.56	69.27	770.38	2,035.76	2,187.10	2,184.69	2.40	909.955		
400.00	399.98	622.46	619.93	1.21	2.18	0.75	777.85	2,015.43	2,174.18	2,170.85	3.33	652.668		
500.00	499.84	727.44	723.10	1.56	2.64	0.36	787.01	1,998.32	2,156.86	2,152.74	4.12	523.675		
600.00	599.45	811.57	805.41	1.93	3.04	-0.02	796.65	1,983.89	2,136.38	2,131.53	4.84	441.318		
700.00	698.70	889.85	881.70	2.32	3.42	-0.45	807.71	1,970.24	2,113.29	2,107.74	5.56	380.289		
800.00	797.47	964.49	954.16	2.72	3.79	-0.93	820.03	1,957.23	2,087.85	2,081.57	6.28	332.663		
900.00	895.62	1,057.22	1,043.78	3.16	4.27	-1.59	837.49	1,941.06	2,060.06	2,052.95	7.11	289.806		
1,000.00	993.06	1,158.43	1,141.44	3.63	4.81	-2.37	856.50	1,922.51	2,028.40	2,020.40	8.00	253.511		
1,100.00	1,089.64	1,246.65	1,226.88	4.14	5.29	-3.07	872.06	1,906.97	1,993.95	1,985.12	8.83	225.695		
1,200.00	1,185.27	1,340.33	1,317.18	4.70	5.81	-3.90	890.05	1,889.71	1,956.44	1,946.72	9.72	201.296		
1,300.00	1,279.82	1,428.90	1,402.07	5.31	6.32	-4.82	908.57	1,872.52	1,915.88	1,905.28	10.61	180.654		
1,400.00	1,373.17	1,512.47	1,481.92	5.97	6.81	-5.80	926.82	1,856.00	1,872.63	1,861.14	11.49	163.031		
1,500.00	1,465.21	1,592.29	1,558.15	6.69	7.29	-6.82	944.48	1,840.23	1,826.82	1,814.46	12.36	147.774		
1,600.00	1,555.84	1,668.64	1,631.21	7.47	7.74	-7.89	961.13	1,825.55	1,778.71	1,765.48	13.23	134.443		
1,700.00	1,644.94	1,753.83	1,712.84	8.31	8.24	-9.17	979.33	1,809.41	1,728.11	1,713.95	14.16	122.072		
1,800.00	1,732.39	1,833.24	1,789.00	9.23	8.71	-10.51	996.07	1,794.37	1,674.97	1,659.91	15.07	111.174		
1,900.00	1,818.11	1,912.98	1,865.48	10.21	9.19	-12.02	1,012.80	1,779.25	1,619.46	1,603.46	16.00	101.229		
2,000.00	1,901.97	1,986.34	1,935.89	11.26	9.62	-13.59	1,028.03	1,765.36	1,561.68	1,544.76	16.92	92.322		
2,100.00	1,983.88	2,060.54	2,007.40	12.38	10.05	-15.35	1,042.62	1,752.00	1,501.96	1,484.10	17.86	84.096		
2,200.00	2,063.74	2,144.31	2,088.08	13.57	10.53	-17.57	1,058.93	1,736.44	1,439.86	1,420.97	18.89	76.240		
2,300.00	2,141.45	2,215.76	2,156.71	14.84	10.95	-19.87	1,073.12	1,722.51	1,375.64	1,355.73	19.91	69.076		
2,327.78	2,162.65	2,235.26	2,175.40	15.21	11.07	-20.56	1,077.05	1,718.62	1,357.48	1,337.27	20.21	67.159		
2,400.00	2,217.51	2,281.92	2,220.14	16.17	11.35	-21.89	1,086.50	1,709.28	1,310.41	1,289.43	20.99	62.443		
2,500.00	2,293.49	2,347.65	2,283.14	17.51	11.74	-23.87	1,099.83	1,696.12	1,246.24	1,224.11	22.13	56.314		
2,600.00	2,369.47	2,414.23	2,347.05	18.86	12.14	-26.02	1,113.07	1,682.97	1,183.36	1,159.98	23.37	50.630		
2,700.00	2,445.45	2,477.63	2,407.99	20.22	12.52	-28.21	1,125.53	1,670.66	1,122.04	1,097.34	24.70	45.424		
2,800.00	2,521.42	2,539.25	2,467.24	21.59	12.88	-30.49	1,137.68	1,658.88	1,062.68	1,036.54	26.14	40.646		
2,900.00	2,597.40	2,599.09	2,524.72	22.97	13.24	-32.86	1,149.87	1,647.54	1,005.79	978.07	27.72	36.289		
3,000.00	2,673.38	2,661.94	2,585.04	24.34	13.61	-35.53	1,162.98	1,635.79	951.72	922.26	29.46	32.307		
3,100.00	2,749.36	2,725.18	2,645.78	25.73	13.98	-38.38	1,176.27	1,624.23	900.82	869.46	31.36	28.726		
3,200.00	2,825.33	2,789.11	2,707.31	27.11	14.36	-41.41	1,189.64	1,613.15	853.61	820.19	33.41	25.548		
3,300.00	2,901.31	2,860.12	2,775.73	28.50	14.77	-44.98	1,204.36	1,601.11	810.33	774.66	35.68	22.714		
3,400.00	2,977.29	2,932.02	2,845.00	29.90	15.18	-48.82	1,219.05	1,588.65	771.33	733.24	38.09	20.251		
3,500.00	3,053.27	3,003.15	2,913.63	31.29	15.59	-52.81	1,233.13	1,576.35	737.23	696.64	40.59	18.163		
3,600.00	3,129.24	3,072.38	2,980.56	32.69	15.98	-56.84	1,246.53	1,564.85	708.95	665.86	43.09	16.454		
3,700.00	3,205.22	3,138.52	3,044.50	34.08	16.35	-60.83	1,259.35	1,553.76	687.33	641.84	45.49	15.108		
3,800.00	3,281.20	3,202.02	3,105.67	35.48	16.72	-64.80	1,271.97	1,542.30	673.42	625.70	47.72	14.112		
3,900.00	3,357.18	3,263.96	3,165.17	36.88	17.08	-68.75	1,284.68	1,530.70	667.98	618.31	49.67	13.448		
3,913.62	3,367.53	3,273.85	3,174.65	37.08	17.14	-69.39	1,286.73	1,528.82	667.91	617.97	49.94	13.375 CC, ES		
4,000.00	3,433.15	3,338.08	3,236.38	38.29	17.52	-73.50	1,299.75	1,516.73	670.73	619.22	51.51	13.022		
4,100.00	3,509.13	3,407.01	3,302.77	39.69	17.93	-77.85	1,313.23	1,504.01	681.10	628.18	52.92	12.871 SF		
4,200.00	3,585.11	3,471.37	3,364.77	41.09	18.30	-81.84	1,325.87	1,492.26	699.27	645.34	53.93	12.965		
4,300.00	3,661.08	3,529.08	3,420.23	42.50	18.65	-85.33	1,337.61	1,481.38	725.28	670.73	54.55	13.296		
4,400.00	3,737.06	3,595.85	3,484.21	43.90	19.05	-89.22	1,351.57	1,468.43	758.31	703.18	55.13	13.755		
4,500.00	3,813.04	3,668.78	3,554.24	45.31	19.48	-93.27	1,366.50	1,454.56	796.64	740.95	55.69	14.304		
4,600.00	3,889.02	3,745.12	3,627.76	46.71	19.93	-97.24	1,381.73	1,440.73	839.19	782.96	56.23	14.924		
4,700.00	3,964.99	3,805.19	3,685.61	48.12	20.28	-100.17	1,393.76	1,429.91	885.90	829.49	56.41	15.704		
4,800.00	4,040.97	3,868.93	3,746.91	49.53	20.66	-103.10	1,406.75	1,418.22	936.48	879.83	56.65	16.532		
4,900.00	4,116.95	3,934.22	3,809.66	50.94	21.04	-105.91	1,420.20	1,406.18	990.21	933.29	56.91	17.399		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,192.93	4,002.26	3,875.04	52.35	21.45	-108.63	1,434.21	1,393.63	1,046.46	989.22	57.25	18.280		
5,100.00	4,268.90	4,079.00	3,948.89	53.76	21.90	-111.48	1,449.73	1,379.67	1,104.58	1,046.82	57.76	19.125		
5,200.00	4,344.88	4,146.74	4,014.23	55.16	22.29	-113.81	1,462.98	1,367.66	1,164.03	1,105.91	58.12	20.029		
5,300.00	4,420.86	4,206.43	4,071.73	56.57	22.64	-115.73	1,474.72	1,356.78	1,225.39	1,167.03	58.35	21.000		
5,400.00	4,496.84	4,268.87	4,131.82	57.98	23.00	-117.62	1,487.04	1,345.11	1,288.42	1,229.75	58.67	21.962		
5,500.00	4,572.81	4,337.03	4,197.40	59.39	23.40	-119.54	1,500.37	1,332.17	1,352.78	1,293.67	59.11	22.887		
5,600.00	4,648.79	4,410.00	4,267.73	60.81	23.83	-121.46	1,514.11	1,318.42	1,417.87	1,358.22	59.65	23.771		
5,700.00	4,724.77	4,480.24	4,335.41	62.22	24.24	-123.15	1,527.84	1,305.62	1,483.66	1,423.48	60.18	24.655		
5,800.00	4,800.74	4,536.17	4,389.23	63.63	24.57	-124.39	1,539.17	1,295.46	1,550.33	1,489.84	60.49	25.628		
5,900.00	4,876.72	4,594.01	4,444.83	65.04	24.91	-125.62	1,550.62	1,284.37	1,618.21	1,557.36	60.86	26.591		
6,000.00	4,952.70	4,704.76	4,551.67	66.45	25.54	-127.82	1,571.14	1,263.68	1,686.28	1,624.17	62.11	27.152		
6,100.00	5,028.68	4,868.94	4,712.21	67.86	26.37	-130.85	1,595.26	1,239.36	1,751.04	1,687.06	63.98	27.369		
6,200.00	5,104.65	4,979.12	4,820.82	69.27	26.86	-132.75	1,608.12	1,226.06	1,814.35	1,749.40	64.95	27.934		
6,300.00	5,180.63	5,103.80	4,944.16	70.69	27.37	-134.73	1,621.37	1,213.45	1,876.87	1,810.82	66.04	28.418		
6,400.00	5,256.61	5,296.36	5,135.92	72.10	28.03	-137.63	1,634.12	1,202.30	1,935.74	1,868.17	67.57	28.646		
6,500.00	5,332.59	5,431.73	5,271.21	73.51	28.40	-139.60	1,637.38	1,199.36	1,992.19	1,923.81	68.38	29.134		
6,600.00	5,408.56	5,533.89	5,373.37	74.92	28.63	-141.04	1,637.57	1,198.96	2,047.57	1,978.68	68.89	29.722		
6,700.00	5,484.54	5,618.66	5,458.14	76.34	28.82	-142.18	1,637.49	1,199.30	2,102.90	2,033.61	69.30	30.345		
6,800.00	5,560.52	5,689.55	5,529.03	77.75	28.98	-143.08	1,637.49	1,199.68	2,158.67	2,089.03	69.64	30.997		
6,900.00	5,636.50	5,761.93	5,601.40	79.16	29.14	-143.97	1,637.35	1,199.87	2,215.10	2,145.11	69.99	31.648		
7,000.00	5,712.47	5,834.49	5,673.96	80.57	29.30	-144.83	1,637.26	1,199.98	2,272.08	2,201.73	70.35	32.297		
7,100.00	5,788.45	5,905.14	5,744.61	81.99	29.46	-145.63	1,637.21	1,199.94	2,329.63	2,258.93	70.71	32.949		
7,200.00	5,864.43	5,974.72	5,814.19	83.40	29.63	-146.38	1,637.32	1,199.74	2,387.76	2,316.69	71.07	33.597		
7,300.00	5,940.40	6,057.55	5,897.02	84.81	29.84	-147.23	1,637.69	1,199.46	2,446.30	2,374.77	71.53	34.199		
7,400.00	6,016.38	6,134.46	5,973.93	86.23	30.03	-147.99	1,638.00	1,199.47	2,504.90	2,432.93	71.96	34.809		
7,500.00	6,092.36	6,209.88	6,049.35	87.64	30.22	-148.70	1,638.56	1,199.34	2,563.95	2,491.56	72.39	35.417		
7,600.00	6,168.34	6,303.48	6,142.94	89.05	30.46	-149.53	1,639.50	1,199.66	2,622.88	2,549.92	72.96	35.949		
7,700.00	6,244.31	6,380.74	6,220.19	90.47	30.66	-150.18	1,640.41	1,200.14	2,681.88	2,608.45	73.43	36.525		
7,800.00	6,320.29	6,458.00	6,297.45	91.88	30.86	-150.81	1,641.22	1,200.63	2,741.09	2,667.20	73.89	37.094		
7,900.00	6,396.27	6,535.26	6,374.67	93.30	31.16	-151.70	1,643.24	1,202.35	2,799.87	2,725.21	74.66	37.502		
8,000.00	6,472.25	6,610.52	6,459.92	94.71	31.30	-152.10	1,644.20	1,203.30	2,858.68	2,783.68	75.00	38.116		
8,100.00	6,548.22	6,686.92	6,535.32	96.12	31.46	-152.57	1,644.74	1,203.97	2,918.21	2,842.81	75.40	38.701		
8,200.00	6,624.20	6,762.27	6,619.64	97.54	31.68	-153.14	1,646.25	1,204.78	2,977.98	2,902.02	75.96	39.205		
8,300.00	6,700.18	6,838.17	6,692.23	98.95	31.94	-153.83	1,646.77	1,206.41	3,037.43	2,960.82	76.61	39.647		
8,400.00	6,776.16	6,914.00	6,769.35	100.37	32.08	-154.22	1,646.73	1,207.71	3,096.68	3,019.72	76.96	40.236		
8,500.00	6,852.13	6,989.51	6,841.85	101.78	32.19	-154.49	1,646.76	1,208.29	3,156.84	3,079.63	77.21	40.885		
8,600.00	6,928.11	7,065.00	6,917.34	103.20	32.33	-154.82	1,647.01	1,207.75	3,218.56	3,141.03	77.53	41.511		
8,700.00	7,004.09	7,141.13	7,002.45	104.61	32.40	-154.99	1,647.22	1,207.15	3,281.03	3,203.35	77.68	42.240		
8,800.00	7,080.06	7,217.03	7,078.35	106.02	32.73	-155.66	1,648.28	1,205.82	3,343.27	3,264.75	78.51	42.584		
8,900.00	7,156.04	7,293.64	7,154.95	107.44	32.97	-156.15	1,648.78	1,205.38	3,405.21	3,326.10	79.11	43.042		
9,000.00	7,232.02	7,369.32	7,230.63	108.85	33.22	-156.64	1,649.32	1,205.21	3,467.04	3,387.29	79.76	43.471		
9,104.68	7,311.55	7,448.22	7,309.53	110.33	33.46	-157.12	1,649.49	1,205.56	3,531.44	3,451.06	80.38	43.933		
9,150.00	7,386.29	7,523.93	7,384.24	110.97	33.55	-166.05	1,649.51	1,205.70	3,595.47	3,515.86	80.61	44.158		
9,200.00	7,461.27	7,600.23	7,459.54	111.65	33.64	-176.19	1,649.53	1,205.83	3,659.53	3,579.66	80.87	44.398		
9,250.00	7,536.25	7,676.56	7,534.85	112.31	33.75	-173.61	1,649.48	1,205.97	3,723.48	3,643.33	81.16	44.624		
9,300.00	7,611.23	7,752.88	7,609.99	112.93	33.85	-163.61	1,649.32	1,206.12	3,787.09	3,707.65	81.44	44.842		
9,350.00	7,686.21	7,828.20	7,684.25	113.51	33.95	-154.04	1,649.10	1,206.27	3,850.13	3,770.39	81.74	45.049		
9,400.00	7,761.19	7,903.52	7,759.57	114.04	34.05	-145.11	1,648.94	1,206.43	3,913.10	3,833.37	82.03	45.244		
9,450.00	7,836.17	7,978.84	7,834.88	114.53	34.15	-136.93	1,648.80	1,206.60	3,976.07	3,896.34	82.34	45.420		
9,500.00	7,911.15	8,054.16	7,910.00	114.95	34.25	-129.59	1,648.56	1,206.81	4,039.04	3,959.31	82.65	45.575		
9,550.00	7,986.13	8,129.48	7,985.91	115.32	34.35	-123.06	1,648.23	1,207.06	4,102.01	4,022.28	82.97	45.713		
9,600.00	8,061.11	8,204.80	8,060.23	115.63	34.42	-117.23	1,647.95	1,207.24	4,164.98	4,085.25	83.23	45.867		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,650.00	7,712.08	7,848.95	7,688.25	115.88	34.49	112.14	1,647.70	1,207.38	3,840.41	3,756.92	83.49	45.999		
9,700.00	7,740.76	7,873.86	7,713.16	116.08	34.55	107.71	1,647.48	1,207.48	3,861.95	3,778.19	83.76	46.107		
9,750.00	7,767.01	7,897.65	7,736.95	116.23	34.61	103.92	1,647.28	1,207.55	3,881.84	3,797.79	84.05	46.187		
9,800.00	7,790.63	7,920.91	7,760.21	116.33	34.67	100.70	1,647.08	1,207.61	3,899.99	3,815.63	84.36	46.231		
9,850.00	7,811.44	7,941.49	7,780.79	116.38	34.73	97.98	1,646.89	1,207.66	3,916.34	3,831.66	84.68	46.248		
9,900.00	7,829.28	7,959.23	7,798.53	116.38	34.77	95.72	1,646.72	1,207.70	3,930.82	3,845.80	85.02	46.235		
9,950.00	7,844.01	7,974.00	7,813.29	116.35	34.81	93.87	1,646.57	1,207.73	3,943.40	3,858.02	85.37	46.191		
10,000.00	7,855.52	7,985.81	7,825.10	116.28	34.84	92.41	1,646.45	1,207.75	3,954.01	3,868.27	85.74	46.116		
10,050.00	7,863.72	7,994.97	7,834.26	116.18	34.86	91.32	1,646.36	1,207.77	3,962.64	3,876.51	86.13	46.007		
10,100.00	7,868.56	8,000.59	7,839.88	116.06	34.88	90.57	1,646.30	1,207.79	3,969.25	3,882.71	86.54	45.867		
10,145.94	7,870.00	8,002.60	7,841.89	115.92	34.88	90.17	1,646.28	1,207.79	3,973.51	3,886.59	86.92	45.713		
10,200.00	7,870.00	8,003.18	7,842.47	115.76	34.89	90.18	1,646.28	1,207.79	3,977.87	3,890.48	87.39	45.519		
10,300.00	7,870.00	8,004.25	7,843.55	115.46	34.89	90.20	1,646.26	1,207.79	3,987.86	3,899.59	88.27	45.180		
10,400.00	7,870.00	8,005.33	7,844.62	115.18	34.89	90.21	1,646.25	1,207.80	4,000.32	3,911.16	89.16	44.866		
10,500.00	7,870.00	8,006.40	7,845.69	114.91	34.89	90.23	1,646.24	1,207.80	4,015.23	3,925.17	90.07	44.581		
10,600.00	7,870.00	8,007.47	7,846.76	114.65	34.90	90.24	1,646.23	1,207.80	4,032.57	3,941.59	90.98	44.324		
10,700.00	7,870.00	8,008.54	7,847.83	114.41	34.90	90.26	1,646.22	1,207.80	4,052.31	3,960.41	91.90	44.097		
10,800.00	7,870.00	8,009.61	7,848.90	114.17	34.90	90.27	1,646.21	1,207.81	4,074.40	3,981.59	92.81	43.900		
10,900.00	7,870.00	8,010.67	7,849.96	113.95	34.91	90.29	1,646.20	1,207.81	4,098.81	4,005.09	93.72	43.733		
11,000.00	7,870.00	8,011.74	7,851.03	113.75	34.91	90.30	1,646.19	1,207.81	4,125.50	4,030.88	94.63	43.598		
11,100.00	7,870.00	8,012.81	7,852.10	113.55	34.91	90.32	1,646.18	1,207.81	4,154.43	4,058.91	95.52	43.492		
11,200.00	7,870.00	8,013.87	7,853.16	113.37	34.91	90.33	1,646.17	1,207.82	4,185.55	4,089.15	96.40	43.417		
11,300.00	7,870.00	8,014.94	7,854.23	113.20	34.92	90.35	1,646.16	1,207.82	4,218.81	4,121.54	97.27	43.372		
11,400.00	7,870.00	8,016.00	7,855.29	113.04	34.92	90.37	1,646.14	1,207.82	4,254.16	4,156.04	98.12	43.356		
11,500.00	7,870.00	8,017.07	7,856.36	112.89	34.92	90.38	1,646.13	1,207.82	4,291.55	4,192.59	98.96	43.369		
11,600.00	7,870.00	8,018.13	7,857.42	112.76	34.92	90.40	1,646.12	1,207.83	4,330.92	4,231.16	99.77	43.410		
11,700.00	7,870.00	8,019.19	7,858.48	112.64	34.93	90.41	1,646.11	1,207.83	4,372.23	4,271.67	100.56	43.478		
11,800.00	7,870.00	8,020.25	7,859.54	112.53	34.93	90.43	1,646.10	1,207.83	4,415.42	4,314.09	101.33	43.573		
11,900.00	7,870.00	8,021.31	7,860.61	112.44	34.93	90.44	1,646.09	1,207.83	4,460.43	4,358.35	102.08	43.694		
12,000.00	7,870.00	8,022.38	7,861.67	112.36	34.94	90.46	1,646.08	1,207.84	4,507.21	4,404.40	102.81	43.840		
12,100.00	7,870.00	8,023.43	7,862.73	112.29	34.94	90.47	1,646.07	1,207.84	4,555.71	4,452.19	103.51	44.010		
12,200.00	7,870.00	8,024.49	7,863.78	112.24	34.94	90.49	1,646.06	1,207.84	4,605.86	4,501.67	104.20	44.204		
12,300.00	7,870.00	8,025.55	7,864.84	112.20	34.94	90.50	1,646.05	1,207.84	4,657.62	4,552.77	104.85	44.420		
12,400.00	7,870.00	8,026.61	7,865.90	112.17	34.95	90.52	1,646.04	1,207.85	4,710.94	4,605.45	105.49	44.658		
12,500.00	7,870.00	8,027.67	7,866.96	112.16	34.95	90.53	1,646.03	1,207.85	4,765.76	4,659.66	106.10	44.917		
12,600.00	7,870.00	8,028.72	7,868.01	112.17	34.95	90.55	1,646.02	1,207.85	4,822.03	4,715.33	106.69	45.195		
12,700.00	7,870.00	8,029.78	7,869.07	112.19	34.95	90.56	1,646.00	1,207.85	4,879.70	4,772.44	107.26	45.493		
12,800.00	7,870.00	8,030.83	7,870.12	112.23	34.96	90.58	1,645.99	1,207.86	4,938.72	4,830.91	107.81	45.810		
12,900.00	7,870.00	8,031.89	7,871.18	112.28	34.96	90.60	1,645.98	1,207.86	4,999.04	4,890.71	108.33	46.144		
13,000.00	7,870.00	8,032.94	7,872.23	112.36	34.96	90.61	1,645.97	1,207.86	5,060.62	4,951.78	108.84	46.496		
13,100.00	7,870.00	8,033.99	7,873.28	112.45	34.97	90.63	1,645.96	1,207.87	5,123.42	5,014.09	109.33	46.864		
13,200.00	7,870.00	8,035.04	7,874.33	112.56	34.97	90.64	1,645.95	1,207.87	5,187.38	5,077.59	109.79	47.248		
13,300.00	7,870.00	8,036.10	7,875.39	112.68	34.97	90.66	1,645.94	1,207.87	5,252.46	5,142.22	110.24	47.646		
13,400.00	7,870.00	8,037.15	7,876.44	112.83	34.97	90.67	1,645.93	1,207.87	5,318.63	5,207.96	110.67	48.059		
13,500.00	7,870.00	8,038.20	7,877.49	113.00	34.98	90.69	1,645.92	1,207.88	5,385.84	5,274.76	111.08	48.486		
13,600.00	7,870.00	8,039.25	7,878.53	113.19	34.98	90.70	1,645.91	1,207.88	5,454.06	5,342.59	111.47	48.927		
13,700.00	7,870.00	8,040.29	7,879.58	113.40	34.98	90.72	1,645.90	1,207.88	5,523.25	5,411.39	111.85	49.380		
13,800.00	7,870.00	8,041.34	7,880.63	113.63	34.98	90.73	1,645.89	1,207.88	5,593.36	5,481.15	112.22	49.845		
13,900.00	7,870.00	8,042.39	7,881.68	113.89	34.99	90.75	1,645.88	1,207.89	5,664.38	5,551.82	112.56	50.322		
14,000.00	7,870.00	8,043.44	7,882.72	114.18	34.99	90.76	1,645.87	1,207.89	5,736.26	5,623.36	112.90	50.810		
14,100.00	7,870.00	8,044.48	7,883.77	114.48	34.99	90.78	1,645.86	1,207.89	5,808.97	5,695.75	113.22	51.309		
14,200.00	7,870.00	8,045.53	7,884.82	114.82	35.00	90.79	1,645.85	1,207.90	5,882.48	5,768.96	113.52	51.818		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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		
14,300.00	7,870.00	8,046.57	7,885.86	115.18	35.00	90.81	1,645.83	1,207.90	5,956.76	5,842.95	113.81	52.337		
14,400.00	7,870.00	8,047.61	7,886.90	115.57	35.00	90.82	1,645.82	1,207.90	6,031.79	5,917.69	114.10	52.866		
14,500.00	7,870.00	8,048.66	7,887.95	115.99	35.00	90.84	1,645.81	1,207.90	6,107.53	5,993.17	114.37	53.404		
14,600.00	7,870.00	8,049.70	7,888.99	116.44	35.01	90.85	1,645.80	1,207.91	6,183.96	6,069.34	114.62	53.950		
14,700.00	7,870.00	8,050.74	7,890.03	116.92	35.01	90.87	1,645.79	1,207.91	6,261.06	6,146.19	114.87	54.505		
14,800.00	7,870.00	8,051.78	7,891.07	117.44	35.01	90.88	1,645.78	1,207.91	6,338.79	6,223.68	115.11	55.068		
14,900.00	7,870.00	8,052.82	7,892.11	117.98	35.01	90.90	1,645.77	1,207.92	6,417.14	6,301.81	115.34	55.638		
15,000.00	7,870.00	8,053.86	7,893.15	118.56	35.02	90.91	1,645.76	1,207.92	6,496.09	6,380.53	115.56	56.216		
15,100.00	7,870.00	8,054.90	7,894.19	119.17	35.02	90.93	1,645.75	1,207.92	6,575.61	6,459.84	115.77	56.801		
15,200.00	7,870.00	8,055.94	7,895.23	119.81	35.02	90.94	1,645.74	1,207.93	6,655.68	6,539.71	115.97	57.393		
15,300.00	7,870.00	8,056.98	7,896.27	120.48	35.03	90.96	1,645.73	1,207.93	6,736.28	6,620.12	116.16	57.992		
15,400.00	7,870.00	8,058.01	7,897.30	121.19	35.03	90.97	1,645.72	1,207.93	6,817.40	6,701.06	116.35	58.596		
15,500.00	7,870.00	8,059.05	7,898.34	121.93	35.03	90.99	1,645.71	1,207.93	6,899.01	6,782.49	116.52	59.207		
15,600.00	7,870.00	8,060.09	7,899.37	122.71	35.03	91.00	1,645.70	1,207.94	6,981.10	6,864.41	116.69	59.824		
15,700.00	7,870.00	8,061.12	7,900.41	123.52	35.04	91.02	1,645.69	1,207.94	7,063.66	6,946.80	116.86	60.446		
15,800.00	7,870.00	8,062.15	7,901.44	124.36	35.04	91.03	1,645.68	1,207.94	7,146.65	7,029.64	117.02	61.074		
15,900.00	7,870.00	8,063.19	7,902.48	125.23	35.04	91.05	1,645.67	1,207.95	7,230.08	7,112.91	117.17	61.706		
16,000.00	7,870.00	8,064.22	7,903.51	126.14	35.04	91.06	1,645.66	1,207.95	7,313.93	7,196.61	117.32	62.344		
16,100.00	7,870.00	8,065.25	7,904.54	127.07	35.05	91.08	1,645.65	1,207.95	7,398.17	7,280.71	117.46	62.986		
16,200.00	7,870.00	8,066.29	7,905.57	128.04	35.05	91.09	1,645.64	1,207.96	7,482.80	7,365.21	117.59	63.633		
16,300.00	7,870.00	8,067.32	7,906.60	129.04	35.05	91.11	1,645.63	1,207.96	7,567.81	7,450.09	117.72	64.285		
16,400.00	7,870.00	8,068.35	7,907.63	130.06	35.05	91.12	1,645.62	1,207.96	7,653.18	7,535.33	117.85	64.941		
16,500.00	7,870.00	8,069.38	7,908.66	131.11	35.06	91.14	1,645.61	1,207.96	7,738.90	7,620.93	117.97	65.600		
16,600.00	7,870.00	8,070.40	7,909.69	132.19	35.06	91.15	1,645.60	1,207.97	7,824.96	7,706.87	118.09	66.264		
16,700.00	7,870.00	8,071.43	7,910.72	133.29	35.06	91.17	1,645.58	1,207.97	7,911.35	7,793.15	118.20	66.932		
16,800.00	7,870.00	8,072.46	7,911.75	134.42	35.07	91.18	1,645.57	1,207.97	7,998.05	7,879.74	118.31	67.603		
16,900.00	7,870.00	8,073.49	7,912.77	135.57	35.07	91.20	1,645.56	1,207.98	8,085.06	7,966.65	118.42	68.277		
17,000.00	7,870.00	8,074.51	7,913.80	136.75	35.07	91.21	1,645.55	1,207.98	8,172.37	8,053.85	118.52	68.955		
17,100.00	7,870.00	8,075.54	7,914.83	137.94	35.07	91.23	1,645.54	1,207.98	8,259.97	8,141.35	118.62	69.637		
17,200.00	7,870.00	8,076.56	7,915.85	139.16	35.08	91.24	1,645.53	1,207.99	8,347.84	8,229.13	118.71	70.321		
17,300.00	7,870.00	8,077.59	7,916.88	140.39	35.08	91.26	1,645.52	1,207.99	8,435.98	8,317.18	118.80	71.008		
17,400.00	7,870.00	8,078.61	7,917.90	141.65	35.08	91.27	1,645.51	1,207.99	8,524.39	8,405.50	118.89	71.698		
17,500.00	7,870.00	8,080.20	7,919.49	142.92	35.09	91.29	1,645.50	1,208.00	8,613.05	8,494.07	118.98	72.390		
17,600.00	7,870.00	8,082.17	7,921.45	144.21	35.09	91.32	1,645.48	1,208.00	8,701.95	8,582.89	119.07	73.084		
17,700.00	7,870.00	8,084.15	7,923.44	145.52	35.10	91.35	1,645.46	1,208.01	8,791.10	8,671.95	119.15	73.781		
17,800.00	7,870.00	8,086.17	7,925.46	146.84	35.10	91.38	1,645.44	1,208.02	8,880.47	8,761.24	119.23	74.480		
17,900.00	7,870.00	8,088.21	7,927.50	148.18	35.11	91.41	1,645.42	1,208.03	8,970.07	8,850.76	119.31	75.181		
18,000.00	7,870.00	8,090.28	7,929.57	149.54	35.11	91.44	1,645.39	1,208.03	9,059.89	8,940.49	119.39	75.884		
18,100.00	7,870.00	8,092.38	7,931.66	150.90	35.12	91.47	1,645.37	1,208.04	9,149.91	9,030.45	119.47	76.590		
18,200.00	7,870.00	8,094.50	7,933.79	152.28	35.12	91.50	1,645.35	1,208.05	9,240.14	9,120.60	119.54	77.298		
18,300.00	7,870.00	8,096.66	7,935.95	153.67	35.13	91.53	1,645.33	1,208.06	9,330.57	9,210.96	119.61	78.007		
18,400.00	7,870.00	8,098.85	7,938.13	155.07	35.13	91.56	1,645.30	1,208.07	9,421.20	9,301.52	119.68	78.719		
18,500.00	7,870.00	8,101.06	7,940.35	156.49	35.14	91.60	1,645.28	1,208.08	9,512.01	9,392.26	119.75	79.432		
18,600.00	7,870.00	8,103.31	7,942.60	157.91	35.14	91.63	1,645.26	1,208.09	9,603.00	9,483.19	119.82	80.147		
18,700.00	7,870.00	8,105.59	7,944.88	159.35	35.15	91.66	1,645.23	1,208.10	9,694.17	9,574.29	119.88	80.864		
18,800.00	7,870.00	8,107.90	7,947.19	160.79	35.16	91.69	1,645.21	1,208.11	9,785.52	9,665.57	119.95	81.582		
18,900.00	7,870.00	8,110.25	7,949.54	162.25	35.16	91.73	1,645.18	1,208.12	9,877.03	9,757.02	120.01	82.302		
19,000.00	7,870.00	8,112.63	7,951.92	163.71	35.17	91.76	1,645.15	1,208.13	9,968.70	9,848.63	120.07	83.023		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	134.58	-2,061.78	2,092.35	2,937.77					
100.00	100.00	75.46	75.46	0.13	0.12	134.58	-2,061.69	2,092.17	2,937.34	2,937.08	0.26	N/A		
200.00	200.00	196.60	196.59	0.49	0.47	134.58	-2,060.86	2,091.44	2,936.43	2,935.47	0.96	3,057.570		
300.00	300.00	870.94	863.58	0.85	3.20	133.52	-1,974.93	2,079.42	2,930.64	2,926.66	3.97	737.332		
400.00	399.98	1,203.12	1,179.52	1.21	5.10	64.71	-1,874.53	2,061.60	2,903.70	2,897.84	5.86	495.875		
500.00	499.84	1,357.77	1,323.55	1.56	6.11	64.74	-1,819.05	2,052.12	2,872.11	2,865.15	6.97	412.180		
600.00	599.45	1,502.49	1,457.35	1.93	7.11	64.91	-1,764.69	2,042.88	2,838.14	2,830.07	8.07	351.824		
700.00	698.70	1,624.04	1,568.70	2.32	7.99	65.27	-1,716.71	2,034.31	2,800.85	2,791.77	9.08	308.457		
800.00	797.47	1,718.04	1,654.53	2.72	8.69	65.80	-1,678.89	2,027.98	2,761.98	2,752.01	9.97	276.930		
900.00	895.62	1,805.32	1,734.22	3.16	9.33	66.45	-1,643.85	2,021.73	2,721.61	2,710.76	10.85	250.746		
1,000.00	993.06	1,873.00	1,796.24	3.63	9.83	67.21	-1,617.15	2,017.20	2,680.72	2,669.07	11.66	229.980		
1,100.00	1,089.64	1,975.14	1,889.94	4.14	10.59	68.06	-1,577.04	2,010.46	2,638.86	2,626.19	12.67	208.307		
1,200.00	1,185.27	2,036.31	1,946.22	4.70	11.03	69.00	-1,553.46	2,006.23	2,596.03	2,582.54	13.50	192.347		
1,300.00	1,279.82	2,127.44	2,030.45	5.31	11.69	70.10	-1,519.27	1,999.76	2,552.70	2,538.19	14.51	175.966		
1,400.00	1,373.17	2,240.51	2,134.59	5.97	12.51	71.40	-1,476.02	1,991.52	2,507.71	2,492.05	15.66	160.131		
1,500.00	1,465.21	2,347.85	2,233.04	6.69	13.31	72.84	-1,434.03	1,983.30	2,460.98	2,444.16	16.83	146.254		
1,600.00	1,555.84	2,419.50	2,298.80	7.47	13.85	74.26	-1,406.17	1,977.58	2,413.38	2,395.51	17.87	135.040		
1,700.00	1,644.94	2,484.33	2,358.50	8.31	14.32	75.74	-1,381.44	1,972.47	2,365.68	2,346.74	18.93	124.941		
1,800.00	1,732.39	2,567.54	2,435.48	9.23	14.93	77.48	-1,350.50	1,966.05	2,318.16	2,298.04	20.13	115.185		
1,900.00	1,818.11	2,667.71	2,527.27	10.21	15.67	79.46	-1,310.96	1,959.31	2,269.34	2,247.90	21.45	105.819		
2,000.00	1,901.97	2,739.84	2,593.33	11.26	16.21	81.30	-1,282.34	1,954.92	2,220.62	2,197.90	22.72	97.745		
2,100.00	1,983.88	2,828.01	2,674.29	12.38	16.87	83.47	-1,247.97	1,948.81	2,171.92	2,147.83	24.10	90.139		
2,200.00	2,063.74	2,928.44	2,766.63	13.57	17.62	86.03	-1,209.48	1,939.97	2,122.95	2,097.41	25.54	83.115		
2,300.00	2,141.45	3,025.42	2,855.27	14.84	18.36	88.69	-1,171.09	1,931.28	2,073.73	2,046.71	27.03	76.729		
2,327.78	2,162.65	3,047.73	2,875.58	15.21	18.53	89.38	-1,162.08	1,929.35	2,060.11	2,032.67	27.44	75.080		
2,400.00	2,217.51	3,110.14	2,932.35	16.17	19.01	90.46	-1,136.71	1,923.97	2,025.00	1,996.48	28.53	70.983		
2,500.00	2,293.49	3,211.41	3,023.92	17.51	19.81	92.26	-1,094.48	1,914.62	1,976.27	1,946.21	30.06	65.736		
2,600.00	2,369.47	3,264.13	3,071.62	18.86	20.23	93.24	-1,072.60	1,909.72	1,928.91	1,897.36	31.55	61.137		
2,700.00	2,445.45	3,324.88	3,126.84	20.22	20.71	94.40	-1,047.85	1,904.34	1,883.52	1,850.45	33.07	56.962		
2,800.00	2,521.42	3,390.89	3,186.91	21.59	21.22	95.68	-1,021.00	1,898.91	1,839.81	1,805.21	34.60	53.174		
2,900.00	2,597.40	3,450.96	3,241.67	22.97	21.68	96.87	-996.75	1,894.33	1,798.03	1,761.88	36.15	49.741		
3,000.00	2,673.38	3,519.33	3,304.18	24.34	22.20	98.27	-969.53	1,889.32	1,758.28	1,720.58	37.70	46.638		
3,100.00	2,749.36	3,610.78	3,387.86	25.73	22.90	100.22	-933.36	1,881.94	1,720.18	1,680.95	39.23	43.850		
3,200.00	2,825.33	3,699.94	3,468.70	27.11	23.60	102.15	-896.37	1,875.17	1,682.49	1,641.75	40.75	41.293		
3,300.00	2,901.31	3,759.32	3,522.62	28.50	24.06	103.46	-871.87	1,870.98	1,647.06	1,604.75	42.32	38.924		
3,400.00	2,977.29	3,823.04	3,580.71	29.90	24.55	104.91	-846.07	1,866.49	1,614.20	1,570.33	43.87	36.792		
3,500.00	3,053.27	3,884.54	3,636.99	31.29	25.02	106.34	-821.69	1,861.95	1,583.99	1,538.56	45.43	34.865		
3,600.00	3,129.24	3,944.21	3,691.82	32.69	25.47	107.77	-798.59	1,857.49	1,556.75	1,509.75	46.99	33.128		
3,700.00	3,205.22	4,032.94	3,773.38	34.08	26.13	109.92	-764.19	1,851.31	1,531.97	1,483.52	48.44	31.623		
3,800.00	3,281.20	4,108.44	3,842.58	35.48	26.70	111.77	-734.39	1,846.47	1,509.23	1,459.30	49.93	30.230		
3,900.00	3,357.18	4,182.96	3,910.92	36.88	27.26	113.64	-705.11	1,841.40	1,489.12	1,437.73	51.39	28.977		
4,000.00	3,433.15	4,250.77	3,973.12	38.29	27.77	115.37	-678.57	1,836.48	1,471.79	1,418.93	52.86	27.843		
4,100.00	3,509.13	4,306.37	4,024.36	39.69	28.18	116.81	-657.34	1,832.50	1,458.06	1,403.70	54.36	26.821		
4,200.00	3,585.11	4,375.15	4,088.02	41.09	28.68	118.59	-631.74	1,827.80	1,448.01	1,392.23	55.78	25.961		
4,300.00	3,661.08	4,450.00	4,157.33	42.50	29.22	120.55	-603.90	1,822.85	1,440.94	1,383.81	57.13	25.223		
4,400.00	3,737.06	4,523.47	4,225.35	43.90	29.75	122.48	-576.66	1,817.50	1,436.95	1,378.50	58.45	24.586		
4,489.37	3,804.97	4,595.91	4,292.37	45.16	30.28	124.40	-549.69	1,812.20	1,435.86	1,376.30	59.56	24.110 CC		
4,500.00	3,813.04	4,604.56	4,300.37	45.31	30.34	124.63	-546.46	1,811.59	1,435.88	1,376.19	59.68	24.058 ES		
4,600.00	3,889.02	4,687.44	4,376.91	46.71	30.95	126.81	-515.21	1,805.70	1,437.48	1,376.61	60.87	23.617		
4,700.00	3,964.99	4,765.64	4,449.04	48.12	31.53	128.87	-485.47	1,800.34	1,441.81	1,379.80	62.01	23.249		
4,800.00	4,040.97	4,829.47	4,508.00	49.53	31.99	130.52	-461.32	1,796.55	1,449.20	1,386.03	63.17	22.939		
4,900.00	4,116.95	4,882.57	4,557.28	50.94	32.37	131.89	-441.88	1,793.00	1,460.53	1,396.22	64.31	22.712		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,192.93	4,929.34	4,600.94	52.35	32.69	133.09	-425.45	1,789.62	1,475.98	1,410.62	65.36	22.581		
5,100.00	4,268.90	4,987.00	4,655.24	53.76	33.08	134.54	-406.50	1,785.46	1,495.75	1,429.45	66.30	22.559 SF		
5,200.00	4,344.88	5,031.21	4,697.14	55.16	33.36	135.63	-392.76	1,782.42	1,519.25	1,452.08	67.17	22.617		
5,300.00	4,420.86	5,091.14	4,754.21	56.57	33.73	137.07	-374.82	1,778.72	1,546.01	1,478.07	67.94	22.754		
5,400.00	4,496.84	5,147.53	4,808.18	57.98	34.06	138.37	-358.79	1,775.56	1,575.87	1,507.23	68.64	22.958		
5,500.00	4,572.81	5,205.29	4,863.73	59.39	34.39	139.66	-343.25	1,772.57	1,608.71	1,539.43	69.27	23.223		
5,600.00	4,648.79	5,264.32	4,920.74	60.81	34.72	140.94	-328.22	1,769.74	1,644.24	1,574.39	69.85	23.540		
5,700.00	4,724.77	5,319.97	4,974.74	62.22	35.01	142.09	-314.98	1,767.41	1,682.34	1,611.98	70.36	23.911		
5,800.00	4,800.74	5,374.81	5,028.25	63.63	35.28	143.16	-303.07	1,765.64	1,722.92	1,652.09	70.83	24.325		
5,900.00	4,876.72	5,426.08	5,078.51	65.04	35.51	144.11	-293.07	1,764.37	1,765.91	1,694.68	71.24	24.789		
6,000.00	4,952.70	5,476.22	5,127.89	66.45	35.73	144.99	-284.41	1,763.43	1,811.21	1,739.61	71.61	25.293		
6,100.00	5,028.68	5,523.83	5,174.95	67.86	35.91	145.78	-277.21	1,762.62	1,858.76	1,786.84	71.93	25.842		
6,200.00	5,104.65	5,575.40	5,226.06	69.27	36.10	146.59	-270.50	1,761.80	1,908.41	1,836.16	72.24	26.417		
6,300.00	5,180.63	5,633.56	5,283.84	70.69	36.30	147.46	-263.83	1,760.98	1,959.67	1,887.10	72.57	27.003		
6,400.00	5,256.61	5,687.45	5,337.45	72.10	36.48	148.22	-258.44	1,760.28	2,012.43	1,939.57	72.86	27.620		
6,500.00	5,332.59	5,742.00	5,391.80	73.51	36.65	148.95	-253.82	1,759.49	2,066.73	1,993.58	73.15	28.254		
6,600.00	5,408.56	5,785.23	5,434.93	74.92	36.76	149.50	-250.93	1,758.83	2,122.57	2,049.24	73.33	28.945		
6,700.00	5,484.54	5,836.00	5,485.64	76.34	36.89	150.11	-248.62	1,758.09	2,180.01	2,106.44	73.57	29.632		
6,800.00	5,560.52	5,886.72	5,536.33	77.75	37.00	150.68	-247.12	1,757.34	2,238.72	2,164.92	73.80	30.337		
6,900.00	5,636.50	5,947.62	5,597.21	79.16	37.14	151.33	-245.88	1,756.37	2,298.37	2,224.26	74.11	31.015		
7,000.00	5,712.47	6,017.50	5,667.08	80.57	37.28	152.03	-245.15	1,755.56	2,358.62	2,284.13	74.49	31.662		
7,100.00	5,788.45	6,091.70	5,741.28	81.99	37.42	152.72	-244.77	1,754.93	2,419.27	2,344.34	74.93	32.289		
7,200.00	5,864.43	6,176.41	5,825.98	83.40	37.59	153.48	-244.16	1,754.14	2,480.09	2,404.64	75.45	32.871		
7,300.00	5,940.40	6,263.08	5,912.64	84.81	37.77	154.22	-243.20	1,753.63	2,540.75	2,464.76	76.00	33.432		
7,400.00	6,016.38	6,342.64	5,992.20	86.23	37.94	154.88	-242.08	1,753.25	2,601.42	2,524.92	76.49	34.009		
7,500.00	6,092.36	6,419.20	6,068.75	87.64	38.10	155.47	-241.10	1,752.98	2,662.28	2,585.31	76.97	34.590		
7,600.00	6,168.34	6,505.70	6,155.24	89.05	38.29	156.12	-239.87	1,752.84	2,723.15	2,645.62	77.53	35.124		
7,700.00	6,244.31	6,589.54	6,219.07	90.47	38.43	156.58	-238.95	1,752.65	2,784.25	2,706.34	77.91	35.738		
7,800.00	6,320.29	6,646.62	6,296.14	91.88	38.59	157.11	-237.99	1,752.32	2,845.70	2,767.30	78.40	36.297		
7,900.00	6,396.27	6,726.64	6,376.16	93.30	38.77	157.63	-237.12	1,752.28	2,907.16	2,828.23	78.93	36.834		
8,000.00	6,472.25	6,803.50	6,453.02	94.71	38.93	158.12	-236.21	1,752.22	2,968.72	2,889.29	79.43	37.376		
8,100.00	6,548.22	6,880.66	6,530.17	96.12	39.10	158.58	-235.27	1,752.17	3,030.39	2,950.45	79.94	37.909		
8,200.00	6,624.20	6,956.70	6,606.21	97.54	39.27	159.03	-234.34	1,752.13	3,092.18	3,011.74	80.44	38.439		
8,300.00	6,700.18	7,031.27	6,680.77	98.95	39.44	159.44	-233.55	1,752.16	3,154.11	3,073.17	80.94	38.968		
8,400.00	6,776.16	7,120.77	6,770.26	100.37	39.64	159.91	-232.87	1,752.51	3,216.09	3,134.52	81.57	39.426		
8,500.00	6,852.13	7,214.34	6,863.83	101.78	39.84	160.38	-231.94	1,753.39	3,277.69	3,195.45	82.24	39.855		
8,600.00	6,928.11	7,312.02	6,961.49	103.20	40.05	160.83	-231.09	1,755.01	3,339.03	3,256.09	82.94	40.256		
8,700.00	7,004.09	7,402.97	7,052.41	104.61	40.25	161.23	-230.37	1,757.27	3,399.96	3,316.36	83.60	40.670		
8,800.00	7,080.06	7,475.52	7,124.93	106.02	40.41	161.53	-229.98	1,759.33	3,460.86	3,376.76	84.11	41.149		
8,900.00	7,156.04	7,538.13	7,187.51	107.44	40.54	161.78	-229.92	1,761.02	3,522.12	3,437.59	84.53	41.665		
9,000.00	7,232.02	7,601.01	7,250.37	108.85	40.67	162.01	-230.18	1,762.63	3,583.76	3,498.80	84.97	42.179		
9,104.68	7,311.55	7,662.23	7,311.58	110.33	40.79	162.23	-230.78	1,764.12	3,648.71	3,563.33	85.38	42.735		
9,150.00	7,346.29	7,687.30	7,336.63	110.97	40.84	154.32	-231.17	1,764.70	3,676.17	3,590.63	85.54	42.974		
9,200.00	7,385.15	7,715.30	7,364.62	111.65	40.90	145.68	-231.72	1,765.32	3,704.56	3,618.84	85.72	43.218		
9,250.00	7,424.29	7,756.01	7,405.31	112.31	40.97	137.35	-232.66	1,766.22	3,730.72	3,644.73	85.99	43.384		
9,300.00	7,463.40	7,803.54	7,452.81	112.93	41.07	129.48	-233.79	1,767.40	3,754.36	3,668.04	86.31	43.496		
9,350.00	7,502.19	7,820.00	7,469.26	113.51	41.10	121.89	-234.19	1,767.85	3,775.43	3,689.07	86.36	43.719		
9,400.00	7,540.36	7,856.49	7,505.72	114.04	41.17	115.13	-235.16	1,768.74	3,793.87	3,707.31	86.56	43.830		
9,450.00	7,577.62	7,877.89	7,527.11	114.53	41.21	108.97	-235.81	1,769.16	3,809.76	3,723.15	86.61	43.987		
9,500.00	7,613.70	7,914.00	7,563.20	114.95	41.27	103.73	-237.05	1,769.70	3,823.03	3,736.25	86.78	44.056		
9,550.00	7,648.30	7,914.00	7,563.20	115.32	41.27	98.89	-237.05	1,769.70	3,833.47	3,746.87	86.60	44.265		
9,600.00	7,681.18	7,938.78	7,587.96	115.63	41.32	95.03	-237.97	1,769.94	3,841.18	3,754.55	86.63	44.340		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,650.00	7,712.08	7,957.61	7,606.77	115.88	41.35	91.81	-238.71	1,770.05	3,846.12	3,759.54	86.59	44.419		
9,700.00	7,740.76	7,975.18	7,624.33	116.08	41.38	89.22	-239.41	1,770.11	3,848.28	3,761.76	86.52	44.481		
9,750.00	7,767.01	7,991.38	7,640.51	116.23	41.41	87.20	-240.09	1,770.11	3,847.67	3,761.25	86.42	44.524		
9,800.00	7,790.63	8,009.00	7,658.12	116.33	41.45	85.76	-240.84	1,770.06	3,844.34	3,758.02	86.32	44.534		
9,850.00	7,811.44	8,009.00	7,658.12	116.38	41.45	84.60	-240.84	1,770.06	3,838.35	3,752.29	86.05	44.604		
9,900.00	7,829.28	8,009.00	7,658.12	116.38	41.45	83.92	-240.84	1,770.06	3,829.80	3,744.02	85.78	44.647		
9,950.00	7,844.01	8,035.90	7,684.99	116.35	41.49	84.08	-242.05	1,769.85	3,818.55	3,732.77	85.77	44.520		
10,000.00	7,855.52	8,042.71	7,691.79	116.28	41.51	84.42	-242.37	1,769.78	3,804.93	3,719.35	85.58	44.462		
10,050.00	7,863.72	8,047.94	7,697.01	116.18	41.52	85.19	-242.62	1,769.71	3,788.95	3,703.57	85.38	44.376		
10,100.00	7,868.56	8,051.54	7,700.61	116.06	41.52	86.38	-242.80	1,769.66	3,770.72	3,685.53	85.19	44.260		
10,145.94	7,870.00	8,053.38	7,702.45	115.92	41.53	87.85	-242.89	1,769.63	3,752.08	3,667.05	85.03	44.126		
10,200.00	7,870.00	8,054.72	7,703.79	115.76	41.53	87.87	-242.95	1,769.61	3,729.44	3,644.59	84.85	43.952		
10,300.00	7,870.00	8,057.22	7,706.28	115.46	41.53	87.91	-243.08	1,769.57	3,689.28	3,604.71	84.57	43.625		
10,400.00	7,870.00	8,059.75	7,708.81	115.18	41.54	87.96	-243.20	1,769.53	3,651.41	3,567.06	84.35	43.288		
10,500.00	7,870.00	8,062.31	7,711.37	114.91	41.54	88.00	-243.33	1,769.49	3,615.92	3,531.70	84.21	42.939		
10,600.00	7,870.00	8,064.91	7,713.97	114.65	41.55	88.04	-243.46	1,769.45	3,582.85	3,498.70	84.15	42.577		
10,700.00	7,870.00	8,067.54	7,716.59	114.41	41.55	88.09	-243.59	1,769.40	3,552.30	3,468.12	84.18	42.200		
10,800.00	7,870.00	8,070.21	7,719.26	114.17	41.56	88.13	-243.73	1,769.35	3,524.31	3,440.01	84.30	41.809		
10,900.00	7,870.00	8,072.91	7,721.95	113.95	41.56	88.18	-243.87	1,769.30	3,498.95	3,414.44	84.51	41.403		
11,000.00	7,870.00	8,075.65	7,724.69	113.75	41.57	88.22	-244.01	1,769.25	3,476.28	3,391.46	84.82	40.983		
11,100.00	7,870.00	8,078.42	7,727.46	113.55	41.57	88.27	-244.15	1,769.19	3,456.35	3,371.12	85.23	40.552		
11,200.00	7,870.00	8,081.24	7,730.27	113.37	41.58	88.32	-244.30	1,769.13	3,439.22	3,353.48	85.74	40.113		
11,300.00	7,870.00	8,084.09	7,733.11	113.20	41.58	88.37	-244.45	1,769.07	3,424.91	3,338.57	86.34	39.670		
11,400.00	7,870.00	8,103.00	7,751.99	113.04	41.61	88.68	-245.47	1,768.62	3,413.54	3,326.33	87.20	39.144		
11,500.00	7,870.00	8,318.43	7,966.44	112.89	41.93	92.30	-264.64	1,772.04	3,404.75	3,314.59	90.16	37.763		
11,600.00	7,870.00	8,325.18	7,973.15	112.76	41.94	92.42	-265.31	1,772.36	3,398.53	3,307.54	90.98	37.353		
11,700.00	7,870.00	8,331.45	7,979.38	112.64	41.95	92.52	-265.91	1,772.64	3,395.22	3,303.36	91.86	36.960		
11,762.90	7,870.00	8,335.16	7,983.07	112.57	41.96	92.58	-266.26	1,772.81	3,394.64	3,302.20	92.44	36.721		
11,800.00	7,870.00	8,337.28	7,985.18	112.53	41.96	92.62	-266.45	1,772.91	3,394.84	3,302.06	92.78	36.588		
11,900.00	7,870.00	8,342.72	7,990.60	112.44	41.97	92.71	-266.94	1,773.14	3,397.40	3,303.65	93.75	36.241		
12,000.00	7,870.00	8,347.82	7,995.67	112.36	41.98	92.80	-267.38	1,773.36	3,402.87	3,308.14	94.73	35.920		
12,100.00	7,870.00	8,352.60	8,000.43	112.29	41.98	92.88	-267.78	1,773.56	3,411.26	3,315.52	95.75	35.628		
12,200.00	7,870.00	8,357.08	8,004.89	112.24	41.99	92.95	-268.14	1,773.75	3,422.54	3,325.77	96.77	35.368		
12,300.00	7,870.00	8,361.31	8,009.10	112.20	42.00	93.02	-268.47	1,773.92	3,436.68	3,338.88	97.80	35.139		
12,400.00	7,870.00	8,365.29	8,013.07	112.17	42.00	93.09	-268.78	1,774.08	3,453.66	3,354.82	98.83	34.945		
12,500.00	7,870.00	8,366.00	8,033.72	112.16	42.03	93.44	-270.22	1,774.86	3,473.50	3,373.52	99.98	34.743		
12,600.00	7,870.00	8,386.00	8,033.72	112.17	42.03	93.44	-270.22	1,774.86	3,495.97	3,395.01	100.96	34.627		
12,700.00	7,870.00	8,386.00	8,033.72	112.19	42.03	93.44	-270.22	1,774.86	3,521.15	3,419.22	101.93	34.546		
12,800.00	7,870.00	8,386.00	8,033.72	112.23	42.03	93.44	-270.22	1,774.86	3,548.96	3,446.08	102.87	34.498		
12,900.00	7,870.00	8,386.00	8,033.72	112.28	42.03	93.44	-270.22	1,774.86	3,579.35	3,475.55	103.80	34.484		
13,000.00	7,870.00	8,386.00	8,033.72	112.36	42.03	93.44	-270.22	1,774.86	3,612.25	3,507.55	104.70	34.502		
13,100.00	7,870.00	8,386.00	8,033.72	112.45	42.03	93.44	-270.22	1,774.86	3,647.60	3,542.03	105.57	34.553		
13,200.00	7,870.00	8,386.00	8,033.72	112.56	42.03	93.44	-270.22	1,774.86	3,685.32	3,578.92	106.40	34.635		
13,300.00	7,870.00	8,397.45	8,045.13	112.68	42.05	93.63	-270.93	1,775.27	3,725.33	3,618.05	107.28	34.726		
13,400.00	7,870.00	8,401.51	8,049.18	112.83	42.06	93.70	-271.18	1,775.41	3,767.56	3,659.49	108.07	34.862		
13,500.00	7,870.00	8,405.46	8,053.12	113.00	42.07	93.77	-271.42	1,775.55	3,811.94	3,703.12	108.83	35.028		
13,600.00	7,870.00	8,409.30	8,056.96	113.19	42.07	93.83	-271.65	1,775.68	3,858.41	3,748.86	109.55	35.222		
13,700.00	7,870.00	8,413.04	8,060.69	113.40	42.08	93.90	-271.87	1,775.81	3,906.87	3,796.64	110.23	35.442		
13,800.00	7,870.00	8,416.69	8,064.33	113.63	42.09	93.96	-272.08	1,775.94	3,957.26	3,846.38	110.88	35.689		
13,900.00	7,870.00	8,420.24	8,067.87	113.89	42.09	94.02	-272.28	1,776.06	4,009.51	3,898.01	111.50	35.961		
14,000.00	7,870.00	8,423.70	8,071.33	114.18	42.10	94.07	-272.48	1,776.18	4,063.54	3,951.46	112.08	36.256		
14,100.00	7,870.00	8,427.08	8,074.70	114.48	42.10	94.13	-272.66	1,776.29	4,119.28	4,006.66	112.63	36.574		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,200.00	7,870.00	8,430.37	8,077.98	114.82	42.11	94.19	-272.84	1,776.41	4,176.67	4,063.53	113.15	36.914		
14,300.00	7,870.00	8,433.58	8,081.19	115.18	42.12	94.24	-273.02	1,776.51	4,235.65	4,122.01	113.63	37.275		
14,400.00	7,870.00	8,436.72	8,084.32	115.57	42.12	94.29	-273.19	1,776.62	4,296.13	4,182.04	114.09	37.655		
14,500.00	7,870.00	8,439.78	8,087.37	115.99	42.13	94.35	-273.35	1,776.72	4,358.07	4,243.55	114.52	38.053		
14,600.00	7,870.00	8,442.77	8,090.35	116.44	42.13	94.40	-273.51	1,776.82	4,421.40	4,306.47	114.93	38.470		
14,700.00	7,870.00	8,445.69	8,093.27	116.92	42.14	94.44	-273.66	1,776.92	4,486.06	4,370.75	115.31	38.903		
14,800.00	7,870.00	8,448.54	8,096.11	117.44	42.14	94.49	-273.80	1,777.01	4,551.99	4,436.32	115.67	39.353		
14,900.00	7,870.00	8,451.32	8,098.89	117.98	42.15	94.54	-273.94	1,777.10	4,619.15	4,503.14	116.01	39.818		
15,000.00	7,870.00	8,454.05	8,101.61	118.56	42.15	94.59	-274.08	1,777.19	4,687.48	4,571.15	116.32	40.297		
15,100.00	7,870.00	8,456.71	8,104.27	119.17	42.16	94.63	-274.21	1,777.28	4,756.92	4,640.30	116.62	40.790		
15,200.00	7,870.00	8,459.32	8,106.87	119.81	42.16	94.67	-274.34	1,777.36	4,827.43	4,710.53	116.90	41.297		
15,300.00	7,870.00	8,461.86	8,109.42	120.48	42.17	94.72	-274.46	1,777.44	4,898.97	4,781.81	117.16	41.816		
15,400.00	7,870.00	8,481.00	8,128.52	121.19	42.20	95.04	-275.34	1,778.05	4,971.54	4,854.08	117.45	42.328		
15,500.00	7,870.00	8,481.00	8,128.52	121.93	42.20	95.04	-275.34	1,778.05	5,044.98	4,927.30	117.67	42.873		
15,600.00	7,870.00	8,481.00	8,128.52	122.71	42.20	95.04	-275.34	1,778.05	5,119.32	5,001.44	117.88	43.428		
15,700.00	7,870.00	8,481.00	8,128.52	123.52	42.20	95.04	-275.34	1,778.05	5,194.52	5,076.44	118.07	43.994		
15,800.00	7,870.00	8,481.00	8,128.52	124.36	42.20	95.04	-275.34	1,778.05	5,270.54	5,152.29	118.26	44.569		
15,900.00	7,870.00	8,481.00	8,128.52	125.23	42.20	95.04	-275.34	1,778.05	5,347.36	5,228.93	118.43	45.153		
16,000.00	7,870.00	8,481.00	8,128.52	126.14	42.20	95.04	-275.34	1,778.05	5,424.93	5,306.34	118.59	45.746		
16,100.00	7,870.00	8,481.00	8,128.52	127.07	42.20	95.04	-275.34	1,778.05	5,503.22	5,384.48	118.74	46.348		
16,200.00	7,870.00	8,481.00	8,128.52	128.04	42.20	95.04	-275.34	1,778.05	5,582.21	5,463.33	118.88	46.957		
16,300.00	7,870.00	8,481.00	8,128.52	129.04	42.20	95.04	-275.34	1,778.05	5,661.86	5,542.85	119.01	47.574		
16,400.00	7,870.00	8,481.00	8,128.52	130.06	42.20	95.04	-275.34	1,778.05	5,742.15	5,623.01	119.14	48.198		
16,500.00	7,870.00	8,481.00	8,128.52	131.11	42.20	95.04	-275.34	1,778.05	5,823.05	5,703.79	119.25	48.829		
16,600.00	7,870.00	8,481.00	8,128.52	132.19	42.20	95.04	-275.34	1,778.05	5,904.53	5,785.17	119.36	49.467		
16,700.00	7,870.00	8,481.00	8,128.52	133.29	42.20	95.04	-275.34	1,778.05	5,986.57	5,867.11	119.47	50.110		
16,800.00	7,870.00	8,481.00	8,128.52	134.42	42.20	95.04	-275.34	1,778.05	6,069.16	5,949.59	119.57	50.760		
16,900.00	7,870.00	8,481.00	8,128.52	135.57	42.20	95.04	-275.34	1,778.05	6,152.26	6,032.60	119.66	51.415		
17,000.00	7,870.00	8,481.00	8,128.52	136.75	42.20	95.04	-275.34	1,778.05	6,235.86	6,116.11	119.74	52.076		
17,100.00	7,870.00	8,501.70	8,149.19	137.94	42.24	95.39	-276.23	1,778.68	6,319.86	6,199.98	119.88	52.718		
17,200.00	7,870.00	8,503.66	8,151.15	139.16	42.25	95.42	-276.31	1,778.74	6,404.38	6,284.41	119.96	53.387		
17,300.00	7,870.00	8,505.59	8,153.08	140.39	42.25	95.45	-276.38	1,778.80	6,489.33	6,369.29	120.04	54.060		
17,400.00	7,870.00	8,507.50	8,154.98	141.65	42.25	95.48	-276.46	1,778.85	6,574.71	6,454.60	120.11	54.737		
17,500.00	7,870.00	8,509.38	8,156.86	142.92	42.26	95.52	-276.54	1,778.91	6,660.50	6,540.31	120.18	55.419		
17,600.00	7,870.00	8,511.23	8,158.71	144.21	42.26	95.55	-276.61	1,778.96	6,746.67	6,626.42	120.25	56.106		
17,700.00	7,870.00	8,513.06	8,160.53	145.52	42.27	95.58	-276.68	1,779.02	6,833.22	6,712.91	120.31	56.796		
17,800.00	7,870.00	8,514.86	8,162.33	146.84	42.27	95.61	-276.75	1,779.07	6,920.13	6,799.76	120.37	57.489		
17,900.00	7,870.00	8,516.63	8,164.11	148.18	42.27	95.64	-276.82	1,779.12	7,007.39	6,886.96	120.43	58.187		
18,000.00	7,870.00	8,518.38	8,165.85	149.54	42.28	95.67	-276.89	1,779.17	7,094.99	6,974.51	120.48	58.887		
18,100.00	7,870.00	8,520.11	8,167.58	150.90	42.28	95.70	-276.95	1,779.22	7,182.91	7,062.37	120.54	59.591		
18,200.00	7,870.00	8,521.81	8,169.28	152.28	42.28	95.72	-277.02	1,779.26	7,271.14	7,150.55	120.59	60.298		
18,300.00	7,870.00	8,523.49	8,170.96	153.67	42.29	95.75	-277.08	1,779.31	7,359.67	7,239.04	120.63	61.009		
18,400.00	7,870.00	8,525.15	8,172.62	155.07	42.29	95.78	-277.14	1,779.36	7,448.49	7,327.81	120.68	61.722		
18,500.00	7,870.00	8,526.79	8,174.25	156.49	42.29	95.81	-277.21	1,779.40	7,537.59	7,416.86	120.72	62.437		
18,600.00	7,870.00	8,528.40	8,175.86	157.91	42.30	95.83	-277.27	1,779.45	7,626.96	7,506.19	120.76	63.156		
18,700.00	7,870.00	8,529.99	8,177.45	159.35	42.30	95.86	-277.32	1,779.49	7,716.58	7,595.78	120.81	63.876		
18,800.00	7,870.00	8,531.57	8,179.02	160.79	42.30	95.89	-277.38	1,779.54	7,806.46	7,685.62	120.84	64.599		
18,900.00	7,870.00	8,533.12	8,180.58	162.25	42.30	95.91	-277.44	1,779.58	7,896.59	7,775.70	120.88	65.325		
19,000.00	7,870.00	8,534.65	8,182.11	163.71	42.31	95.94	-277.49	1,779.62	7,986.94	7,866.02	120.92	66.052		
19,100.00	7,870.00	8,536.16	8,183.62	165.18	42.31	95.97	-277.55	1,779.66	8,077.53	7,956.57	120.95	66.782		
19,200.00	7,870.00	8,537.66	8,185.11	166.66	42.31	95.99	-277.60	1,779.70	8,168.33	8,047.34	120.99	67.514		
19,300.00	7,870.00	8,539.13	8,186.58	168.15	42.32	96.01	-277.65	1,779.74	8,259.34	8,138.32	121.02	68.247		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,400.00	7,870.00	8,540.59	8,188.03	169.65	42.32	96.04	-277.70	1,779.78	8,350.56	8,229.51	121.05	68.983	
19,500.00	7,870.00	8,542.02	8,189.47	171.15	42.32	96.06	-277.75	1,779.82	8,441.98	8,320.89	121.08	69.720	
19,600.00	7,870.00	8,543.44	8,190.89	172.66	42.33	96.09	-277.80	1,779.86	8,533.59	8,412.47	121.12	70.458	
19,700.00	7,870.00	8,544.84	8,192.29	174.18	42.33	96.11	-277.85	1,779.89	8,625.38	8,504.24	121.15	71.199	
19,800.00	7,870.00	8,546.23	8,193.67	175.70	42.33	96.13	-277.90	1,779.93	8,717.36	8,596.18	121.17	71.940	
19,889.26	7,870.00	8,547.45	8,194.89	177.06	42.33	96.15	-277.94	1,779.96	8,799.60	8,678.40	121.20	72.604	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	69.41	772.38	2,055.72	2,196.37					
100.00	100.00	63.95	63.95	0.13	0.10	69.41	772.15	2,055.76	2,195.99	2,195.75	0.24	9,255.038		
200.00	200.00	168.55	168.55	0.49	0.36	69.44	770.98	2,055.92	2,195.74	2,194.89	0.86	2,565.784		
300.00	300.00	271.94	271.93	0.85	0.73	69.46	770.22	2,055.73	2,195.31	2,193.73	1.58	1,385.743		
400.00	399.98	361.84	361.83	1.21	1.05	1.33	769.66	2,055.58	2,193.20	2,190.95	2.26	970.858		
500.00	499.84	453.46	453.45	1.56	1.38	1.35	769.13	2,056.01	2,188.20	2,185.26	2.94	744.325		
600.00	599.45	541.91	541.90	1.93	1.69	1.37	768.90	2,056.58	2,180.01	2,176.40	3.61	603.719		
700.00	698.70	634.55	634.53	2.32	2.01	1.40	768.65	2,057.78	2,168.92	2,164.62	4.30	504.321		
800.00	797.47	730.61	730.57	2.72	2.35	1.44	768.43	2,059.08	2,154.46	2,149.46	5.01	430.374		
900.00	895.62	831.65	831.61	3.16	2.71	1.47	768.60	2,060.41	2,136.67	2,130.93	5.73	372.701		
1,000.00	993.06	942.59	942.54	3.63	3.09	1.50	768.96	2,061.34	2,115.05	2,108.56	6.49	325.738		
1,100.00	1,089.64	1,043.47	1,043.41	4.14	3.44	1.50	770.18	2,061.33	2,089.59	2,082.37	7.21	289.695		
1,200.00	1,185.27	1,126.63	1,126.57	4.70	3.72	1.50	771.36	2,061.46	2,060.97	2,053.09	7.88	261.546		
1,300.00	1,279.82	1,232.76	1,232.69	5.31	4.09	1.51	772.78	2,061.78	2,029.15	2,020.51	8.63	235.086		
1,400.00	1,373.17	1,285.45	1,285.36	5.97	4.27	1.51	774.01	2,062.29	1,994.81	1,985.60	9.21	216.584		
1,500.00	1,465.21	1,343.98	1,343.82	6.69	4.48	1.50	776.38	2,063.48	1,958.83	1,949.01	9.82	199.550		
1,600.00	1,555.84	1,409.00	1,408.69	7.47	4.71	1.45	780.25	2,065.63	1,921.26	1,910.81	10.45	183.814		
1,700.00	1,644.94	1,463.36	1,462.85	8.31	4.90	1.39	784.33	2,068.09	1,882.02	1,870.96	11.06	170.152		
1,800.00	1,732.39	1,522.85	1,522.02	9.23	5.12	1.31	789.48	2,071.49	1,841.09	1,829.40	11.69	157.426		
1,900.00	1,818.11	1,579.23	1,577.97	10.21	5.32	1.23	795.02	2,075.56	1,798.65	1,786.32	12.33	145.912		
2,000.00	1,901.97	1,638.93	1,637.08	11.26	5.54	1.12	801.50	2,080.79	1,754.71	1,741.73	12.98	135.196		
2,100.00	1,983.88	1,700.57	1,698.00	12.38	5.78	1.00	808.51	2,087.11	1,709.09	1,695.45	13.65	125.246		
2,200.00	2,063.74	1,764.42	1,760.94	13.57	6.03	0.86	816.40	2,094.42	1,661.72	1,647.39	14.33	115.965		
2,300.00	2,141.45	1,824.01	1,819.51	14.84	6.26	0.71	824.42	2,101.92	1,612.63	1,597.62	15.01	107.457		
2,327.78	2,162.65	1,839.95	1,835.14	15.21	6.33	0.66	826.63	2,104.10	1,598.73	1,583.53	15.20	105.193		
2,400.00	2,217.51	1,881.00	1,875.34	16.17	6.49	0.54	832.42	2,110.05	1,562.86	1,547.18	15.68	99.657		
2,500.00	2,293.49	1,952.28	1,944.99	17.51	6.79	0.32	842.77	2,121.16	1,514.26	1,497.84	16.41	92.260		
2,600.00	2,369.47	2,012.69	2,003.86	18.86	7.05	0.13	851.64	2,131.37	1,466.86	1,449.74	17.12	85.692		
2,700.00	2,445.45	2,070.00	2,059.49	20.22	7.31	-0.01	859.54	2,142.62	1,421.39	1,403.57	17.82	79.757		
2,800.00	2,521.42	2,142.16	2,129.30	21.59	7.63	-0.13	868.65	2,158.44	1,377.48	1,358.89	18.58	74.123		
2,900.00	2,597.40	2,221.61	2,206.00	22.97	8.01	-0.18	877.37	2,177.26	1,334.52	1,315.15	19.38	68.877		
3,000.00	2,673.38	2,298.17	2,279.75	24.34	8.37	-0.15	884.31	2,196.59	1,292.27	1,272.10	20.16	64.087		
3,100.00	2,749.36	2,371.67	2,350.27	25.73	8.74	-0.11	891.12	2,216.16	1,251.26	1,230.31	20.95	59.724		
3,200.00	2,825.33	2,449.85	2,425.00	27.11	9.14	-0.03	898.25	2,237.98	1,211.36	1,189.60	21.76	55.670		
3,300.00	2,901.31	2,511.43	2,483.52	28.50	9.47	0.03	904.25	2,256.18	1,173.16	1,150.63	22.52	52.087		
3,400.00	2,977.29	2,589.70	2,557.32	29.90	9.91	0.09	912.93	2,280.76	1,137.06	1,113.71	23.35	48.699		
3,500.00	3,053.27	2,690.63	2,652.47	31.29	10.49	0.21	923.47	2,312.76	1,101.09	1,076.84	24.26	45.391		
3,600.00	3,129.24	2,790.35	2,746.78	32.69	11.08	0.32	933.89	2,343.41	1,064.22	1,039.06	25.16	42.290		
3,700.00	3,205.22	2,882.73	2,834.22	34.08	11.62	0.37	944.39	2,371.31	1,027.20	1,001.14	26.05	39.427		
3,800.00	3,281.20	2,974.93	2,921.45	35.48	12.18	0.42	955.05	2,399.19	990.28	963.33	26.94	36.752		
3,900.00	3,357.18	3,062.26	3,004.03	36.88	12.72	0.47	965.07	2,425.78	953.52	925.69	27.83	34.264		
4,000.00	3,433.15	3,150.95	3,087.64	38.29	13.27	0.51	975.74	2,453.36	917.56	888.84	28.72	31.946		
4,100.00	3,509.13	3,249.76	3,180.86	39.69	13.89	0.55	987.68	2,483.89	881.44	851.80	29.64	29.738		
4,200.00	3,585.11	3,349.98	3,275.66	41.09	14.52	0.67	998.58	2,514.49	844.54	813.98	30.56	27.640		
4,300.00	3,661.08	3,441.69	3,362.58	42.50	15.10	0.78	1,008.49	2,542.03	807.17	775.71	31.46	25.657		
4,400.00	3,737.06	3,531.23	3,447.27	43.90	15.67	0.85	1,018.96	2,569.14	770.32	737.96	32.37	23.800		
4,500.00	3,813.04	3,629.41	3,540.16	45.31	16.30	0.91	1,030.62	2,598.73	733.44	700.16	33.28	22.039		
4,600.00	3,889.02	3,725.71	3,631.58	46.71	16.90	0.99	1,041.67	2,626.92	695.60	661.42	34.19	20.348		
4,700.00	3,964.99	3,818.34	3,719.50	48.12	17.49	1.12	1,051.76	2,654.27	657.81	622.72	35.10	18.743		
4,800.00	4,040.97	3,911.96	3,808.43	49.53	18.08	1.20	1,062.52	2,681.50	619.82	583.82	36.00	17.215		
4,900.00	4,116.95	4,001.67	3,893.62	50.94	18.65	1.37	1,072.17	2,707.90	581.90	544.97	36.93	15.758		
5,000.00	4,192.93	4,093.35	3,980.47	52.35	19.24	1.53	1,082.57	2,735.32	544.62	506.77	37.85	14.389		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,268.90	4,191.66	4,073.81	53.76	19.87	1.54	1,094.92	2,763.62	506.73	467.99	38.74	13.081		
5,200.00	4,344.88	4,286.13	4,163.80	55.16	20.47	1.57	1,106.28	2,790.02	467.90	428.26	39.64	11.805		
5,300.00	4,420.86	4,376.72	4,250.06	56.57	21.04	1.83	1,115.77	2,816.01	429.21	388.65	40.57	10.580		
5,400.00	4,496.84	4,469.63	4,338.46	57.98	21.62	2.08	1,126.05	2,842.69	390.76	349.28	41.48	9.419		
5,500.00	4,572.81	4,560.63	4,425.16	59.39	22.20	2.30	1,136.35	2,868.35	351.93	309.51	42.43	8.295		
5,600.00	4,648.79	4,650.54	4,510.41	60.81	22.78	2.29	1,148.31	2,894.31	314.36	270.99	43.38	7.247		
5,700.00	4,724.77	4,748.66	4,603.78	62.22	23.40	2.34	1,160.70	2,921.80	275.79	231.59	44.20	6.240		
5,800.00	4,800.74	4,843.81	4,694.84	63.63	23.99	2.72	1,171.12	2,947.35	235.62	190.57	45.05	5.230		
5,900.00	4,876.72	4,938.01	4,785.30	65.04	24.55	3.81	1,179.48	2,972.24	194.45	148.50	45.96	4.231		
6,000.00	4,952.70	5,031.56	4,875.68	66.45	25.08	5.55	1,187.08	2,995.18	151.43	104.47	46.96	3.225		
6,100.00	5,028.68	5,123.37	4,964.65	67.86	25.59	8.41	1,194.70	3,016.45	107.45	59.11	48.34	2.223		
6,200.00	5,104.65	5,214.81	5,053.96	69.27	26.05	16.03	1,201.23	3,034.98	61.16	9.36	51.80	1.181 Level 2		
6,300.00	5,180.63	5,302.23	5,140.01	70.69	26.46	65.07	1,205.81	3,049.64	18.24	-70.43	88.67	0.206 Level 1		
6,315.77	5,192.61	5,315.71	5,153.31	70.91	26.52	88.37	1,206.43	3,051.72	16.29	-81.09	97.38	0.167 Level 1, CC, ES, SF		
6,400.00	5,256.61	5,387.02	5,223.77	72.10	26.82	154.97	1,209.58	3,062.27	47.17	-11.69	58.86	0.801 Level 1		
6,500.00	5,332.59	5,468.17	5,304.26	73.51	27.15	167.65	1,212.88	3,072.03	100.36	48.63	51.73	1.940		
6,600.00	5,408.56	5,545.89	5,381.63	74.92	27.42	171.80	1,215.25	3,078.88	157.48	107.08	50.39	3.125		
6,700.00	5,484.54	5,619.82	5,455.42	76.34	27.65	173.73	1,216.44	3,083.38	217.39	167.41	49.99	4.349		
6,800.00	5,560.52	5,692.16	5,527.72	77.75	27.86	174.94	1,216.98	3,085.66	279.78	229.83	49.95	5.601		
6,900.00	5,636.50	5,765.41	5,600.96	79.16	28.06	175.84	1,217.42	3,086.68	343.51	293.28	50.23	6.839		
7,000.00	5,712.47	5,841.50	5,677.04	80.57	28.26	176.56	1,218.00	3,087.21	407.72	356.93	50.80	8.027		
7,100.00	5,788.45	5,919.84	5,755.38	81.99	28.46	177.10	1,218.68	3,087.80	471.89	420.36	51.53	9.158		
7,200.00	5,864.43	5,998.01	5,833.54	83.40	28.67	177.50	1,219.38	3,088.69	535.79	483.53	52.26	10.253		
7,300.00	5,940.40	6,074.51	5,910.03	84.81	28.88	177.83	1,220.31	3,089.58	599.59	546.67	52.92	11.330		
7,400.00	6,016.38	6,149.34	5,984.85	86.23	29.08	178.09	1,221.18	3,090.24	663.61	610.09	53.53	12.397		
7,500.00	6,092.36	6,224.14	6,059.64	87.64	29.28	178.32	1,222.04	3,090.68	727.86	673.70	54.15	13.441		
7,600.00	6,168.34	6,298.33	6,133.83	89.05	29.48	178.51	1,222.80	3,090.93	792.32	737.55	54.77	14.467		
7,700.00	6,244.31	6,372.38	6,207.88	90.47	29.68	178.66	1,223.32	3,091.06	857.00	801.60	55.39	15.471		
7,800.00	6,320.29	6,448.57	6,284.07	91.88	29.88	178.76	1,223.42	3,091.20	921.83	865.74	56.09	16.433		
7,900.00	6,396.27	6,529.04	6,364.54	93.30	30.09	178.86	1,223.78	3,091.48	986.47	929.55	56.92	17.330		
8,000.00	6,472.25	6,612.91	6,448.41	94.71	30.32	178.94	1,224.10	3,092.34	1,050.65	992.81	57.84	18.165		
8,100.00	6,548.22	6,681.11	6,516.60	96.12	30.51	178.99	1,224.28	3,092.97	1,114.92	1,056.60	58.33	19.115		
8,200.00	6,624.20	6,760.91	6,596.39	97.54	30.73	179.05	1,224.62	3,093.44	1,179.40	1,120.28	59.13	19.947		
8,300.00	6,700.18	6,841.29	6,676.77	98.95	30.96	179.13	1,225.35	3,094.13	1,243.54	1,183.61	59.93	20.748		
8,400.00	6,776.16	6,917.01	6,752.47	100.37	31.17	179.22	1,226.42	3,094.74	1,307.58	1,246.95	60.63	21.568		
8,500.00	6,852.13	6,988.01	6,823.47	101.78	31.37	179.29	1,227.32	3,095.12	1,371.85	1,310.64	61.21	22.412		
8,600.00	6,928.11	7,056.15	6,891.61	103.20	31.56	179.35	1,228.00	3,095.18	1,436.51	1,374.78	61.73	23.269		
8,700.00	7,004.09	7,133.47	6,968.93	104.61	31.77	179.42	1,228.81	3,094.96	1,501.43	1,438.96	62.47	24.035		
8,800.00	7,080.06	7,210.90	7,046.34	106.02	31.98	179.50	1,230.07	3,094.73	1,566.19	1,502.99	63.20	24.781		
8,900.00	7,156.04	7,287.15	7,122.58	107.44	32.20	179.58	1,231.25	3,094.50	1,630.97	1,567.05	63.91	25.519		
9,000.00	7,232.02	7,365.67	7,201.10	108.85	32.41	179.64	1,232.29	3,094.43	1,695.67	1,631.00	64.67	26.220		
9,104.68	7,311.55	7,446.29	7,281.71	110.33	32.64	179.68	1,233.10	3,094.53	1,763.33	1,697.90	65.44	26.947		
9,150.00	7,346.29	7,478.38	7,313.80	110.97	32.73	179.98	1,233.32	3,094.60	1,792.21	1,726.50	65.70	27.277		
9,200.00	7,385.15	7,514.02	7,349.44	111.65	32.83	161.50	1,233.41	3,094.67	1,822.98	1,756.99	65.99	27.625		
9,250.00	7,424.29	7,549.94	7,385.36	112.31	32.93	152.27	1,233.35	3,094.73	1,852.43	1,786.16	66.27	27.952		
9,300.00	7,463.40	7,586.10	7,421.52	112.93	33.02	143.48	1,233.20	3,094.76	1,880.39	1,813.83	66.55	28.254		
9,350.00	7,502.19	7,621.93	7,457.35	113.51	33.12	135.29	1,233.00	3,094.74	1,906.72	1,839.89	66.83	28.530		
9,400.00	7,540.36	7,659.22	7,494.64	114.04	33.21	127.83	1,232.74	3,094.70	1,931.31	1,864.16	67.15	28.760		
9,450.00	7,577.62	7,697.21	7,532.62	114.53	33.31	121.20	1,232.42	3,094.68	1,954.03	1,886.53	67.51	28.946		
9,500.00	7,613.70	7,734.43	7,569.85	114.95	33.41	115.38	1,232.06	3,094.70	1,974.83	1,906.95	67.88	29.094		
9,550.00	7,648.30	7,775.25	7,610.67	115.32	33.52	110.45	1,231.64	3,094.79	1,993.62	1,925.26	68.36	29.163		
9,600.00	7,681.18	7,814.25	7,649.67	115.63	33.62	106.27	1,231.26	3,095.00	2,010.37	1,941.50	68.87	29.193		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,650.00	7,712.08	7,848.16	7,683.57	115.88	33.72	102.70	1,230.96	3,095.25	2,025.12	1,955.77	69.34	29.204		
9,700.00	7,740.76	7,878.39	7,713.80	116.08	33.80	99.70	1,230.78	3,095.47	2,037.95	1,968.11	69.84	29.180		
9,750.00	7,767.01	7,905.88	7,741.29	116.23	33.88	97.23	1,230.70	3,095.67	2,048.92	1,978.54	70.38	29.113		
9,800.00	7,790.63	7,932.86	7,768.27	116.33	33.96	95.28	1,230.68	3,095.87	2,058.06	1,987.05	71.01	28.981		
9,850.00	7,811.44	7,958.72	7,794.13	116.38	34.03	93.79	1,230.68	3,096.11	2,065.40	1,993.66	71.74	28.789		
9,900.00	7,829.28	7,980.95	7,816.36	116.38	34.10	92.66	1,230.68	3,096.38	2,071.01	1,998.48	72.53	28.555		
9,950.00	7,844.01	7,999.34	7,834.75	116.35	34.15	91.83	1,230.68	3,096.63	2,074.95	2,001.58	73.37	28.280		
10,000.00	7,855.52	8,013.73	7,849.13	116.28	34.19	91.28	1,230.68	3,096.84	2,077.29	2,003.01	74.28	27.967		
10,050.00	7,863.72	8,023.98	7,859.38	116.18	34.22	90.97	1,230.69	3,097.01	2,078.08	2,002.84	75.24	27.618		
10,100.00	7,868.56	8,030.01	7,865.41	116.06	34.24	90.89	1,230.69	3,097.11	2,077.37	2,001.10	76.27	27.238		
10,145.94	7,870.00	8,031.79	7,867.18	115.92	34.25	91.00	1,230.69	3,097.14	2,075.43	1,998.17	77.26	26.863		
10,200.00	7,870.00	8,031.75	7,867.14	115.76	34.25	91.00	1,230.69	3,097.14	2,073.12	1,994.63	78.49	26.413		
10,261.51	7,870.00	8,031.70	7,867.10	115.57	34.25	91.00	1,230.69	3,097.14	2,072.21	1,992.23	79.97	25.911		
10,300.00	7,870.00	8,031.67	7,867.07	115.46	34.25	91.00	1,230.69	3,097.14	2,072.56	1,991.63	80.93	25.609		
10,400.00	7,870.00	8,031.60	7,866.99	115.18	34.25	91.00	1,230.69	3,097.14	2,076.83	1,993.28	83.55	24.857		
10,500.00	7,870.00	8,031.52	7,866.92	114.91	34.25	90.99	1,230.69	3,097.14	2,085.89	1,999.60	86.29	24.174		
10,600.00	7,870.00	8,031.45	7,866.85	114.65	34.25	90.99	1,230.69	3,097.14	2,099.67	2,010.59	89.08	23.570		
10,700.00	7,870.00	8,031.37	7,866.77	114.41	34.25	90.99	1,230.69	3,097.14	2,118.09	2,026.20	91.89	23.049		
10,800.00	7,870.00	8,031.30	7,866.70	114.17	34.25	90.99	1,230.69	3,097.13	2,141.03	2,046.35	94.68	22.614		
10,900.00	7,870.00	8,031.23	7,866.62	113.95	34.25	90.99	1,230.69	3,097.13	2,168.34	2,070.94	97.40	22.263		
11,000.00	7,870.00	8,031.15	7,866.55	113.75	34.25	90.98	1,230.69	3,097.13	2,199.86	2,099.84	100.03	21.992		
11,100.00	7,870.00	8,031.08	7,866.48	113.55	34.25	90.98	1,230.69	3,097.13	2,235.42	2,132.87	102.55	21.799		
11,200.00	7,870.00	8,031.00	7,866.40	113.37	34.25	90.98	1,230.69	3,097.13	2,274.82	2,169.88	104.94	21.678		
11,300.00	7,870.00	8,030.93	7,866.33	113.20	34.25	90.98	1,230.69	3,097.13	2,317.87	2,210.67	107.19	21.623		
11,400.00	7,870.00	8,030.86	7,866.26	113.04	34.25	90.97	1,230.69	3,097.13	2,364.36	2,255.06	109.30	21.631		
11,500.00	7,870.00	8,030.79	7,866.18	112.89	34.24	90.97	1,230.69	3,097.13	2,414.10	2,302.83	111.27	21.696		
11,600.00	7,870.00	8,030.71	7,866.11	112.76	34.24	90.97	1,230.69	3,097.12	2,466.90	2,353.80	113.10	21.813		
11,700.00	7,870.00	8,030.64	7,866.04	112.64	34.24	90.97	1,230.69	3,097.12	2,522.56	2,407.78	114.78	21.977		
11,800.00	7,870.00	8,030.57	7,865.97	112.53	34.24	90.97	1,230.69	3,097.12	2,580.89	2,464.56	116.33	22.186		
11,900.00	7,870.00	8,030.50	7,865.89	112.44	34.24	90.96	1,230.69	3,097.12	2,641.72	2,523.97	117.75	22.434		
12,000.00	7,870.00	8,030.42	7,865.82	112.36	34.24	90.96	1,230.69	3,097.12	2,704.88	2,585.83	119.06	22.720		
12,100.00	7,870.00	8,030.35	7,865.75	112.29	34.24	90.96	1,230.69	3,097.12	2,770.21	2,649.97	120.25	23.038		
12,200.00	7,870.00	8,030.28	7,865.68	112.24	34.24	90.96	1,230.69	3,097.12	2,837.57	2,716.23	121.33	23.387		
12,300.00	7,870.00	8,030.21	7,865.61	112.20	34.24	90.96	1,230.69	3,097.12	2,906.80	2,784.48	122.32	23.764		
12,400.00	7,870.00	8,030.14	7,865.54	112.17	34.24	90.95	1,230.69	3,097.11	2,977.78	2,854.56	123.22	24.167		
12,500.00	7,870.00	8,030.07	7,865.46	112.16	34.24	90.95	1,230.69	3,097.11	3,050.39	2,926.35	124.04	24.593		
12,600.00	7,870.00	8,029.99	7,865.39	112.17	34.24	90.95	1,230.69	3,097.11	3,124.51	2,999.73	124.78	25.041		
12,700.00	7,870.00	8,029.92	7,865.32	112.19	34.24	90.95	1,230.69	3,097.11	3,200.04	3,074.59	125.45	25.508		
12,800.00	7,870.00	8,029.85	7,865.25	112.23	34.24	90.95	1,230.69	3,097.11	3,276.88	3,150.82	126.06	25.995		
12,900.00	7,870.00	8,029.78	7,865.18	112.28	34.24	90.95	1,230.69	3,097.11	3,354.95	3,228.33	126.61	26.497		
13,000.00	7,870.00	8,029.71	7,865.11	112.36	34.24	90.94	1,230.69	3,097.11	3,434.15	3,307.03	127.12	27.016		
13,100.00	7,870.00	8,029.64	7,865.04	112.45	34.24	90.94	1,230.69	3,097.11	3,514.41	3,386.84	127.57	27.549		
13,200.00	7,870.00	8,029.57	7,864.97	112.56	34.24	90.94	1,230.69	3,097.10	3,595.66	3,467.68	127.98	28.095		
13,300.00	7,870.00	8,029.50	7,864.90	112.68	34.24	90.94	1,230.69	3,097.10	3,677.83	3,549.48	128.35	28.654		
13,400.00	7,870.00	8,029.43	7,864.83	112.83	34.24	90.94	1,230.69	3,097.10	3,760.87	3,632.18	128.69	29.224		
13,500.00	7,870.00	8,029.36	7,864.76	113.00	34.24	90.93	1,230.69	3,097.10	3,844.72	3,715.72	129.00	29.805		
13,600.00	7,870.00	8,029.29	7,864.69	113.19	34.24	90.93	1,230.69	3,097.10	3,929.32	3,800.05	129.27	30.396		
13,700.00	7,870.00	8,029.22	7,864.62	113.40	34.24	90.93	1,230.69	3,097.10	4,014.63	3,885.11	129.52	30.996		
13,800.00	7,870.00	8,029.15	7,864.55	113.63	34.24	90.93	1,230.69	3,097.10	4,100.60	3,970.85	129.75	31.604		
13,900.00	7,870.00	8,029.08	7,864.48	113.89	34.24	90.93	1,230.69	3,097.10	4,187.20	4,057.25	129.95	32.221		
14,000.00	7,870.00	8,029.01	7,864.41	114.18	34.24	90.92	1,230.69	3,097.10	4,274.38	4,144.24	130.14	32.845		
14,100.00	7,870.00	8,028.95	7,864.34	114.48	34.24	90.92	1,230.69	3,097.09	4,362.11	4,231.81	130.30	33.477		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,200.00	7,870.00	8,028.88	7,864.28	114.82	34.24	90.92	1,230.69	3,097.09	4,450.36	4,319.91	130.45	34.114		
14,300.00	7,870.00	8,028.81	7,864.21	115.18	34.24	90.92	1,230.69	3,097.09	4,539.10	4,408.51	130.59	34.759		
14,400.00	7,870.00	8,028.74	7,864.14	115.57	34.24	90.92	1,230.69	3,097.09	4,628.30	4,497.58	130.71	35.408		
14,500.00	7,870.00	8,028.67	7,864.07	115.99	34.24	90.91	1,230.69	3,097.09	4,717.93	4,587.10	130.82	36.064		
14,600.00	7,870.00	8,028.60	7,864.00	116.44	34.24	90.91	1,230.69	3,097.09	4,807.96	4,677.04	130.92	36.724		
14,700.00	7,870.00	8,028.54	7,863.93	116.92	34.24	90.91	1,230.69	3,097.09	4,898.39	4,767.38	131.01	37.390		
14,800.00	7,870.00	8,028.47	7,863.87	117.44	34.24	90.91	1,230.69	3,097.09	4,989.18	4,858.09	131.09	38.060		
14,900.00	7,870.00	8,028.40	7,863.80	117.98	34.24	90.91	1,230.69	3,097.08	5,080.32	4,949.16	131.16	38.734		
15,000.00	7,870.00	8,028.33	7,863.73	118.56	34.24	90.91	1,230.69	3,097.08	5,171.78	5,040.56	131.22	39.412		
15,100.00	7,870.00	8,028.26	7,863.66	119.17	34.24	90.90	1,230.69	3,097.08	5,263.55	5,132.27	131.28	40.094		
15,200.00	7,870.00	8,028.20	7,863.60	119.81	34.24	90.90	1,230.69	3,097.08	5,355.62	5,224.29	131.33	40.779		
15,300.00	7,870.00	8,028.13	7,863.53	120.48	34.24	90.90	1,230.69	3,097.08	5,447.97	5,316.60	131.38	41.468		
15,400.00	7,870.00	8,028.06	7,863.46	121.19	34.24	90.90	1,230.69	3,097.08	5,540.59	5,409.17	131.42	42.161		
15,500.00	7,870.00	8,028.00	7,863.40	121.93	34.24	90.90	1,230.69	3,097.08	5,633.45	5,502.00	131.45	42.856		
15,600.00	7,870.00	8,027.93	7,863.33	122.71	34.24	90.89	1,230.69	3,097.08	5,726.56	5,595.08	131.48	43.554		
15,700.00	7,870.00	8,027.86	7,863.26	123.52	34.24	90.89	1,230.69	3,097.08	5,819.90	5,688.39	131.51	44.255		
15,800.00	7,870.00	8,027.80	7,863.20	124.36	34.24	90.89	1,230.69	3,097.07	5,913.45	5,781.92	131.53	44.958		
15,900.00	7,870.00	8,027.73	7,863.13	125.23	34.24	90.89	1,230.69	3,097.07	6,007.21	5,875.66	131.55	45.664		
16,000.00	7,870.00	8,027.66	7,863.06	126.14	34.24	90.89	1,230.69	3,097.07	6,101.17	5,969.60	131.57	46.372		
16,100.00	7,870.00	8,027.60	7,863.00	127.07	34.24	90.88	1,230.69	3,097.07	6,195.32	6,063.73	131.59	47.082		
16,200.00	7,870.00	8,027.53	7,862.93	128.04	34.24	90.88	1,230.69	3,097.07	6,289.65	6,158.05	131.60	47.795		
16,300.00	7,870.00	8,027.47	7,862.87	129.04	34.24	90.88	1,230.69	3,097.07	6,384.15	6,252.54	131.61	48.509		
16,400.00	7,870.00	8,027.40	7,862.80	130.06	34.23	90.88	1,230.69	3,097.07	6,478.82	6,347.20	131.62	49.225		
16,500.00	7,870.00	8,027.33	7,862.73	131.11	34.23	90.88	1,230.69	3,097.07	6,573.64	6,442.02	131.62	49.943		
16,600.00	7,870.00	8,027.27	7,862.67	132.19	34.23	90.88	1,230.69	3,097.07	6,668.62	6,536.99	131.63	50.663		
16,700.00	7,870.00	8,027.20	7,862.60	133.29	34.23	90.87	1,230.69	3,097.06	6,763.74	6,632.11	131.63	51.384		
16,800.00	7,870.00	8,027.14	7,862.54	134.42	34.23	90.87	1,230.69	3,097.06	6,859.00	6,727.36	131.63	52.106		
16,900.00	7,870.00	8,027.07	7,862.47	135.57	34.23	90.87	1,230.69	3,097.06	6,954.39	6,822.76	131.64	52.831		
17,000.00	7,870.00	8,027.01	7,862.41	136.75	34.23	90.87	1,230.69	3,097.06	7,049.91	6,918.28	131.64	53.556		
17,100.00	7,870.00	8,026.94	7,862.34	137.94	34.23	90.87	1,230.69	3,097.06	7,145.56	7,013.92	131.64	54.283		
17,200.00	7,870.00	8,026.88	7,862.28	139.16	34.23	90.86	1,230.69	3,097.06	7,241.32	7,109.68	131.63	55.011		
17,300.00	7,870.00	8,026.82	7,862.21	140.39	34.23	90.86	1,230.69	3,097.06	7,337.19	7,205.56	131.63	55.740		
17,400.00	7,870.00	8,026.75	7,862.15	141.65	34.23	90.86	1,230.69	3,097.06	7,433.17	7,301.54	131.63	56.470		
17,500.00	7,870.00	8,026.69	7,862.09	142.92	34.23	90.86	1,230.69	3,097.06	7,529.26	7,397.63	131.63	57.201		
17,600.00	7,870.00	8,026.62	7,862.02	144.21	34.23	90.86	1,230.69	3,097.05	7,625.45	7,493.82	131.62	57.933		
17,700.00	7,870.00	8,026.56	7,861.96	145.52	34.23	90.86	1,230.69	3,097.05	7,721.73	7,590.11	131.62	58.667		
17,800.00	7,870.00	8,026.50	7,861.89	146.84	34.23	90.85	1,230.69	3,097.05	7,818.11	7,686.49	131.62	59.401		
17,900.00	7,870.00	8,026.43	7,861.83	148.18	34.23	90.85	1,230.69	3,097.05	7,914.58	7,782.96	131.61	60.135		
18,000.00	7,870.00	8,026.37	7,861.77	149.54	34.23	90.85	1,230.69	3,097.05	8,011.13	7,879.52	131.61	60.871		
18,100.00	7,870.00	8,026.30	7,861.70	150.90	34.23	90.85	1,230.69	3,097.05	8,107.77	7,976.17	131.60	61.607		
18,200.00	7,870.00	8,026.24	7,861.64	152.28	34.23	90.85	1,230.69	3,097.05	8,204.49	8,072.89	131.60	62.344		
18,300.00	7,870.00	8,026.18	7,861.58	153.67	34.23	90.85	1,230.69	3,097.05	8,301.28	8,169.69	131.60	63.082		
18,400.00	7,870.00	8,026.12	7,861.51	155.07	34.23	90.84	1,230.69	3,097.05	8,398.16	8,266.56	131.59	63.820		
18,500.00	7,870.00	8,026.05	7,861.45	156.49	34.23	90.84	1,230.69	3,097.04	8,495.10	8,363.51	131.59	64.559		
18,600.00	7,870.00	8,025.99	7,861.39	157.91	34.23	90.84	1,230.69	3,097.04	8,592.11	8,460.53	131.58	65.298		
18,700.00	7,870.00	8,025.93	7,861.33	159.35	34.23	90.84	1,230.69	3,097.04	8,689.20	8,557.62	131.58	66.038		
18,800.00	7,870.00	8,025.86	7,861.26	160.79	34.23	90.84	1,230.69	3,097.04	8,786.34	8,654.77	131.57	66.779		
18,900.00	7,870.00	8,025.80	7,861.20	162.25	34.23	90.84	1,230.69	3,097.04	8,883.55	8,751.98	131.57	67.519		
19,000.00	7,870.00	8,025.74	7,861.14	163.71	34.23	90.83	1,230.69	3,097.04	8,980.82	8,849.26	131.57	68.261		
19,100.00	7,870.00	8,025.68	7,861.08	165.18	34.23	90.83	1,230.69	3,097.04	9,078.16	8,946.59	131.56	69.002		
19,200.00	7,870.00	8,025.62	7,861.02	166.66	34.23	90.83	1,230.69	3,097.04	9,175.54	9,043.98	131.56	69.744		
19,300.00	7,870.00	8,025.55	7,860.95	168.15	34.23	90.83	1,230.69	3,097.04	9,272.99	9,141.43	131.56	70.486		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,400.00	7,870.00	8,025.49	7,860.89	169.65	34.23	90.83	1,230.69	3,097.04	9,370.49	9,238.93	131.55	71.229	
19,500.00	7,870.00	8,025.43	7,860.83	171.15	34.23	90.82	1,230.69	3,097.03	9,468.04	9,336.48	131.55	71.971	
19,600.00	7,870.00	8,025.37	7,860.77	172.66	34.23	90.82	1,230.69	3,097.03	9,565.64	9,434.09	131.55	72.714	
19,700.00	7,870.00	8,025.31	7,860.71	174.18	34.23	90.82	1,230.69	3,097.03	9,663.29	9,531.74	131.55	73.458	
19,800.00	7,870.00	8,025.25	7,860.65	175.70	34.23	90.82	1,230.69	3,097.03	9,760.98	9,629.43	131.55	74.201	
19,889.26	7,870.00	8,025.19	7,860.59	177.06	34.23	90.82	1,230.69	3,097.03	9,848.22	9,716.67	131.55	74.865	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	69.88	754.16	2,058.52	2,192.68					
100.00	100.00	81.23	81.22	0.13	0.13	69.88	753.83	2,058.22	2,192.02	2,191.76	0.26	8,340.561		
200.00	200.00	167.74	167.74	0.49	0.41	69.89	753.41	2,057.68	2,191.28	2,190.38	0.91	2,418.420		
300.00	300.00	276.55	276.54	0.85	0.80	69.88	753.71	2,057.05	2,190.85	2,189.20	1.65	1,327.662		
400.00	399.98	382.89	382.88	1.21	1.18	1.73	753.63	2,056.13	2,188.27	2,185.89	2.38	917.764		
500.00	499.84	538.18	538.10	1.56	1.73	1.82	749.73	2,054.12	2,181.09	2,177.80	3.30	661.410		
600.00	599.45	661.86	661.44	1.93	2.18	2.02	741.32	2,051.38	2,167.93	2,163.82	4.11	527.759		
700.00	698.70	741.26	740.41	2.32	2.48	2.25	733.10	2,050.75	2,151.54	2,146.78	4.76	451.819		
800.00	797.47	819.51	818.00	2.72	2.78	2.54	722.97	2,051.61	2,132.64	2,127.22	5.42	393.174		
900.00	895.62	875.77	873.59	3.16	3.00	2.81	714.55	2,053.41	2,111.73	2,105.71	6.01	351.128		
1,000.00	993.06	920.00	917.20	3.63	3.18	3.06	707.57	2,055.82	2,089.50	2,082.94	6.56	318.501		
1,100.00	1,089.64	989.66	985.63	4.14	3.47	3.48	695.76	2,061.24	2,065.69	2,058.46	7.23	285.667		
1,200.00	1,185.27	1,042.69	1,037.48	4.70	3.70	3.86	686.05	2,066.68	2,040.49	2,032.65	7.84	260.322		
1,300.00	1,279.82	1,109.00	1,102.01	5.31	3.99	4.37	673.54	2,075.41	2,014.35	2,005.82	8.53	236.235		
1,400.00	1,373.17	1,148.34	1,140.16	5.97	4.17	4.71	666.06	2,081.43	1,986.79	1,977.69	9.10	218.309		
1,500.00	1,465.21	1,214.02	1,203.78	6.69	4.48	5.28	653.86	2,092.27	1,957.81	1,948.00	9.81	199.551		
1,600.00	1,555.84	1,279.00	1,266.78	7.47	4.79	5.86	642.57	2,103.47	1,926.86	1,916.33	10.53	183.008		
1,700.00	1,644.94	1,350.11	1,335.64	8.31	5.13	6.52	630.54	2,116.52	1,894.02	1,882.73	11.29	167.734		
1,800.00	1,732.39	1,418.51	1,401.60	9.23	5.48	7.23	618.60	2,130.16	1,859.49	1,847.44	12.06	154.222		
1,900.00	1,818.11	1,496.81	1,476.72	10.21	5.89	8.12	604.04	2,146.75	1,822.99	1,810.09	12.90	141.317		
2,000.00	1,901.97	1,588.07	1,564.14	11.26	6.40	9.25	586.44	2,166.15	1,783.68	1,769.84	13.84	128.909		
2,100.00	1,983.88	1,670.62	1,643.21	12.38	6.86	10.39	570.58	2,183.78	1,741.81	1,727.07	14.75	118.114		
2,200.00	2,063.74	1,764.94	1,733.64	13.57	7.39	11.78	552.60	2,203.65	1,697.16	1,681.41	15.74	107.816		
2,300.00	2,141.45	1,830.51	1,796.49	14.84	7.77	12.92	540.25	2,217.67	1,650.30	1,633.70	16.60	99.390		
2,327.78	2,162.65	1,851.76	1,816.85	15.21	7.89	13.29	536.29	2,222.31	1,636.97	1,620.10	16.87	97.044		
2,400.00	2,217.51	1,930.84	1,892.73	16.17	8.35	14.48	521.59	2,239.04	1,601.86	1,584.18	17.68	90.593		
2,500.00	2,293.49	2,006.98	1,965.88	17.51	8.79	15.68	507.46	2,254.72	1,553.38	1,534.72	18.66	83.259		
2,600.00	2,369.47	2,077.31	2,033.36	18.86	9.20	16.84	494.36	2,269.60	1,506.07	1,486.43	19.64	76.678		
2,700.00	2,445.45	2,155.58	2,108.30	20.22	9.67	18.21	479.61	2,286.74	1,460.17	1,439.45	20.72	70.481		
2,800.00	2,521.42	2,253.11	2,201.58	21.59	10.26	20.06	459.98	2,307.33	1,414.48	1,392.51	21.97	64.390		
2,900.00	2,597.40	2,333.99	2,278.99	22.97	10.75	21.70	443.44	2,323.95	1,369.39	1,346.21	23.18	59.065		
3,000.00	2,673.38	2,403.03	2,345.11	24.34	11.16	23.14	429.88	2,338.49	1,325.87	1,301.48	24.38	54.373		
3,100.00	2,749.36	2,487.45	2,425.96	25.73	11.67	24.98	413.74	2,356.60	1,283.87	1,258.12	25.75	49.868		
3,200.00	2,825.33	2,568.52	2,503.57	27.11	12.17	26.86	397.72	2,373.73	1,243.00	1,215.83	27.17	45.746		
3,300.00	2,901.31	2,648.80	2,580.30	28.50	12.66	28.84	381.30	2,390.70	1,203.73	1,175.04	28.69	41.963		
3,400.00	2,977.29	2,729.89	2,657.90	29.90	13.16	30.92	365.25	2,407.87	1,166.10	1,135.81	30.29	38.498		
3,500.00	3,053.27	2,811.06	2,735.67	31.29	13.66	33.08	349.71	2,425.17	1,130.30	1,098.32	31.98	35.341		
3,600.00	3,129.24	2,896.01	2,817.08	32.69	14.17	35.45	333.39	2,443.13	1,096.34	1,062.53	33.81	32.429		
3,700.00	3,205.22	2,995.90	2,913.03	34.08	14.77	38.41	313.99	2,463.04	1,063.63	1,027.75	35.88	29.644		
3,800.00	3,281.20	3,059.04	2,973.67	35.48	15.15	40.34	302.00	2,475.88	1,033.47	995.74	37.72	27.396		
3,900.00	3,357.18	3,137.12	3,048.55	36.88	15.63	42.80	287.26	2,492.38	1,006.52	966.72	39.79	25.293		
4,000.00	3,433.15	3,221.38	3,129.30	38.29	16.14	45.59	270.81	2,509.90	982.31	940.28	42.03	23.370		
4,100.00	3,509.13	3,305.75	3,210.34	39.69	16.65	48.44	255.07	2,527.35	960.69	916.33	44.36	21.659		
4,200.00	3,585.11	3,386.26	3,287.68	41.09	17.14	51.24	240.09	2,543.92	942.15	895.44	46.71	20.170		
4,300.00	3,661.08	3,464.48	3,362.81	42.50	17.61	54.02	225.52	2,560.13	927.09	877.99	49.10	18.882		
4,400.00	3,737.06	3,537.41	3,432.71	43.90	18.06	56.69	211.23	2,575.26	916.06	864.60	51.46	17.801		
4,500.00	3,813.04	3,618.17	3,510.00	45.31	18.56	59.70	195.01	2,592.15	909.16	855.20	53.96	16.850		
4,600.00	3,889.02	3,709.36	3,597.41	46.71	19.12	63.08	177.58	2,611.43	905.65	849.05	56.60	16.001		
4,656.09	3,931.64	3,754.19	3,640.48	47.50	19.39	64.73	169.42	2,620.81	904.95	846.97	57.98	15.609 CC		
4,700.00	3,964.99	3,784.45	3,669.51	48.12	19.58	65.85	163.76	2,627.21	905.42	846.45	58.97	15.354 ES		
4,800.00	4,040.97	3,861.04	3,742.81	49.53	20.05	68.69	148.81	2,643.59	909.86	848.54	61.32	14.838		
4,900.00	4,116.95	3,945.21	3,823.49	50.94	20.57	71.81	132.36	2,661.03	917.77	854.03	63.74	14.399		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,192.93	4,021.99	3,897.00	52.35	21.04	74.58	117.52	2,677.53	929.55	863.61	65.94	14.097		
5,100.00	4,268.90	4,103.96	3,975.45	53.76	21.55	77.49	101.58	2,695.14	944.92	876.78	68.14	13.868		
5,200.00	4,344.88	4,210.25	4,077.53	55.16	22.20	81.15	82.12	2,717.47	962.61	891.93	70.67	13.621		
5,300.00	4,420.86	4,279.57	4,144.17	56.57	22.62	83.46	69.93	2,732.14	982.88	910.45	72.44	13.569 SF		
5,400.00	4,496.84	4,352.58	4,214.25	57.98	23.06	85.84	56.36	2,747.51	1,006.87	932.72	74.15	13.579		
5,500.00	4,572.81	4,426.01	4,284.66	59.39	23.52	88.18	42.06	2,762.65	1,034.25	958.50	75.75	13.654		
5,600.00	4,648.79	4,499.37	4,354.73	60.81	23.98	90.39	27.56	2,778.83	1,064.69	987.44	77.25	13.783		
5,700.00	4,724.77	4,565.46	4,417.69	62.22	24.40	92.30	13.80	2,793.47	1,098.29	1,019.80	78.49	13.992		
5,800.00	4,800.74	4,636.30	4,485.02	63.63	24.87	94.29	-1.78	2,809.02	1,134.91	1,055.15	79.76	14.230		
5,900.00	4,876.72	4,748.42	4,591.64	65.04	25.59	97.25	-25.96	2,833.84	1,173.30	1,091.46	81.84	14.336		
6,000.00	4,952.70	4,838.15	4,677.77	66.45	26.14	99.54	-43.14	2,852.22	1,211.13	1,127.78	83.35	14.531		
6,100.00	5,028.68	4,929.51	4,765.78	67.86	26.68	101.80	-60.24	2,869.79	1,250.29	1,165.50	84.79	14.746		
6,200.00	5,104.65	5,035.73	4,868.80	69.27	27.28	104.37	-78.56	2,888.00	1,289.90	1,203.52	86.39	14.932		
6,300.00	5,180.63	5,162.46	4,992.70	70.69	27.92	107.35	-96.82	2,907.32	1,328.94	1,240.79	88.15	15.076		
6,400.00	5,256.61	5,294.06	5,122.59	72.10	28.50	110.40	-109.91	2,923.75	1,365.90	1,276.20	89.70	15.227		
6,500.00	5,332.59	5,392.39	5,220.30	73.51	28.87	112.71	-117.09	2,932.12	1,403.04	1,312.41	90.63	15.481		
6,600.00	5,408.56	5,496.31	5,323.90	74.92	29.22	115.16	-122.54	2,938.11	1,440.67	1,349.24	91.43	15.756		
6,700.00	5,484.54	5,602.57	5,430.07	76.34	29.52	117.65	-125.44	2,941.32	1,478.57	1,386.50	92.07	16.059		
6,800.00	5,560.52	5,691.10	5,518.58	77.75	29.76	119.69	-126.26	2,942.93	1,517.09	1,424.61	92.48	16.405		
6,900.00	5,636.50	5,772.05	5,599.52	79.16	29.95	121.50	-126.41	2,943.66	1,556.96	1,464.20	92.76	16.785		
7,000.00	5,712.47	5,845.70	5,673.17	80.57	30.13	123.11	-126.33	2,943.89	1,598.36	1,505.43	92.93	17.199		
7,100.00	5,788.45	5,917.59	5,745.06	81.99	30.30	124.63	-126.46	2,943.87	1,641.57	1,548.52	93.05	17.643		
7,200.00	5,864.43	6,009.94	5,837.41	83.40	30.51	126.50	-126.27	2,944.12	1,685.84	1,592.60	93.24	18.080		
7,300.00	5,940.40	6,077.09	5,904.56	84.81	30.66	127.82	-125.97	2,944.10	1,731.31	1,638.04	93.26	18.563		
7,400.00	6,016.38	6,148.18	5,975.65	86.23	30.81	129.17	-125.72	2,943.69	1,778.22	1,684.95	93.27	19.065		
7,500.00	6,092.36	6,225.17	6,052.64	87.64	30.98	130.58	-125.58	2,943.23	1,826.40	1,733.10	93.30	19.575		
7,600.00	6,168.34	6,305.04	6,132.51	89.05	31.16	131.97	-125.35	2,943.13	1,875.38	1,782.03	93.35	20.089		
7,700.00	6,244.31	6,375.11	6,202.58	90.47	31.32	133.14	-125.26	2,943.06	1,925.41	1,832.06	93.35	20.626		
7,800.00	6,320.29	6,448.60	6,276.06	91.88	31.49	134.33	-125.13	2,942.62	1,976.48	1,883.13	93.35	21.174		
7,900.00	6,396.27	6,527.66	6,405.11	93.30	31.78	136.32	-123.75	2,942.45	2,027.73	1,934.04	93.69	21.642		
8,000.00	6,472.25	6,601.22	6,468.66	94.71	31.94	137.23	-122.91	2,943.33	2,078.80	1,985.11	93.69	22.188		
8,100.00	6,548.22	6,708.57	6,536.00	96.12	32.11	138.15	-122.33	2,944.36	2,130.83	2,037.10	93.72	22.736		
8,200.00	6,624.20	6,800.28	6,627.70	97.54	32.35	139.36	-121.69	2,945.55	2,183.71	2,089.78	93.93	23.248		
8,300.00	6,700.18	6,880.47	6,707.85	98.95	32.56	140.35	-120.80	2,947.82	2,236.16	2,142.06	94.10	23.765		
8,400.00	6,776.16	6,940.00	6,767.38	100.37	32.72	141.08	-120.40	2,948.62	2,290.02	2,195.92	94.10	24.336		
8,500.00	6,852.13	6,983.79	6,811.17	101.78	32.83	141.60	-120.32	2,948.69	2,345.17	2,251.20	93.97	24.956		
8,600.00	6,928.11	7,045.05	6,872.42	103.20	32.98	142.32	-120.48	2,948.49	2,401.42	2,307.44	93.97	25.555		
8,700.00	7,004.09	7,126.52	6,953.89	104.61	33.18	143.25	-120.58	2,947.91	2,458.21	2,364.09	94.13	26.116		
8,800.00	7,080.06	7,207.49	7,034.86	106.02	33.37	144.14	-120.29	2,947.15	2,515.26	2,420.99	94.28	26.680		
8,900.00	7,156.04	7,293.73	7,121.08	107.44	33.57	145.07	-119.48	2,946.16	2,572.49	2,478.03	94.46	27.232		
9,000.00	7,232.02	7,365.94	7,193.29	108.85	33.74	145.82	-118.59	2,945.33	2,629.94	2,535.38	94.57	27.811		
9,104.68	7,311.55	7,437.11	7,264.45	110.33	33.91	146.50	-118.45	2,945.05	2,690.69	2,596.02	94.68	28.419		
9,150.00	7,346.29	7,468.28	7,295.63	110.97	33.99	139.67	-118.42	2,944.86	2,716.03	2,621.32	94.72	28.675		
9,200.00	7,385.15	7,502.97	7,330.31	111.65	34.07	132.17	-118.33	2,944.52	2,741.37	2,646.64	94.73	28.938		
9,250.00	7,424.29	7,550.38	7,377.73	112.31	34.19	124.97	-118.18	2,944.07	2,763.76	2,668.94	94.81	29.149		
9,300.00	7,463.40	7,598.52	7,425.87	112.93	34.31	118.09	-118.03	2,943.86	2,782.98	2,688.11	94.87	29.333		
9,350.00	7,502.19	7,642.09	7,469.43	113.51	34.42	111.61	-117.86	2,943.79	2,799.00	2,704.13	94.87	29.503		
9,400.00	7,540.36	7,684.98	7,512.32	114.04	34.53	105.74	-117.62	2,943.75	2,811.81	2,716.98	94.82	29.653		
9,450.00	7,577.62	7,719.40	7,546.74	114.53	34.62	100.44	-117.42	2,943.75	2,821.41	2,726.73	94.68	29.800		
9,500.00	7,613.70	7,751.17	7,578.51	114.95	34.70	95.84	-117.35	2,943.79	2,827.90	2,733.42	94.48	29.932		
9,550.00	7,648.30	7,781.85	7,609.19	115.32	34.78	91.96	-117.40	2,943.88	2,831.28	2,737.05	94.23	30.047		
9,600.00	7,681.18	7,813.73	7,641.07	115.63	34.87	88.82	-117.51	2,943.99	2,831.58	2,737.62	93.96	30.136		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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		
9,650.00	7,712.08	7,844.08	7,671.42	115.88	34.96	86.35	-117.61	2,944.07	2,828.83	2,735.19	93.64	30.209		
9,700.00	7,740.76	7,872.23	7,699.57	116.08	35.04	84.50	-117.70	2,944.14	2,823.12	2,729.85	93.27	30.269		
9,750.00	7,767.01	7,901.05	7,728.39	116.23	35.12	83.27	-117.78	2,944.20	2,814.53	2,721.65	92.87	30.305		
9,800.00	7,790.63	7,928.18	7,755.52	116.33	35.19	82.59	-117.83	2,944.29	2,803.14	2,710.70	92.44	30.324		
9,850.00	7,811.44	7,952.06	7,779.40	116.38	35.26	82.42	-117.87	2,944.38	2,789.08	2,697.13	91.95	30.332		
9,900.00	7,829.28	7,972.51	7,799.85	116.38	35.32	82.71	-117.88	2,944.48	2,772.51	2,681.09	91.42	30.327		
9,950.00	7,844.01	7,989.37	7,816.71	116.35	35.36	83.44	-117.88	2,944.58	2,753.56	2,662.71	90.85	30.309		
10,000.00	7,855.52	8,001.55	7,828.89	116.28	35.40	84.59	-117.89	2,944.65	2,732.40	2,642.17	90.23	30.283		
10,050.00	7,863.72	8,010.63	7,837.96	116.18	35.43	86.17	-117.89	2,944.71	2,709.19	2,619.60	89.59	30.240		
10,100.00	7,868.56	8,015.98	7,843.32	116.06	35.44	88.18	-117.89	2,944.74	2,684.07	2,595.15	88.93	30.182		
10,145.94	7,870.00	8,017.58	7,844.92	115.92	35.45	90.39	-117.89	2,944.75	2,659.47	2,571.15	88.31	30.114		
10,200.00	7,870.00	8,017.59	7,844.93	115.76	35.45	90.39	-117.89	2,944.75	2,630.08	2,542.50	87.58	30.030		
10,300.00	7,870.00	8,017.62	7,844.95	115.46	35.45	90.39	-117.89	2,944.75	2,577.83	2,491.59	86.24	29.892		
10,400.00	7,870.00	8,017.64	7,844.97	115.18	35.45	90.39	-117.89	2,944.75	2,528.45	2,443.53	84.92	29.774		
10,500.00	7,870.00	8,017.66	7,844.99	114.91	35.45	90.39	-117.89	2,944.75	2,482.13	2,398.47	83.66	29.671		
10,600.00	7,870.00	8,017.68	7,845.01	114.65	35.45	90.39	-117.89	2,944.75	2,439.02	2,356.55	82.47	29.574		
10,700.00	7,870.00	8,017.70	7,845.04	114.41	35.45	90.39	-117.89	2,944.75	2,399.32	2,317.92	81.40	29.476		
10,800.00	7,870.00	8,017.72	7,845.06	114.17	35.45	90.39	-117.89	2,944.75	2,363.18	2,282.71	80.47	29.368		
10,900.00	7,870.00	8,017.74	7,845.08	113.95	35.45	90.39	-117.89	2,944.75	2,330.77	2,251.05	79.72	29.238		
11,000.00	7,870.00	8,017.76	7,845.10	113.75	35.45	90.39	-117.89	2,944.75	2,302.25	2,223.08	79.17	29.078		
11,100.00	7,870.00	8,017.78	7,845.12	113.55	35.45	90.39	-117.89	2,944.75	2,277.77	2,198.90	78.87	28.880		
11,200.00	7,870.00	8,017.80	7,845.14	113.37	35.45	90.39	-117.89	2,944.76	2,257.46	2,178.64	78.82	28.640		
11,300.00	7,870.00	8,017.82	7,845.16	113.20	35.45	90.39	-117.89	2,944.76	2,241.43	2,162.39	79.04	28.358		
11,400.00	7,870.00	8,017.84	7,845.18	113.04	35.45	90.39	-117.89	2,944.76	2,229.77	2,150.25	79.52	28.039		
11,500.00	7,870.00	8,017.86	7,845.20	112.89	35.45	90.39	-117.89	2,944.76	2,222.56	2,142.29	80.27	27.690		
11,600.00	7,870.00	8,017.88	7,845.22	112.76	35.45	90.39	-117.89	2,944.76	2,219.83	2,138.59	81.24	27.324		
11,610.60	7,870.00	8,017.89	7,845.22	112.74	35.45	90.39	-117.89	2,944.76	2,219.80	2,138.44	81.36	27.283		
11,700.00	7,870.00	8,017.90	7,845.24	112.64	35.45	90.39	-117.89	2,944.76	2,221.60	2,139.18	82.43	26.953		
11,800.00	7,870.00	8,017.93	7,845.26	112.53	35.45	90.39	-117.89	2,944.76	2,227.87	2,144.08	83.78	26.591		
11,900.00	7,870.00	8,017.95	7,845.28	112.44	35.45	90.39	-117.89	2,944.76	2,238.59	2,153.31	85.28	26.249		
12,000.00	7,870.00	8,017.97	7,845.30	112.36	35.45	90.39	-117.89	2,944.76	2,253.70	2,166.81	86.88	25.939		
12,100.00	7,870.00	8,017.99	7,845.32	112.29	35.45	90.40	-117.89	2,944.76	2,273.11	2,184.55	88.56	25.668		
12,200.00	7,870.00	8,018.01	7,845.34	112.24	35.45	90.40	-117.89	2,944.76	2,296.72	2,206.44	90.27	25.442		
12,300.00	7,870.00	8,018.03	7,845.36	112.20	35.45	90.40	-117.89	2,944.76	2,324.39	2,232.39	92.00	25.264		
12,400.00	7,870.00	8,018.05	7,845.38	112.17	35.45	90.40	-117.89	2,944.76	2,355.99	2,262.26	93.73	25.136		
12,500.00	7,870.00	8,018.07	7,845.40	112.16	35.45	90.40	-117.89	2,944.76	2,391.35	2,295.93	95.42	25.060		
12,600.00	7,870.00	8,018.09	7,845.43	112.17	35.45	90.40	-117.89	2,944.76	2,430.32	2,333.23	97.08	25.034		
12,700.00	7,870.00	8,018.11	7,845.45	112.19	35.45	90.40	-117.89	2,944.76	2,472.71	2,374.03	98.68	25.057		
12,800.00	7,870.00	8,018.13	7,845.47	112.23	35.45	90.40	-117.89	2,944.76	2,518.37	2,418.15	100.23	25.127		
12,900.00	7,870.00	8,018.15	7,845.49	112.28	35.45	90.40	-117.89	2,944.76	2,567.11	2,465.41	101.70	25.242		
13,000.00	7,870.00	8,018.17	7,845.51	112.36	35.45	90.40	-117.89	2,944.76	2,618.77	2,515.66	103.11	25.399		
13,100.00	7,870.00	8,018.19	7,845.53	112.45	35.45	90.40	-117.89	2,944.76	2,673.17	2,568.73	104.44	25.596		
13,200.00	7,870.00	8,018.21	7,845.55	112.56	35.45	90.40	-117.89	2,944.76	2,730.15	2,624.45	105.70	25.830		
13,300.00	7,870.00	8,018.23	7,845.57	112.68	35.45	90.40	-117.89	2,944.76	2,789.55	2,682.67	106.88	26.099		
13,400.00	7,870.00	8,018.25	7,845.59	112.83	35.45	90.40	-117.90	2,944.76	2,851.22	2,743.22	108.00	26.400		
13,500.00	7,870.00	8,018.27	7,845.61	113.00	35.45	90.40	-117.90	2,944.76	2,915.02	2,805.97	109.05	26.731		
13,600.00	7,870.00	8,018.29	7,845.63	113.19	35.45	90.40	-117.90	2,944.76	2,980.81	2,870.78	110.03	27.090		
13,700.00	7,870.00	8,018.31	7,845.65	113.40	35.45	90.40	-117.90	2,944.76	3,048.46	2,937.51	110.95	27.475		
13,800.00	7,870.00	8,018.33	7,845.67	113.63	35.45	90.40	-117.90	2,944.76	3,117.85	3,006.04	111.81	27.884		
13,900.00	7,870.00	8,018.35	7,845.69	113.89	35.45	90.40	-117.90	2,944.76	3,188.87	3,076.25	112.62	28.315		
14,000.00	7,870.00	8,018.37	7,845.71	114.18	35.45	90.41	-117.90	2,944.76	3,261.40	3,148.03	113.37	28.767		
14,100.00	7,870.00	8,018.39	7,845.73	114.48	35.45	90.41	-117.90	2,944.76	3,335.36	3,221.28	114.08	29.238		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,200.00	7,870.00	8,018.41	7,845.75	114.82	35.45	90.41	-117.90	2,944.76	3,410.65	3,295.91	114.73	29.727		
14,300.00	7,870.00	8,018.43	7,845.77	115.18	35.45	90.41	-117.90	2,944.76	3,487.17	3,371.83	115.35	30.232		
14,400.00	7,870.00	8,018.45	7,845.79	115.57	35.45	90.41	-117.90	2,944.76	3,564.87	3,448.95	115.92	30.753		
14,500.00	7,870.00	8,018.47	7,845.81	115.99	35.45	90.41	-117.90	2,944.76	3,643.64	3,527.19	116.46	31.288		
14,600.00	7,870.00	8,018.49	7,845.83	116.44	35.45	90.41	-117.90	2,944.76	3,723.44	3,606.49	116.96	31.836		
14,700.00	7,870.00	8,018.51	7,845.85	116.92	35.45	90.41	-117.90	2,944.76	3,804.20	3,686.77	117.43	32.396		
14,800.00	7,870.00	8,018.53	7,845.87	117.44	35.45	90.41	-117.90	2,944.76	3,885.84	3,767.98	117.87	32.968		
14,900.00	7,870.00	8,018.55	7,845.89	117.98	35.45	90.41	-117.90	2,944.76	3,968.33	3,850.06	118.28	33.551		
15,000.00	7,870.00	8,018.57	7,845.91	118.56	35.45	90.41	-117.90	2,944.76	4,051.61	3,932.95	118.66	34.144		
15,100.00	7,870.00	8,018.59	7,845.93	119.17	35.45	90.41	-117.90	2,944.76	4,135.63	4,016.61	119.02	34.746		
15,200.00	7,870.00	8,018.61	7,845.95	119.81	35.45	90.41	-117.90	2,944.76	4,220.34	4,100.98	119.36	35.358		
15,300.00	7,870.00	8,018.63	7,845.97	120.48	35.45	90.41	-117.90	2,944.76	4,305.72	4,186.04	119.68	35.977		
15,400.00	7,870.00	8,018.65	7,845.99	121.19	35.45	90.41	-117.90	2,944.76	4,391.70	4,271.73	119.98	36.604		
15,500.00	7,870.00	8,018.67	7,846.01	121.93	35.45	90.41	-117.90	2,944.76	4,478.27	4,358.01	120.26	37.238		
15,600.00	7,870.00	8,018.69	7,846.03	122.71	35.45	90.41	-117.90	2,944.76	4,565.39	4,444.87	120.52	37.879		
15,700.00	7,870.00	8,018.71	7,846.05	123.52	35.45	90.41	-117.90	2,944.76	4,653.03	4,532.26	120.77	38.527		
15,800.00	7,870.00	8,018.73	7,846.07	124.36	35.45	90.41	-117.90	2,944.76	4,741.16	4,620.15	121.01	39.180		
15,900.00	7,870.00	8,018.75	7,846.08	125.23	35.45	90.42	-117.90	2,944.76	4,829.75	4,708.52	121.23	39.839		
16,000.00	7,870.00	8,018.77	7,846.10	126.14	35.45	90.42	-117.90	2,944.76	4,918.77	4,797.33	121.44	40.504		
16,100.00	7,870.00	8,018.79	7,846.12	127.07	35.45	90.42	-117.90	2,944.76	5,008.22	4,886.58	121.64	41.173		
16,200.00	7,870.00	8,018.81	7,846.14	128.04	35.45	90.42	-117.90	2,944.76	5,098.05	4,976.22	121.83	41.847		
16,300.00	7,870.00	8,018.83	7,846.16	129.04	35.45	90.42	-117.90	2,944.76	5,188.25	5,066.25	122.00	42.526		
16,400.00	7,870.00	8,018.85	7,846.18	130.06	35.45	90.42	-117.90	2,944.76	5,278.81	5,156.64	122.17	43.208		
16,500.00	7,870.00	8,018.87	7,846.20	131.11	35.45	90.42	-117.90	2,944.76	5,369.71	5,247.37	122.33	43.895		
16,600.00	7,870.00	8,018.89	7,846.22	132.19	35.45	90.42	-117.90	2,944.76	5,460.92	5,338.43	122.48	44.585		
16,700.00	7,870.00	8,018.90	7,846.24	133.29	35.45	90.42	-117.90	2,944.76	5,552.43	5,429.81	122.63	45.279		
16,800.00	7,870.00	8,018.92	7,846.26	134.42	35.45	90.42	-117.90	2,944.76	5,644.23	5,521.47	122.76	45.976		
16,900.00	7,870.00	8,018.94	7,846.28	135.57	35.45	90.42	-117.90	2,944.76	5,736.31	5,613.42	122.89	46.677		
17,000.00	7,870.00	8,018.96	7,846.30	136.75	35.45	90.42	-117.90	2,944.76	5,828.65	5,705.63	123.02	47.380		
17,100.00	7,870.00	8,018.98	7,846.32	137.94	35.45	90.42	-117.90	2,944.76	5,921.23	5,798.10	123.14	48.086		
17,200.00	7,870.00	8,019.00	7,846.34	139.16	35.45	90.42	-117.90	2,944.76	6,014.06	5,890.81	123.25	48.795		
17,300.00	7,870.00	8,019.02	7,846.36	140.39	35.45	90.42	-117.90	2,944.76	6,107.11	5,983.75	123.36	49.506		
17,400.00	7,870.00	8,019.04	7,846.38	141.65	35.45	90.42	-117.90	2,944.76	6,200.38	6,076.91	123.46	50.220		
17,500.00	7,870.00	8,019.06	7,846.40	142.92	35.45	90.42	-117.90	2,944.76	6,293.85	6,170.29	123.56	50.936		
17,600.00	7,870.00	8,019.08	7,846.42	144.21	35.45	90.42	-117.90	2,944.76	6,387.52	6,263.86	123.66	51.654		
17,700.00	7,870.00	8,019.10	7,846.44	145.52	35.45	90.42	-117.90	2,944.76	6,481.38	6,357.63	123.75	52.374		
17,800.00	7,870.00	8,019.12	7,846.45	146.84	35.45	90.42	-117.90	2,944.76	6,575.42	6,451.58	123.84	53.096		
17,900.00	7,870.00	8,019.14	7,846.47	148.18	35.45	90.43	-117.90	2,944.76	6,669.64	6,545.71	123.92	53.820		
18,000.00	7,870.00	8,019.16	7,846.49	149.54	35.45	90.43	-117.90	2,944.76	6,764.02	6,640.01	124.01	54.546		
18,100.00	7,870.00	8,019.18	7,846.51	150.90	35.45	90.43	-117.90	2,944.76	6,858.56	6,734.47	124.09	55.273		
18,200.00	7,870.00	8,019.20	7,846.53	152.28	35.45	90.43	-117.90	2,944.76	6,953.25	6,829.09	124.16	56.002		
18,300.00	7,870.00	8,019.21	7,846.55	153.67	35.45	90.43	-117.90	2,944.76	7,048.09	6,923.86	124.23	56.732		
18,400.00	7,870.00	8,019.23	7,846.57	155.07	35.45	90.43	-117.90	2,944.76	7,143.07	7,018.76	124.31	57.464		
18,500.00	7,870.00	8,019.25	7,846.59	156.49	35.45	90.43	-117.90	2,944.77	7,238.19	7,113.81	124.38	58.196		
18,600.00	7,870.00	8,019.27	7,846.61	157.91	35.45	90.43	-117.90	2,944.77	7,333.43	7,208.99	124.44	58.931		
18,700.00	7,870.00	8,019.29	7,846.63	159.35	35.45	90.43	-117.90	2,944.77	7,428.80	7,304.30	124.51	59.666		
18,800.00	7,870.00	8,019.31	7,846.65	160.79	35.45	90.43	-117.90	2,944.77	7,524.29	7,399.72	124.57	60.402		
18,900.00	7,870.00	8,019.33	7,846.67	162.25	35.45	90.43	-117.90	2,944.77	7,619.90	7,495.27	124.63	61.140		
19,000.00	7,870.00	8,019.35	7,846.69	163.71	35.45	90.43	-117.90	2,944.77	7,715.62	7,590.93	124.69	61.878		
19,100.00	7,870.00	8,019.37	7,846.70	165.18	35.45	90.43	-117.90	2,944.77	7,811.44	7,686.69	124.75	62.618		
19,200.00	7,870.00	8,019.39	7,846.72	166.66	35.45	90.43	-117.90	2,944.77	7,907.37	7,782.56	124.80	63.358		
19,300.00	7,870.00	8,019.41	7,846.74	168.15	35.45	90.43	-117.90	2,944.77	8,003.40	7,878.54	124.86	64.099		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,400.00	7,870.00	8,019.42	7,846.76	169.65	35.45	90.43	-117.90	2,944.77	8,099.52	7,974.61	124.91	64.841	
19,500.00	7,870.00	8,019.44	7,846.78	171.15	35.45	90.43	-117.90	2,944.77	8,195.74	8,070.77	124.97	65.584	
19,600.00	7,870.00	8,019.46	7,846.80	172.66	35.45	90.43	-117.90	2,944.77	8,292.05	8,167.03	125.02	66.327	
19,700.00	7,870.00	8,019.48	7,846.82	174.18	35.45	90.43	-117.90	2,944.77	8,388.44	8,263.37	125.07	67.071	
19,800.00	7,870.00	8,019.50	7,846.84	175.70	35.45	90.43	-117.90	2,944.77	8,484.91	8,359.80	125.12	67.815	
19,889.26	7,870.00	8,019.52	7,846.85	177.06	35.45	90.44	-117.90	2,944.77	8,571.09	8,445.93	125.16	68.480	

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 31-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 109-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	82.02	747.36	5,334.45	5,387.14					
100.00	100.00	1,152.00	1,134.43	0.13	4.79	80.90	832.28	5,194.58	5,377.57	5,372.78	4.80	1,121.059		
200.00	200.00	1,202.36	1,183.13	0.49	5.06	80.81	838.38	5,183.32	5,357.24	5,352.04	5.20	1,030.486		
300.00	300.00	1,248.90	1,228.29	0.85	5.31	80.74	843.76	5,173.43	5,337.88	5,332.19	5.69	937.892		
400.00	399.98	1,327.67	1,304.85	1.21	5.73	12.56	852.69	5,157.19	5,317.51	5,311.13	6.37	834.185		
500.00	499.84	1,445.42	1,419.17	1.56	6.37	12.48	866.87	5,132.81	5,293.86	5,286.60	7.26	729.291		
600.00	599.45	1,635.52	1,602.85	1.93	7.44	12.28	892.93	5,091.36	5,266.36	5,257.85	8.51	618.944		
700.00	698.70	1,704.96	1,669.83	2.32	7.84	12.30	902.26	5,075.60	5,234.51	5,225.32	9.19	569.579		
800.00	797.47	1,802.26	1,763.73	2.72	8.40	12.30	915.39	5,053.72	5,199.68	5,189.68	10.01	519.675		
900.00	895.62	1,867.52	1,826.79	3.16	8.76	12.38	923.80	5,039.21	5,161.86	5,151.19	10.67	483.880		
1,000.00	993.06	1,924.41	1,881.93	3.63	9.08	12.50	930.56	5,026.97	5,121.45	5,110.16	11.29	453.625		
1,100.00	1,089.64	1,974.37	1,930.50	4.14	9.35	12.65	936.12	5,016.65	5,078.64	5,066.76	11.88	427.476		
1,200.00	1,185.27	2,062.93	2,016.73	4.70	9.82	12.79	945.69	4,998.89	5,033.27	5,020.63	12.64	398.156		
1,300.00	1,279.82	2,196.59	2,146.53	5.31	10.55	12.90	961.27	4,971.03	4,984.32	4,970.71	13.61	366.274		
1,400.00	1,373.17	2,270.02	2,217.72	5.97	10.96	13.09	970.28	4,955.44	4,932.19	4,917.87	14.32	344.447		
1,500.00	1,465.21	2,330.79	2,276.67	6.69	11.29	13.33	977.74	4,942.73	4,877.49	4,862.51	14.98	325.658		
1,600.00	1,555.84	2,398.48	2,342.44	7.47	11.66	13.60	985.85	4,928.92	4,820.34	4,804.67	15.67	307.634		
1,700.00	1,644.94	2,483.30	2,424.79	8.31	12.12	13.89	996.40	4,911.60	4,760.50	4,744.06	16.44	289.610		
1,800.00	1,732.39	2,570.07	2,508.96	9.23	12.60	14.22	1,007.49	4,893.61	4,697.78	4,680.56	17.22	272.834		
1,900.00	1,818.11	2,626.21	2,563.46	10.21	12.91	14.62	1,014.49	4,882.11	4,632.62	4,614.74	17.87	259.213		
2,000.00	1,901.97	2,687.99	2,623.55	11.26	13.24	15.08	1,021.76	4,869.76	4,565.20	4,546.66	18.55	246.160		
2,100.00	1,983.88	2,759.35	2,693.11	12.38	13.62	15.61	1,029.34	4,855.74	4,495.46	4,476.20	19.26	233.461		
2,200.00	2,063.74	2,960.21	2,887.65	13.57	14.74	16.22	1,054.32	4,812.56	4,422.24	4,401.77	20.47	216.076		
2,300.00	2,141.45	3,003.36	2,929.32	14.84	14.99	16.91	1,059.71	4,802.75	4,346.01	4,324.94	21.07	206.256		
2,327.78	2,162.65	3,022.00	2,947.34	15.21	15.09	17.12	1,062.08	4,798.58	4,324.51	4,303.25	21.27	203.339		
2,400.00	2,217.51	3,045.48	2,970.03	16.17	15.23	17.13	1,065.15	4,793.36	4,268.51	4,246.83	21.68	196.916		
2,500.00	2,293.49	3,087.87	3,010.95	17.51	15.47	17.15	1,071.04	4,784.04	4,191.24	4,168.95	22.29	188.039		
2,600.00	2,369.47	3,146.25	3,067.26	18.86	15.81	17.16	1,079.81	4,771.38	4,114.25	4,091.28	22.97	179.101		
2,700.00	2,445.45	3,223.42	3,141.60	20.22	16.26	17.16	1,091.65	4,754.35	4,037.06	4,013.33	23.73	170.135		
2,800.00	2,521.42	3,273.15	3,189.49	21.59	16.55	17.16	1,099.41	4,743.40	3,959.93	3,935.53	24.40	162.301		
2,900.00	2,597.40	3,341.82	3,255.61	22.97	16.95	17.16	1,110.28	4,728.43	3,882.97	3,857.83	25.14	154.475		
3,000.00	2,673.38	3,438.02	3,348.20	24.34	17.52	17.17	1,125.09	4,706.92	3,805.60	3,779.64	25.96	146.618		
3,100.00	2,749.36	3,524.16	3,431.13	25.73	18.03	17.19	1,137.35	4,687.15	3,727.73	3,701.00	26.73	139.447		
3,200.00	2,825.33	3,600.08	3,504.39	27.11	18.47	17.25	1,146.83	4,669.59	3,649.59	3,622.11	27.47	132.845		
3,300.00	2,901.31	3,626.27	3,529.72	28.50	18.62	17.28	1,149.99	4,663.72	3,571.73	3,543.63	28.10	127.115		
3,400.00	2,977.29	3,661.43	3,563.76	29.90	18.81	17.31	1,154.19	4,656.04	3,494.36	3,465.60	28.76	121.506		
3,500.00	3,053.27	3,732.88	3,633.04	31.29	19.22	17.39	1,162.78	4,640.80	3,417.33	3,387.84	29.50	115.861		
3,600.00	3,129.24	3,800.40	3,698.38	32.69	19.60	17.45	1,171.11	4,625.96	3,339.91	3,309.68	30.23	110.497		
3,700.00	3,205.22	3,846.18	3,742.70	34.08	19.85	17.50	1,176.93	4,616.06	3,262.74	3,231.81	30.93	105.482		
3,800.00	3,281.20	3,931.03	3,824.83	35.48	20.33	17.58	1,187.88	4,597.79	3,185.70	3,154.01	31.69	100.524		
3,900.00	3,357.18	3,992.61	3,884.38	36.88	20.68	17.64	1,195.59	4,584.13	3,108.18	3,075.76	32.42	95.869		
4,000.00	3,433.15	4,037.15	3,927.56	38.29	20.93	17.70	1,200.84	4,574.54	3,031.00	2,997.86	33.14	91.448		
4,100.00	3,509.13	4,079.24	3,968.46	39.69	21.16	17.77	1,205.52	4,565.80	2,954.25	2,920.37	33.87	87.211		
4,200.00	3,585.11	4,120.02	4,008.20	41.09	21.37	17.86	1,209.75	4,557.70	2,878.00	2,843.39	34.62	83.140		
4,300.00	3,661.08	4,162.10	4,049.33	42.50	21.59	17.95	1,213.79	4,549.74	2,802.30	2,766.93	35.37	79.226		
4,400.00	3,737.06	4,206.38	4,092.72	43.90	21.80	18.08	1,217.61	4,541.77	2,727.13	2,690.99	36.13	75.472		
4,500.00	3,813.04	4,243.00	4,128.69	45.31	21.98	18.20	1,220.41	4,535.50	2,652.50	2,615.58	36.92	71.841		
4,600.00	3,889.02	4,286.53	4,171.55	46.71	22.18	18.36	1,223.37	4,528.54	2,578.55	2,540.83	37.71	68.372		
4,700.00	3,964.99	4,337.00	4,221.41	48.12	22.40	18.57	1,226.37	4,521.27	2,505.47	2,466.95	38.52	65.046		
4,800.00	4,040.97	4,362.81	4,246.95	49.53	22.50	18.69	1,227.76	4,517.88	2,433.13	2,393.76	39.37	61.798		
4,900.00	4,116.95	4,402.31	4,286.12	50.94	22.66	18.88	1,229.78	4,513.13	2,361.72	2,321.49	40.23	58.703		
5,000.00	4,192.93	4,447.62	4,331.12	52.35	22.84	19.12	1,231.92	4,508.27	2,291.22	2,250.12	41.10	55.741		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,268.90	4,504.20	4,387.37	53.76	23.05	19.45	1,234.14	4,502.69	2,221.31	2,179.33	41.98	52.914		
5,200.00	4,344.88	4,554.96	4,437.89	55.16	23.23	19.77	1,235.75	4,498.09	2,151.99	2,109.09	42.89	50.172		
5,300.00	4,420.86	4,603.48	4,486.24	56.57	23.39	20.10	1,237.21	4,494.23	2,083.49	2,039.65	43.84	47.527		
5,400.00	4,496.84	4,653.04	4,535.67	57.98	23.55	20.47	1,238.53	4,490.85	2,015.87	1,971.06	44.81	44.987		
5,500.00	4,572.81	4,710.00	4,592.54	59.39	23.73	20.93	1,239.44	4,487.73	1,949.20	1,903.39	45.80	42.555		
5,600.00	4,648.79	4,761.43	4,643.92	60.81	23.88	21.39	1,239.70	4,485.47	1,883.35	1,836.50	46.85	40.201		
5,700.00	4,724.77	4,821.39	4,703.83	62.22	24.04	21.98	1,239.36	4,483.33	1,818.24	1,770.32	47.92	37.941		
5,800.00	4,800.74	4,883.38	4,765.80	63.63	24.21	22.63	1,239.14	4,481.54	1,753.84	1,704.80	49.04	35.766		
5,900.00	4,876.72	4,937.30	4,819.71	65.04	24.35	23.21	1,239.17	4,480.43	1,690.31	1,640.09	50.22	33.659		
6,000.00	4,952.70	4,991.00	4,873.40	66.45	24.48	23.82	1,239.13	4,480.08	1,628.03	1,576.57	51.46	31.636		
6,100.00	5,028.68	5,067.28	4,949.69	67.86	24.66	24.76	1,239.01	4,480.09	1,566.52	1,513.82	52.71	29.722		
6,200.00	5,104.65	5,150.01	5,032.41	69.27	24.86	25.85	1,238.91	4,479.88	1,505.12	1,451.11	54.01	27.866		
6,300.00	5,180.63	5,231.06	5,113.46	70.69	25.06	27.01	1,238.85	4,479.29	1,443.69	1,388.28	55.41	26.056		
6,400.00	5,256.61	5,307.60	5,189.99	72.10	25.26	28.19	1,238.73	4,478.54	1,382.45	1,325.54	56.91	24.290		
6,500.00	5,332.59	5,382.14	5,264.54	73.51	25.46	29.44	1,238.70	4,477.86	1,321.69	1,263.16	58.53	22.580		
6,600.00	5,408.56	5,459.38	5,341.77	74.92	25.66	30.85	1,238.70	4,477.11	1,261.38	1,201.11	60.27	20.929		
6,700.00	5,484.54	5,537.30	5,419.68	76.34	25.87	32.40	1,238.56	4,476.20	1,201.49	1,139.35	62.15	19.333		
6,800.00	5,560.52	5,616.82	5,499.20	77.75	26.09	34.16	1,238.12	4,475.02	1,142.06	1,077.87	64.20	17.790		
6,900.00	5,636.50	5,695.56	5,577.92	79.16	26.30	36.08	1,237.42	4,473.51	1,083.12	1,016.67	66.45	16.300		
7,000.00	5,712.47	5,771.90	5,654.24	80.57	26.51	38.14	1,236.75	4,471.81	1,024.88	955.94	68.94	14.866		
7,100.00	5,788.45	5,846.13	5,728.44	81.99	26.72	40.34	1,236.08	4,470.12	967.73	896.03	71.70	13.497		
7,200.00	5,864.43	5,920.46	5,802.75	83.40	26.92	42.77	1,235.29	4,468.41	911.91	837.15	74.76	12.197		
7,300.00	5,940.40	5,991.06	5,873.33	84.81	27.12	45.31	1,234.44	4,466.91	857.83	779.65	78.17	10.974		
7,400.00	6,016.38	6,064.43	5,946.68	86.23	27.32	48.20	1,233.55	4,465.63	805.93	723.99	81.94	9.836		
7,500.00	6,092.36	6,139.72	6,021.96	87.64	27.53	51.45	1,232.71	4,464.31	756.31	670.22	86.09	8.785		
7,600.00	6,168.34	6,215.46	6,097.69	89.05	27.74	55.02	1,232.17	4,463.03	709.38	618.73	90.65	7.826		
7,700.00	6,244.31	6,292.18	6,174.39	90.47	27.96	58.96	1,231.99	4,461.72	665.59	570.00	95.58	6.963		
7,800.00	6,320.29	6,373.76	6,255.96	91.88	28.20	63.50	1,232.49	4,460.15	625.28	524.44	100.84	6.201		
7,900.00	6,396.27	6,448.16	6,330.33	93.30	28.42	67.97	1,233.62	4,458.58	589.12	482.80	106.32	5.541		
8,000.00	6,472.25	6,520.33	6,402.48	94.71	28.64	72.62	1,234.52	4,457.34	558.83	447.00	111.83	4.997		
8,100.00	6,548.22	6,592.72	6,474.87	96.12	28.86	77.54	1,235.20	4,456.41	535.37	418.31	117.06	4.573		
8,200.00	6,624.20	6,664.26	6,546.40	97.54	29.07	82.62	1,235.48	4,455.77	519.70	398.09	121.61	4.273		
8,300.00	6,700.18	6,738.78	6,620.92	98.95	29.28	88.04	1,235.42	4,455.29	512.40	387.29	125.11	4.095		
8,337.02	6,728.31	6,766.60	6,648.74	99.48	29.36	90.07	1,235.39	4,455.14	511.83	385.75	126.08	4.060 CC, ES		
8,400.00	6,776.16	6,812.81	6,694.95	100.37	29.49	93.45	1,235.29	4,454.93	513.54	386.29	127.26	4.035 SF		
8,500.00	6,852.13	6,887.11	6,769.24	101.78	29.69	98.82	1,234.88	4,454.71	523.22	395.26	127.96	4.089		
8,600.00	6,928.11	6,963.61	6,845.75	103.20	29.90	104.18	1,234.47	4,454.52	540.68	413.31	127.37	4.245		
8,700.00	7,004.09	7,038.17	6,920.30	104.61	30.10	109.15	1,234.04	4,454.43	565.23	439.51	125.71	4.496		
8,800.00	7,080.06	7,115.27	6,997.40	106.02	30.31	113.99	1,233.59	4,454.42	595.94	472.55	123.39	4.830		
8,900.00	7,156.04	7,191.46	7,073.59	107.44	30.51	118.42	1,233.28	4,454.48	631.75	511.09	120.66	5.236		
9,000.00	7,232.02	7,267.55	7,149.68	108.85	30.72	122.49	1,232.89	4,454.74	671.99	554.19	117.80	5.705		
9,104.68	7,311.55	7,347.65	7,229.78	110.33	30.94	126.41	1,232.59	4,454.91	717.93	603.09	114.84	6.252		
9,150.00	7,346.29	7,382.27	7,264.40	110.97	31.03	122.05	1,232.49	4,454.94	737.38	623.85	113.53	6.495		
9,200.00	7,385.15	7,420.97	7,303.10	111.65	31.14	116.98	1,232.37	4,454.93	756.05	644.08	111.97	6.752		
9,250.00	7,424.29	7,459.90	7,342.03	112.31	31.25	111.83	1,232.27	4,454.89	771.81	661.53	110.28	6.999		
9,300.00	7,463.40	7,498.77	7,380.90	112.93	31.36	106.79	1,232.17	4,454.82	784.70	676.26	108.44	7.236		
9,350.00	7,502.19	7,537.07	7,419.20	113.51	31.47	102.05	1,232.08	4,454.73	794.81	688.36	106.45	7.467		
9,400.00	7,540.36	7,574.60	7,456.73	114.04	31.58	97.77	1,231.96	4,454.63	802.23	697.94	104.29	7.692		
9,450.00	7,577.62	7,611.37	7,493.49	114.53	31.68	94.08	1,231.81	4,454.53	807.09	705.13	101.96	7.916		
9,500.00	7,613.70	7,649.41	7,531.54	114.95	31.79	91.15	1,231.65	4,454.49	809.49	709.98	99.51	8.135		
9,550.00	7,648.30	7,686.06	7,568.19	115.32	31.89	88.88	1,231.53	4,454.55	809.54	712.64	96.90	8.355		
9,600.00	7,681.18	7,720.30	7,602.43	115.63	31.98	87.21	1,231.43	4,454.70	807.46	713.35	94.11	8.580		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,650.00	7,712.08	7,751.92	7,634.05	115.88	32.07	86.08	1,231.32	4,454.90	803.52	712.36	91.16	8.814		
9,700.00	7,740.76	7,781.41	7,663.54	116.08	32.15	85.47	1,231.20	4,455.12	797.98	709.86	88.11	9.056		
9,750.00	7,767.01	7,808.11	7,690.23	116.23	32.22	85.29	1,231.06	4,455.36	791.09	706.10	84.99	9.308		
9,800.00	7,790.63	7,831.57	7,713.70	116.33	32.29	85.43	1,230.94	4,455.56	783.17	701.29	81.88	9.565		
9,850.00	7,811.44	7,852.28	7,734.40	116.38	32.35	85.85	1,230.83	4,455.72	774.48	695.60	78.89	9.818		
9,900.00	7,829.28	7,870.07	7,752.19	116.38	32.39	86.49	1,230.73	4,455.86	765.32	689.14	76.18	10.046		
9,950.00	7,844.01	7,884.81	7,766.93	116.35	32.43	87.25	1,230.65	4,455.96	755.94	682.00	73.94	10.223		
10,000.00	7,855.52	7,896.54	7,778.66	116.28	32.47	88.08	1,230.58	4,456.03	746.60	674.20	72.40	10.313		
10,050.00	7,863.72	7,905.14	7,787.26	116.18	32.49	88.92	1,230.53	4,456.09	737.52	665.80	71.73	10.282		
10,100.00	7,868.56	7,910.35	7,792.47	116.06	32.50	89.70	1,230.49	4,456.13	728.91	656.85	72.06	10.115		
10,145.94	7,870.00	7,912.11	7,794.23	115.92	32.51	90.34	1,230.48	4,456.14	721.54	648.25	73.28	9.846		
10,200.00	7,870.00	7,912.47	7,794.59	115.76	32.51	90.37	1,230.48	4,456.14	715.20	639.44	75.76	9.441		
10,257.16	7,870.00	7,912.84	7,794.96	115.59	32.51	90.40	1,230.48	4,456.15	712.91	633.52	79.39	8.980		
10,300.00	7,870.00	7,913.13	7,795.25	115.46	32.51	90.42	1,230.48	4,456.15	714.20	631.60	82.60	8.647		
10,400.00	7,870.00	7,913.79	7,795.91	115.18	32.51	90.47	1,230.47	4,456.15	727.08	636.14	90.94	7.995		
10,500.00	7,870.00	7,914.46	7,796.58	114.91	32.52	90.53	1,230.47	4,456.16	753.13	653.76	99.37	7.579		
10,600.00	7,870.00	7,915.13	7,797.25	114.65	32.52	90.58	1,230.46	4,456.16	791.06	684.01	107.05	7.390		
10,700.00	7,870.00	7,915.81	7,797.93	114.41	32.52	90.64	1,230.46	4,456.17	839.25	725.65	113.60	7.388		
10,800.00	7,870.00	7,916.49	7,798.61	114.17	32.52	90.69	1,230.45	4,456.17	896.05	777.08	118.97	7.532		
10,900.00	7,870.00	7,917.18	7,799.30	113.95	32.52	90.75	1,230.45	4,456.18	959.93	836.68	123.25	7.788		
11,000.00	7,870.00	7,917.87	7,799.99	113.75	32.53	90.80	1,230.44	4,456.18	1,029.58	902.94	126.63	8.130		
11,100.00	7,870.00	7,918.57	7,800.69	113.55	32.53	90.86	1,230.44	4,456.19	1,103.90	974.62	129.28	8.539		
11,200.00	7,870.00	7,919.27	7,801.39	113.37	32.53	90.92	1,230.44	4,456.19	1,182.01	1,050.66	131.35	8.999		
11,300.00	7,870.00	7,919.98	7,802.09	113.20	32.53	90.97	1,230.43	4,456.20	1,263.21	1,130.25	132.96	9.501		
11,400.00	7,870.00	7,920.69	7,802.81	113.04	32.53	91.03	1,230.43	4,456.20	1,346.95	1,212.72	134.23	10.035		
11,500.00	7,870.00	7,921.40	7,803.52	112.89	32.54	91.09	1,230.42	4,456.21	1,432.77	1,297.54	135.22	10.596		
11,600.00	7,870.00	7,922.13	7,804.24	112.76	32.54	91.14	1,230.42	4,456.21	1,520.32	1,384.31	136.01	11.178		
11,700.00	7,870.00	7,922.85	7,804.97	112.64	32.54	91.20	1,230.41	4,456.22	1,609.33	1,472.70	136.62	11.779		
11,800.00	7,870.00	7,923.59	7,805.70	112.53	32.54	91.26	1,230.41	4,456.22	1,699.55	1,562.44	137.12	12.395		
11,900.00	7,870.00	7,924.32	7,806.44	112.44	32.54	91.32	1,230.40	4,456.23	1,790.82	1,653.31	137.51	13.024		
12,000.00	7,870.00	7,925.07	7,807.18	112.36	32.55	91.38	1,230.40	4,456.23	1,882.97	1,745.16	137.82	13.663		
12,100.00	7,870.00	7,925.81	7,807.93	112.29	32.55	91.44	1,230.39	4,456.24	1,975.89	1,837.83	138.06	14.312		
12,200.00	7,870.00	7,926.57	7,808.69	112.24	32.55	91.50	1,230.39	4,456.24	2,069.47	1,931.21	138.26	14.968		
12,300.00	7,870.00	7,927.33	7,809.44	112.20	32.55	91.56	1,230.38	4,456.25	2,163.62	2,025.20	138.41	15.632		
12,400.00	7,870.00	7,928.09	7,810.21	112.17	32.55	91.62	1,230.37	4,456.25	2,258.27	2,119.74	138.53	16.301		
12,500.00	7,870.00	7,928.86	7,810.98	112.16	32.56	91.69	1,230.37	4,456.26	2,353.37	2,214.74	138.63	16.976		
12,600.00	7,870.00	7,929.64	7,811.76	112.17	32.56	91.75	1,230.36	4,456.26	2,448.85	2,310.15	138.70	17.655		
12,700.00	7,870.00	7,930.42	7,812.54	112.19	32.56	91.81	1,230.36	4,456.27	2,544.68	2,405.93	138.76	18.339		
12,800.00	7,870.00	7,931.21	7,813.33	112.23	32.56	91.87	1,230.35	4,456.28	2,640.83	2,502.03	138.80	19.026		
12,900.00	7,870.00	7,932.00	7,814.12	112.28	32.56	91.94	1,230.35	4,456.28	2,737.24	2,598.41	138.83	19.717		
13,000.00	7,870.00	7,932.80	7,814.92	112.36	32.57	92.00	1,230.34	4,456.29	2,833.91	2,695.06	138.85	20.410		
13,100.00	7,870.00	7,933.61	7,815.72	112.45	32.57	92.07	1,230.34	4,456.29	2,930.80	2,791.94	138.86	21.106		
13,200.00	7,870.00	7,934.42	7,816.54	112.56	32.57	92.13	1,230.33	4,456.30	3,027.89	2,889.02	138.87	21.804		
13,300.00	7,870.00	7,935.24	7,817.35	112.68	32.57	92.20	1,230.32	4,456.31	3,125.17	2,986.30	138.87	22.505		
13,400.00	7,870.00	7,936.06	7,818.18	112.83	32.58	92.26	1,230.32	4,456.31	3,222.61	3,083.74	138.86	23.207		
13,500.00	7,870.00	7,936.89	7,819.01	113.00	32.58	92.33	1,230.31	4,456.32	3,320.20	3,181.34	138.86	23.911		
13,600.00	7,870.00	7,937.73	7,819.85	113.19	32.58	92.40	1,230.31	4,456.32	3,417.93	3,279.09	138.85	24.617		
13,700.00	7,870.00	7,938.57	7,820.69	113.40	32.58	92.47	1,230.30	4,456.33	3,515.79	3,376.96	138.83	25.324		
13,800.00	7,870.00	7,939.42	7,821.54	113.63	32.58	92.53	1,230.29	4,456.34	3,613.77	3,474.95	138.82	26.032		
13,900.00	7,870.00	7,940.28	7,822.40	113.89	32.59	92.60	1,230.29	4,456.34	3,711.85	3,573.05	138.81	26.741		
14,000.00	7,870.00	7,941.14	7,823.26	114.18	32.59	92.67	1,230.28	4,456.35	3,810.04	3,671.25	138.79	27.452		
14,100.00	7,870.00	7,942.01	7,824.13	114.48	32.59	92.74	1,230.27	4,456.36	3,908.31	3,769.54	138.77	28.164		

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

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 31-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 109-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,870.00	7,942.89	7,825.01	114.82	32.59	92.81	1,230.27	4,456.36	4,006.67	3,867.92	138.75	28.876		
14,300.00	7,870.00	7,943.77	7,825.89	115.18	32.60	92.88	1,230.26	4,456.37	4,105.11	3,966.38	138.74	29.589		
14,400.00	7,870.00	7,944.66	7,826.78	115.57	32.60	92.95	1,230.25	4,456.38	4,203.63	4,064.91	138.72	30.303		
14,500.00	7,870.00	7,945.56	7,827.68	115.99	32.60	93.03	1,230.25	4,456.38	4,302.21	4,163.51	138.70	31.018		
14,600.00	7,870.00	7,946.47	7,828.58	116.44	32.60	93.10	1,230.24	4,456.39	4,400.86	4,262.17	138.68	31.733		
14,700.00	7,870.00	7,947.38	7,829.50	116.92	32.61	93.17	1,230.23	4,456.40	4,499.56	4,360.90	138.66	32.449		
14,800.00	7,870.00	7,948.30	7,830.42	117.44	32.61	93.25	1,230.23	4,456.40	4,598.32	4,459.67	138.65	33.166		
14,900.00	7,870.00	7,949.23	7,831.34	117.98	32.61	93.32	1,230.22	4,456.41	4,697.14	4,558.50	138.63	33.882		
15,000.00	7,870.00	7,950.16	7,832.28	118.56	32.61	93.40	1,230.21	4,456.42	4,796.00	4,657.38	138.61	34.600		
15,100.00	7,870.00	7,951.11	7,833.22	119.17	32.62	93.47	1,230.20	4,456.42	4,894.91	4,756.31	138.60	35.317		
15,200.00	7,870.00	7,952.06	7,834.17	119.81	32.62	93.55	1,230.20	4,456.43	4,993.86	4,855.28	138.58	36.035		
15,300.00	7,870.00	7,953.01	7,835.13	120.48	32.62	93.62	1,230.19	4,456.44	5,092.85	4,954.28	138.57	36.754		
15,400.00	7,870.00	7,953.98	7,836.10	121.19	32.62	93.70	1,230.18	4,456.45	5,191.88	5,053.33	138.55	37.472		
15,500.00	7,870.00	7,954.95	7,837.07	121.93	32.63	93.78	1,230.17	4,456.45	5,290.95	5,152.41	138.54	38.191		
15,600.00	7,870.00	7,955.94	7,838.05	122.71	32.63	93.86	1,230.17	4,456.46	5,390.05	5,251.53	138.53	38.910		
15,700.00	7,870.00	7,956.93	7,839.04	123.52	32.63	93.94	1,230.16	4,456.47	5,489.19	5,350.67	138.51	39.629		
15,800.00	7,870.00	7,957.93	7,840.04	124.36	32.64	94.02	1,230.15	4,456.48	5,588.35	5,449.85	138.50	40.349		
15,900.00	7,870.00	7,958.93	7,841.05	125.23	32.64	94.10	1,230.14	4,456.49	5,687.54	5,549.05	138.49	41.068		
16,000.00	7,870.00	7,959.95	7,842.06	126.14	32.64	94.18	1,230.13	4,456.49	5,786.77	5,648.29	138.48	41.788		
16,100.00	7,870.00	7,960.97	7,843.09	127.07	32.64	94.26	1,230.12	4,456.50	5,886.01	5,747.54	138.47	42.508		
16,200.00	7,870.00	7,962.01	7,844.12	128.04	32.65	94.34	1,230.12	4,456.51	5,985.29	5,846.83	138.46	43.228		
16,300.00	7,870.00	7,963.05	7,845.16	129.04	32.65	94.43	1,230.11	4,456.52	6,084.58	5,946.13	138.45	43.948		
16,400.00	7,870.00	7,964.10	7,846.22	130.06	32.65	94.51	1,230.10	4,456.53	6,183.90	6,045.46	138.44	44.667		
16,500.00	7,870.00	7,965.16	7,847.28	131.11	32.66	94.60	1,230.09	4,456.53	6,283.24	6,144.81	138.44	45.387		
16,600.00	7,870.00	7,966.23	7,848.35	132.19	32.66	94.68	1,230.08	4,456.54	6,382.60	6,244.17	138.43	46.107		
16,700.00	7,870.00	7,967.31	7,849.42	133.29	32.66	94.77	1,230.07	4,456.55	6,481.98	6,343.56	138.42	46.827		
16,800.00	7,870.00	7,968.40	7,850.51	134.42	32.66	94.85	1,230.06	4,456.56	6,581.38	6,442.96	138.42	47.547		
16,900.00	7,870.00	7,969.49	7,851.61	135.57	32.67	94.94	1,230.05	4,456.57	6,680.80	6,542.39	138.41	48.267		
17,000.00	7,870.00	7,970.60	7,852.72	136.75	32.67	95.03	1,230.04	4,456.58	6,780.23	6,641.82	138.41	48.987		
17,100.00	7,870.00	7,971.72	7,853.83	137.94	32.67	95.12	1,230.04	4,456.59	6,879.68	6,741.28	138.41	49.707		
17,200.00	7,870.00	7,972.85	7,854.96	139.16	32.68	95.21	1,230.03	4,456.60	6,979.15	6,840.75	138.40	50.427		
17,300.00	7,870.00	7,973.98	7,856.10	140.39	32.68	95.30	1,230.02	4,456.60	7,078.63	6,940.23	138.40	51.146		
17,400.00	7,870.00	7,975.13	7,857.25	141.65	32.68	95.39	1,230.01	4,456.61	7,178.12	7,039.73	138.40	51.866		
17,500.00	7,870.00	7,976.29	7,858.41	142.92	32.69	95.48	1,230.00	4,456.62	7,277.63	7,139.24	138.40	52.585		
17,600.00	7,870.00	7,977.46	7,859.57	144.21	32.69	95.58	1,229.99	4,456.63	7,377.15	7,238.76	138.40	53.304		
17,700.00	7,870.00	7,978.64	7,860.75	145.52	32.69	95.67	1,229.98	4,456.64	7,476.69	7,338.29	138.40	54.023		
17,800.00	7,870.00	7,979.83	7,861.94	146.84	32.70	95.77	1,229.96	4,456.65	7,576.24	7,437.84	138.40	54.742		
17,900.00	7,870.00	7,981.03	7,863.15	148.18	32.70	95.86	1,229.95	4,456.66	7,675.79	7,537.39	138.40	55.461		
18,000.00	7,870.00	7,982.24	7,864.36	149.54	32.70	95.96	1,229.94	4,456.67	7,775.36	7,636.96	138.40	56.180		
18,100.00	7,870.00	7,983.47	7,865.58	150.90	32.71	96.06	1,229.93	4,456.68	7,874.94	7,736.54	138.40	56.898		
18,200.00	7,870.00	7,984.70	7,866.82	152.28	32.71	96.15	1,229.92	4,456.69	7,974.53	7,836.13	138.41	57.617		
18,300.00	7,870.00	7,985.95	7,868.06	153.67	32.71	96.25	1,229.91	4,456.70	8,074.13	7,935.72	138.41	58.335		
18,400.00	7,870.00	7,987.21	7,869.32	155.07	32.72	96.35	1,229.90	4,456.71	8,173.74	8,035.33	138.41	59.052		
18,500.00	7,870.00	7,988.48	7,870.59	156.49	32.72	96.46	1,229.89	4,456.72	8,273.36	8,134.94	138.42	59.770		
18,600.00	7,870.00	7,989.76	7,871.87	157.91	32.72	96.56	1,229.88	4,456.73	8,372.99	8,234.57	138.42	60.488		
18,700.00	7,870.00	7,991.06	7,873.17	159.35	32.73	96.66	1,229.86	4,456.75	8,472.63	8,334.20	138.43	61.205		
18,800.00	7,870.00	7,992.36	7,874.48	160.79	32.73	96.76	1,229.85	4,456.76	8,572.27	8,433.84	138.44	61.922		
18,900.00	7,870.00	7,993.68	7,875.80	162.25	32.73	96.87	1,229.84	4,456.77	8,671.93	8,533.48	138.44	62.639		
19,000.00	7,870.00	7,995.02	7,877.13	163.71	32.74	96.97	1,229.83	4,456.78	8,771.59	8,633.14	138.45	63.355		
19,100.00	7,870.00	7,996.36	7,878.48	165.18	32.74	97.08	1,229.82	4,456.79	8,871.26	8,732.80	138.46	64.071		
19,200.00	7,870.00	7,997.72	7,879.83	166.66	32.75	97.19	1,229.80	4,456.80	8,970.93	8,832.47	138.47	64.787		
19,300.00	7,870.00	7,999.09	7,881.21	168.15	32.75	97.30	1,229.79	4,456.81	9,070.62	8,932.14	138.48	65.503		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,400.00	7,870.00	8,000.48	7,882.59	169.65	32.75	97.41	1,229.78	4,456.83	9,170.31	9,031.82	138.49	66.218	
19,500.00	7,870.00	8,001.88	7,883.99	171.15	32.76	97.52	1,229.76	4,456.84	9,270.00	9,131.51	138.50	66.933	
19,600.00	7,870.00	8,003.29	7,885.41	172.66	32.76	97.63	1,229.75	4,456.85	9,369.70	9,231.20	138.51	67.648	
19,700.00	7,870.00	7,994.12	7,876.24	174.18	32.74	96.90	1,229.84	4,456.77	9,469.42	9,330.92	138.50	68.371	
19,800.00	7,870.00	7,994.71	7,876.83	175.70	32.74	96.95	1,229.83	4,456.77	9,569.14	9,430.62	138.51	69.086	
19,889.26	7,870.00	7,995.23	7,877.35	177.06	32.74	96.99	1,229.83	4,456.78	9,658.14	9,519.62	138.52	69.724	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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	82.00	751.01	5,342.85	5,395.97					
100.00	100.00	37.91	37.91	0.13	0.06	82.00	750.99	5,342.79	5,395.34	5,395.15	0.19	N/A		
200.00	200.00	157.58	157.58	0.49	0.40	82.00	750.83	5,342.05	5,394.68	5,393.79	0.89	6,039.808		
300.00	300.00	248.75	248.74	0.85	0.73	82.00	750.81	5,341.47	5,394.06	5,392.48	1.58	3,418.337		
400.00	399.98	355.09	355.08	1.21	1.11	13.87	750.92	5,340.84	5,391.79	5,389.48	2.31	2,330.585		
500.00	499.84	416.62	416.61	1.56	1.32	13.91	750.32	5,340.75	5,386.43	5,383.55	2.88	1,867.860		
600.00	599.45	481.61	481.57	1.93	1.55	13.98	748.28	5,341.30	5,378.36	5,374.89	3.47	1,550.356		
700.00	698.70	534.00	533.87	2.32	1.73	14.08	745.56	5,342.18	5,367.56	5,363.55	4.01	1,337.500		
800.00	797.47	591.36	591.06	2.72	1.94	14.22	741.47	5,343.76	5,354.23	5,349.64	4.59	1,167.729		
900.00	895.62	648.56	647.98	3.16	2.14	14.39	736.22	5,346.13	5,338.49	5,333.33	5.17	1,033.429		
1,000.00	993.06	716.00	714.86	3.63	2.39	14.61	728.24	5,349.40	5,319.94	5,314.15	5.80	917.720		
1,100.00	1,089.64	762.72	761.03	4.14	2.58	14.83	721.65	5,352.15	5,298.89	5,292.52	6.37	832.116		
1,200.00	1,185.27	809.00	806.60	4.70	2.77	15.08	714.36	5,355.54	5,275.65	5,268.70	6.95	759.412		
1,300.00	1,279.82	850.14	847.00	5.31	2.94	15.34	707.39	5,359.00	5,250.14	5,242.62	7.53	697.685		
1,400.00	1,373.17	902.00	897.80	5.97	3.17	15.66	698.13	5,363.82	5,222.29	5,214.13	8.16	639.966		
1,500.00	1,465.21	955.28	949.86	6.69	3.41	16.02	688.16	5,369.21	5,192.06	5,183.23	8.83	588.288		
1,600.00	1,555.84	1,011.46	1,004.62	7.47	3.67	16.42	677.20	5,375.31	5,159.41	5,149.89	9.52	541.851		
1,700.00	1,644.94	1,077.00	1,068.21	8.31	3.99	16.91	663.28	5,382.94	5,124.35	5,114.06	10.29	498.130		
1,800.00	1,732.39	1,163.77	1,152.10	9.23	4.43	17.55	643.72	5,393.36	5,086.63	5,075.44	11.19	454.642		
1,900.00	1,818.11	1,266.42	1,251.73	10.21	4.96	18.30	621.94	5,405.04	5,045.61	5,033.43	12.19	414.046		
2,000.00	1,901.97	1,314.87	1,298.80	11.26	5.21	18.84	611.97	5,410.70	5,002.15	4,989.22	12.93	386.810		
2,100.00	1,983.88	1,377.21	1,359.26	12.38	5.54	19.50	598.88	5,418.40	4,956.49	4,942.71	13.77	359.890		
2,200.00	2,063.74	1,449.41	1,429.06	13.57	5.93	20.28	582.82	5,427.47	4,908.32	4,893.63	14.69	334.074		
2,300.00	2,141.45	1,511.80	1,489.17	14.84	6.27	21.08	568.13	5,435.49	4,857.79	4,842.19	15.60	311.477		
2,327.78	2,162.65	1,530.40	1,507.04	15.21	6.38	21.32	563.60	5,437.93	4,843.35	4,827.49	15.86	305.350		
2,400.00	2,217.51	1,600.58	1,574.52	16.17	6.77	21.79	546.55	5,446.99	4,805.58	4,788.91	16.67	288.245		
2,500.00	2,293.49	1,714.10	1,683.99	17.51	7.41	22.54	520.00	5,461.02	4,753.17	4,735.27	17.89	265.650		
2,600.00	2,369.47	1,767.37	1,735.52	18.86	7.71	22.90	508.13	5,467.49	4,700.94	4,682.14	18.81	249.971		
2,700.00	2,445.45	1,831.92	1,797.95	20.22	8.06	23.33	493.91	5,475.61	4,649.38	4,629.58	19.80	234.823		
2,800.00	2,521.42	1,930.06	1,892.93	21.59	8.60	24.00	472.42	5,487.80	4,598.07	4,577.08	20.99	219.069		
2,900.00	2,597.40	2,022.94	1,983.07	22.97	9.11	24.63	452.91	5,498.76	4,546.59	4,524.43	22.17	205.109		
3,000.00	2,673.38	2,083.07	2,041.37	24.34	9.44	25.05	440.00	5,505.93	4,495.60	4,472.41	23.20	193.809		
3,100.00	2,749.36	2,185.23	2,140.13	25.73	10.01	25.80	416.85	5,517.96	4,444.92	4,420.44	24.48	181.548		
3,200.00	2,825.33	2,282.32	2,233.82	27.11	10.56	26.54	393.81	5,528.81	4,394.22	4,368.44	25.78	170.451		
3,300.00	2,901.31	2,384.44	2,332.65	28.50	11.13	27.32	370.51	5,539.71	4,343.55	4,316.44	27.12	160.187		
3,400.00	2,977.29	2,490.16	2,435.56	29.90	11.70	28.12	348.71	5,550.26	4,292.66	4,264.19	28.47	150.797		
3,500.00	3,053.27	2,554.00	2,497.69	31.29	12.04	28.62	335.46	5,556.49	4,242.07	4,212.45	29.62	143.204		
3,600.00	3,129.24	2,594.49	2,537.03	32.69	12.26	28.94	326.80	5,560.64	4,192.35	4,161.67	30.69	136.623		
3,700.00	3,205.22	2,648.00	2,588.90	34.08	12.55	29.37	315.17	5,566.73	4,143.86	4,112.02	31.84	130.147		
3,800.00	3,281.20	2,768.77	2,706.02	35.48	13.22	30.36	288.77	5,579.86	4,095.66	4,062.27	33.39	122.661		
3,900.00	3,357.18	2,847.13	2,782.03	36.88	13.65	31.02	271.46	5,587.73	4,047.27	4,012.53	34.74	116.518		
4,000.00	3,433.15	2,906.07	2,839.11	38.29	13.98	31.54	258.00	5,593.70	3,999.54	3,963.53	36.01	111.076		
4,100.00	3,509.13	2,981.80	2,912.34	39.69	14.40	32.21	240.36	5,601.48	3,952.53	3,915.13	37.40	105.675		
4,200.00	3,585.11	3,045.21	2,973.75	41.09	14.76	32.78	225.97	5,607.98	3,906.05	3,867.30	38.75	100.798		
4,300.00	3,661.08	3,089.75	3,016.82	42.50	15.01	33.18	215.72	5,612.82	3,860.66	3,820.64	40.01	96.485		
4,400.00	3,737.06	3,146.25	3,071.37	43.90	15.33	33.70	202.54	5,619.36	3,816.42	3,775.05	41.37	92.249		
4,500.00	3,813.04	3,228.25	3,150.66	45.31	15.80	34.46	183.97	5,629.05	3,772.96	3,730.05	42.91	87.935		
4,600.00	3,889.02	3,341.79	3,260.84	46.71	16.42	35.52	159.75	5,641.80	3,729.45	3,684.81	44.65	83.535		
4,700.00	3,964.99	3,417.45	3,334.16	48.12	16.84	36.25	142.85	5,649.82	3,686.35	3,640.16	46.20	79.795		
4,800.00	4,040.97	3,484.50	3,399.03	49.53	17.22	36.91	127.50	5,656.92	3,644.06	3,596.33	47.73	76.340		
4,900.00	4,116.95	3,536.11	3,448.94	50.94	17.51	37.42	115.61	5,662.58	3,602.81	3,553.61	49.20	73.228		
5,000.00	4,192.93	3,589.10	3,500.12	52.35	17.81	37.96	103.36	5,668.75	3,562.83	3,512.13	50.70	70.277		

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

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 42-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 79-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,268.90	3,714.12	3,621.43	53.76	18.50	39.21	76.88	5,683.29	3,523.19	3,470.53	52.66	66.899		
5,200.00	4,344.88	3,801.01	3,706.19	55.16	18.96	40.06	60.52	5,693.23	3,483.71	3,429.32	54.39	64.050		
5,300.00	4,420.86	3,872.19	3,775.58	56.57	19.33	40.78	46.91	5,701.30	3,444.99	3,388.94	56.05	61.461		
5,400.00	4,496.84	3,937.86	3,839.54	57.98	19.68	41.45	34.09	5,708.82	3,407.24	3,349.52	57.71	59.037		
5,500.00	4,572.81	3,995.54	3,895.70	59.39	19.99	42.05	22.78	5,715.64	3,370.60	3,311.25	59.35	56.792		
5,600.00	4,648.79	4,054.00	3,952.55	60.81	20.31	42.66	11.30	5,722.97	3,335.32	3,274.30	61.01	54.665		
5,700.00	4,724.77	4,140.64	4,036.78	62.22	20.77	43.58	-5.81	5,733.90	3,301.03	3,238.13	62.90	52.484		
5,800.00	4,800.74	4,209.72	4,103.96	63.63	21.14	44.33	-19.34	5,742.54	3,267.50	3,202.82	64.68	50.515		
5,900.00	4,876.72	4,381.63	4,271.86	65.04	22.03	46.17	-49.79	5,763.33	3,234.21	3,167.06	67.14	48.169		
6,000.00	4,952.70	4,464.71	4,353.42	66.45	22.44	47.07	-62.87	5,772.27	3,200.05	3,131.00	69.05	46.345		
6,100.00	5,028.68	4,523.00	4,410.43	67.86	22.73	47.72	-73.37	5,778.31	3,167.26	3,096.41	70.85	44.705		
6,200.00	5,104.65	4,650.29	4,534.90	69.27	23.38	49.20	-97.00	5,790.56	3,135.24	3,062.09	73.15	42.860		
6,300.00	5,180.63	4,835.29	4,716.73	70.69	24.26	51.39	-128.41	5,803.65	3,101.61	3,025.81	75.80	40.916		
6,400.00	5,256.61	4,909.97	4,790.51	72.10	24.59	52.25	-138.60	5,809.04	3,068.28	2,990.50	77.77	39.451		
6,500.00	5,332.59	5,328.02	5,206.27	73.51	26.14	57.16	-175.34	5,825.39	3,033.58	2,952.65	80.93	37.484		
6,600.00	5,408.56	5,417.05	5,295.17	74.92	26.40	58.26	-179.96	5,824.03	2,993.31	2,910.38	82.93	36.093		
6,700.00	5,484.54	5,539.42	5,417.47	76.34	26.73	59.76	-183.66	5,822.78	2,953.70	2,868.74	84.96	34.765		
6,800.00	5,560.52	5,622.18	5,500.22	77.75	26.92	60.75	-183.42	5,822.28	2,913.92	2,827.00	86.92	33.525		
6,900.00	5,636.50	5,712.82	5,590.86	79.16	27.13	61.86	-182.90	5,821.68	2,874.92	2,786.02	88.90	32.340		
7,000.00	5,712.47	5,794.03	5,672.06	80.57	27.31	62.88	-182.27	5,820.77	2,836.51	2,745.60	90.91	31.202		
7,100.00	5,788.45	5,866.29	5,744.32	81.99	27.48	63.80	-181.73	5,819.94	2,799.11	2,706.16	92.95	30.113		
7,200.00	5,864.43	5,936.23	5,814.25	83.40	27.64	64.71	-181.49	5,819.11	2,762.92	2,667.89	95.03	29.073		
7,300.00	5,940.40	6,013.49	5,891.50	84.81	27.82	65.73	-181.30	5,818.19	2,727.87	2,630.73	97.14	28.081		
7,400.00	6,016.38	6,105.30	5,983.30	86.23	28.04	66.97	-180.89	5,816.85	2,693.73	2,594.45	99.28	27.134		
7,500.00	6,092.36	6,184.20	6,062.19	87.64	28.23	68.06	-180.32	5,815.46	2,660.47	2,559.04	101.43	26.229		
7,600.00	6,168.34	6,262.88	6,140.86	89.05	28.41	69.15	-179.53	5,814.14	2,628.36	2,524.76	103.60	25.370		
7,700.00	6,244.31	6,338.28	6,216.23	90.47	28.59	70.22	-178.69	5,812.84	2,597.44	2,491.65	105.79	24.553		
7,800.00	6,320.29	6,404.95	6,282.90	91.88	28.75	71.17	-177.83	5,811.89	2,567.93	2,459.94	107.99	23.779		
7,900.00	6,396.27	6,453.88	6,331.82	93.30	28.88	71.87	-177.33	5,811.59	2,540.36	2,430.16	110.19	23.054		
8,000.00	6,472.25	6,510.61	6,388.55	94.71	29.02	72.68	-177.06	5,811.79	2,514.93	2,402.53	112.40	22.375		
8,100.00	6,548.22	6,581.91	6,459.85	96.12	29.22	73.73	-177.03	5,812.07	2,491.23	2,376.61	114.62	21.735		
8,200.00	6,624.20	6,660.46	6,538.40	97.54	29.44	74.89	-177.23	5,812.18	2,469.03	2,352.18	116.85	21.130		
8,300.00	6,700.18	6,747.10	6,625.04	98.95	29.68	76.20	-177.47	5,811.95	2,448.19	2,329.10	119.09	20.558		
8,400.00	6,776.16	6,821.84	6,699.78	100.37	29.88	77.34	-177.58	5,811.54	2,428.70	2,307.40	121.29	20.023		
8,500.00	6,852.13	6,890.86	6,768.80	101.78	30.07	78.40	-177.66	5,811.41	2,410.97	2,287.50	123.47	19.526		
8,600.00	6,928.11	6,957.75	6,835.68	103.20	30.26	79.43	-177.88	5,811.48	2,395.16	2,269.53	125.63	19.065		
8,700.00	7,004.09	7,034.04	6,911.97	104.61	30.48	80.61	-178.24	5,811.64	2,381.15	2,253.38	127.77	18.636		
8,800.00	7,080.06	7,113.38	6,991.32	106.02	30.71	81.86	-178.63	5,811.70	2,368.80	2,238.92	129.88	18.238		
8,900.00	7,156.04	7,187.34	7,065.28	107.44	30.93	83.02	-179.01	5,811.59	2,358.11	2,226.17	131.94	17.872		
9,000.00	7,232.02	7,260.95	7,138.88	108.85	31.14	84.19	-179.50	5,811.57	2,349.33	2,215.37	133.96	17.538		
9,104.68	7,311.55	7,343.21	7,221.14	110.33	31.38	85.50	-180.03	5,811.40	2,341.97	2,205.94	136.02	17.217		
9,150.00	7,346.29	7,375.93	7,253.86	110.97	31.48	86.63	-180.27	5,811.29	2,337.73	2,200.85	136.88	17.078		
9,200.00	7,385.15	7,412.54	7,290.47	111.65	31.59	74.80	-180.56	5,811.17	2,329.65	2,191.86	137.79	16.907		
9,250.00	7,424.29	7,449.43	7,327.36	112.31	31.70	68.65	-180.90	5,811.05	2,317.99	2,179.33	138.66	16.718		
9,300.00	7,463.40	7,486.34	7,364.26	112.93	31.80	62.37	-181.28	5,810.92	2,302.78	2,163.31	139.46	16.512		
9,350.00	7,502.19	7,522.98	7,400.90	113.51	31.91	56.14	-181.70	5,810.78	2,284.08	2,143.86	140.22	16.290		
9,400.00	7,540.36	7,554.56	7,432.48	114.04	32.01	50.02	-182.12	5,810.68	2,262.00	2,121.10	140.90	16.054		
9,450.00	7,577.62	7,586.25	7,464.17	114.53	32.11	44.18	-182.63	5,810.59	2,236.67	2,095.15	141.52	15.805		
9,500.00	7,613.70	7,620.82	7,498.73	114.95	32.21	38.68	-183.26	5,810.52	2,208.20	2,066.13	142.08	15.542		
9,550.00	7,648.30	7,664.09	7,542.00	115.32	32.34	33.55	-183.93	5,810.49	2,176.60	2,034.00	142.60	15.263		
9,600.00	7,681.18	7,705.10	7,583.01	115.63	32.47	28.54	-184.37	5,810.53	2,141.99	1,998.94	143.05	14.973		
9,650.00	7,712.08	7,734.81	7,612.71	115.88	32.56	23.36	-184.63	5,810.59	2,104.68	1,961.27	143.41	14.676		

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

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 42-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 79-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,700.00	7,740.76	7,762.71	7,640.61	116.08	32.65	17.91	-184.88	5,810.67	2,064.97	1,921.27	143.70	14.370		
9,750.00	7,767.01	7,788.35	7,666.25	116.23	32.72	11.89	-185.12	5,810.77	2,023.13	1,879.21	143.92	14.057		
9,800.00	7,790.63	7,813.80	7,691.70	116.33	32.80	4.83	-185.35	5,810.87	1,979.43	1,835.35	144.08	13.738		
9,850.00	7,811.44	7,837.64	7,715.53	116.38	32.87	-3.95	-185.55	5,810.95	1,934.17	1,790.00	144.18	13.415		
9,900.00	7,829.28	7,858.02	7,735.91	116.38	32.94	-15.31	-185.69	5,811.01	1,887.70	1,743.50	144.20	13.091		
9,950.00	7,844.01	7,874.83	7,752.72	116.35	32.99	-29.91	-185.80	5,811.05	1,840.39	1,696.24	144.15	12.767		
10,000.00	7,855.52	7,887.96	7,765.85	116.28	33.03	-47.20	-185.87	5,811.07	1,792.64	1,648.61	144.03	12.446		
10,050.00	7,863.72	7,897.35	7,775.24	116.18	33.06	-64.60	-185.92	5,811.09	1,744.88	1,601.04	143.84	12.131		
10,100.00	7,868.56	7,902.96	7,780.86	116.06	33.07	-79.25	-185.94	5,811.09	1,697.52	1,553.95	143.57	11.823		
10,145.94	7,870.00	7,904.78	7,782.67	115.92	33.08	-89.35	-185.95	5,811.10	1,654.76	1,511.50	143.26	11.551		
10,200.00	7,870.00	7,905.04	7,782.93	115.76	33.08	-89.37	-185.95	5,811.10	1,605.14	1,462.31	142.83	11.238		
10,300.00	7,870.00	7,905.51	7,783.40	115.46	33.08	-89.42	-185.95	5,811.10	1,514.15	1,372.23	141.93	10.669		
10,400.00	7,870.00	7,903.73	7,781.63	115.18	33.08	-89.26	-185.95	5,811.10	1,424.39	1,283.56	140.83	10.114		
10,500.00	7,870.00	7,904.25	7,782.15	114.91	33.08	-89.30	-185.96	5,811.10	1,336.07	1,196.55	139.51	9.577		
10,600.00	7,870.00	7,904.78	7,782.67	114.65	33.08	-89.35	-185.96	5,811.10	1,249.51	1,111.60	137.90	9.061		
10,700.00	7,870.00	7,905.31	7,783.20	114.41	33.08	-89.40	-185.96	5,811.10	1,165.10	1,029.18	135.92	8.572		
10,800.00	7,870.00	7,905.84	7,783.73	114.17	33.08	-89.44	-185.97	5,811.10	1,083.35	949.89	133.46	8.117		
10,900.00	7,870.00	7,906.38	7,784.27	113.95	33.08	-89.49	-185.97	5,811.11	1,004.91	874.52	130.39	7.707		
11,000.00	7,870.00	7,906.92	7,784.81	113.75	33.09	-89.54	-185.97	5,811.11	930.61	804.06	126.55	7.354		
11,100.00	7,870.00	7,907.46	7,785.36	113.55	33.09	-89.59	-185.97	5,811.11	861.52	739.77	121.75	7.076		
11,200.00	7,870.00	7,908.02	7,785.91	113.37	33.09	-89.64	-185.98	5,811.11	799.00	683.21	115.80	6.900		
11,300.00	7,870.00	7,908.57	7,786.47	113.20	33.09	-89.69	-185.98	5,811.11	744.71	636.11	108.61	6.857 SF		
11,400.00	7,870.00	7,909.13	7,787.03	113.04	33.09	-89.74	-185.98	5,811.11	700.56	600.23	100.33	6.983		
11,500.00	7,870.00	7,909.70	7,787.60	112.89	33.09	-89.79	-185.99	5,811.11	668.56	576.85	91.70	7.290		
11,600.00	7,870.00	7,910.27	7,788.17	112.76	33.10	-89.84	-185.99	5,811.11	650.50	566.10	84.40	7.707		
11,669.08	7,870.00	7,910.67	7,788.56	112.67	33.10	-89.87	-185.99	5,811.11	646.82	565.36	81.47	7.940 CC, ES		
11,700.00	7,870.00	7,910.85	7,788.74	112.64	33.10	-89.89	-185.99	5,811.12	647.56	566.62	80.94	8.000		
11,800.00	7,870.00	7,911.43	7,789.33	112.53	33.10	-89.94	-186.00	5,811.12	659.94	577.02	82.92	7.959		
11,900.00	7,870.00	7,912.02	7,789.91	112.44	33.10	-89.99	-186.00	5,811.12	686.81	597.65	89.16	7.703		
12,000.00	7,870.00	7,912.61	7,790.50	112.36	33.10	-90.04	-186.00	5,811.12	726.56	629.43	97.12	7.481		
12,100.00	7,870.00	7,913.21	7,791.10	112.29	33.11	-90.10	-186.01	5,811.12	777.22	672.22	105.00	7.402		
12,200.00	7,870.00	7,913.81	7,791.71	112.24	33.11	-90.15	-186.01	5,811.12	836.81	724.84	111.97	7.474		
12,300.00	7,870.00	7,914.42	7,792.32	112.20	33.11	-90.21	-186.02	5,811.12	903.56	785.74	117.82	7.669		
12,400.00	7,870.00	7,915.04	7,792.93	112.17	33.11	-90.26	-186.02	5,811.12	976.02	853.39	122.62	7.959		
12,500.00	7,870.00	7,915.66	7,793.55	112.16	33.11	-90.31	-186.02	5,811.13	1,052.99	926.46	126.53	8.322		
12,600.00	7,870.00	7,916.28	7,794.18	112.17	33.11	-90.37	-186.03	5,811.13	1,133.56	1,003.86	129.70	8.740		
12,700.00	7,870.00	7,916.92	7,794.81	112.19	33.12	-90.43	-186.03	5,811.13	1,217.02	1,084.73	132.29	9.200		
12,800.00	7,870.00	7,917.55	7,795.45	112.23	33.12	-90.48	-186.03	5,811.13	1,302.81	1,168.40	134.42	9.692		
12,900.00	7,870.00	7,918.20	7,796.09	112.28	33.12	-90.54	-186.04	5,811.13	1,390.50	1,254.33	136.17	10.211		
13,000.00	7,870.00	7,918.85	7,796.74	112.36	33.12	-90.60	-186.04	5,811.13	1,479.75	1,342.11	137.64	10.751		
13,100.00	7,870.00	7,919.50	7,797.40	112.45	33.12	-90.66	-186.05	5,811.14	1,570.30	1,431.43	138.87	11.308		
13,200.00	7,870.00	7,920.17	7,798.06	112.56	33.13	-90.71	-186.05	5,811.14	1,661.93	1,522.02	139.91	11.878		
13,300.00	7,870.00	7,920.84	7,798.73	112.68	33.13	-90.77	-186.06	5,811.14	1,754.48	1,613.67	140.80	12.461		
13,400.00	7,870.00	7,921.51	7,799.41	112.83	33.13	-90.83	-186.06	5,811.14	1,847.80	1,706.23	141.57	13.052		
13,500.00	7,870.00	7,922.19	7,800.09	113.00	33.13	-90.89	-186.06	5,811.14	1,941.78	1,799.55	142.23	13.652		
13,600.00	7,870.00	7,922.88	7,800.78	113.19	33.14	-90.95	-186.07	5,811.14	2,036.34	1,893.54	142.81	14.259		
13,700.00	7,870.00	7,923.58	7,801.47	113.40	33.14	-91.02	-186.07	5,811.15	2,131.40	1,988.09	143.31	14.872		
13,800.00	7,870.00	7,924.28	7,802.18	113.63	33.14	-91.08	-186.08	5,811.15	2,226.89	2,083.13	143.76	15.490		
13,900.00	7,870.00	7,924.99	7,802.88	113.89	33.14	-91.14	-186.08	5,811.15	2,322.76	2,178.60	144.16	16.113		
14,000.00	7,870.00	7,925.71	7,803.60	114.18	33.14	-91.20	-186.09	5,811.15	2,418.96	2,274.45	144.51	16.739		
14,100.00	7,870.00	7,926.43	7,804.33	114.48	33.15	-91.27	-186.09	5,811.15	2,515.46	2,370.63	144.82	17.369		
14,200.00	7,870.00	7,927.16	7,805.06	114.82	33.15	-91.33	-186.10	5,811.16	2,612.22	2,467.11	145.11	18.002		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,300.00	7,870.00	7,927.90	7,805.80	115.18	33.15	-91.40	-186.10	5,811.16	2,709.22	2,563.85	145.37	18.637		
14,400.00	7,870.00	7,928.65	7,806.54	115.57	33.15	-91.46	-186.11	5,811.16	2,806.43	2,660.83	145.60	19.275		
14,500.00	7,870.00	7,929.40	7,807.30	115.99	33.16	-91.53	-186.11	5,811.16	2,903.82	2,758.01	145.81	19.915		
14,600.00	7,870.00	7,930.16	7,808.06	116.44	33.16	-91.60	-186.12	5,811.16	3,001.39	2,855.39	146.00	20.557		
14,700.00	7,870.00	7,930.93	7,808.83	116.92	33.16	-91.67	-186.12	5,811.17	3,099.11	2,952.93	146.18	21.200		
14,800.00	7,870.00	7,931.71	7,809.61	117.44	33.16	-91.74	-186.13	5,811.17	3,196.98	3,050.63	146.35	21.845		
14,900.00	7,870.00	7,932.50	7,810.39	117.98	33.16	-91.81	-186.13	5,811.17	3,294.97	3,148.47	146.50	22.492		
15,000.00	7,870.00	7,933.29	7,811.19	118.56	33.17	-91.88	-186.14	5,811.17	3,393.08	3,246.44	146.64	23.139		
15,100.00	7,870.00	7,934.09	7,811.99	119.17	33.17	-91.95	-186.14	5,811.18	3,491.29	3,344.53	146.77	23.788		
15,200.00	7,870.00	7,934.91	7,812.80	119.81	33.17	-92.02	-186.15	5,811.18	3,589.61	3,442.72	146.89	24.438		
15,300.00	7,870.00	7,935.73	7,813.62	120.48	33.17	-92.09	-186.16	5,811.18	3,688.01	3,541.01	147.00	25.088		
15,400.00	7,870.00	7,936.55	7,814.45	121.19	33.18	-92.16	-186.16	5,811.18	3,786.50	3,639.39	147.11	25.740		
15,500.00	7,870.00	7,937.39	7,815.29	121.93	33.18	-92.24	-186.17	5,811.19	3,885.07	3,737.86	147.21	26.392		
15,600.00	7,870.00	7,938.24	7,816.13	122.71	33.18	-92.31	-186.17	5,811.19	3,983.70	3,836.40	147.30	27.045		
15,700.00	7,870.00	7,939.09	7,816.99	123.52	33.18	-92.39	-186.18	5,811.19	4,082.41	3,935.02	147.39	27.698		
15,800.00	7,870.00	7,939.96	7,817.85	124.36	33.19	-92.47	-186.19	5,811.19	4,181.17	4,033.70	147.47	28.352		
15,900.00	7,870.00	7,940.84	7,818.73	125.23	33.19	-92.54	-186.19	5,811.20	4,279.99	4,132.44	147.55	29.007		
16,000.00	7,870.00	7,941.72	7,819.61	126.14	33.19	-92.62	-186.20	5,811.20	4,378.87	4,231.24	147.63	29.662		
16,100.00	7,870.00	7,942.61	7,820.51	127.07	33.20	-92.70	-186.21	5,811.20	4,477.79	4,330.09	147.70	30.317		
16,200.00	7,870.00	7,943.52	7,821.41	128.04	33.20	-92.78	-186.21	5,811.21	4,576.76	4,428.99	147.77	30.973		
16,300.00	7,870.00	7,944.43	7,822.33	129.04	33.20	-92.86	-186.22	5,811.21	4,675.78	4,527.94	147.83	31.629		
16,400.00	7,870.00	7,945.36	7,823.25	130.06	33.20	-92.94	-186.23	5,811.21	4,774.83	4,626.94	147.90	32.285		
16,500.00	7,870.00	7,946.30	7,824.19	131.11	33.21	-93.03	-186.23	5,811.21	4,873.93	4,725.97	147.96	32.941		
16,600.00	7,870.00	7,947.24	7,825.14	132.19	33.21	-93.11	-186.24	5,811.22	4,973.06	4,825.04	148.02	33.598		
16,700.00	7,870.00	7,948.20	7,826.09	133.29	33.21	-93.19	-186.25	5,811.22	5,072.22	4,924.15	148.07	34.255		
16,800.00	7,870.00	7,949.17	7,827.06	134.42	33.22	-93.28	-186.25	5,811.22	5,171.42	5,023.29	148.13	34.912		
16,900.00	7,870.00	7,950.15	7,828.04	135.57	33.22	-93.37	-186.26	5,811.23	5,270.65	5,122.47	148.18	35.570		
17,000.00	7,870.00	7,951.14	7,829.03	136.75	33.22	-93.45	-186.27	5,811.23	5,369.90	5,221.67	148.23	36.227		
17,100.00	7,870.00	7,952.14	7,830.04	137.94	33.22	-93.54	-186.28	5,811.24	5,469.18	5,320.91	148.28	36.885		
17,200.00	7,870.00	7,953.16	7,831.05	139.16	33.23	-93.63	-186.29	5,811.24	5,568.49	5,420.17	148.32	37.543		
17,300.00	7,870.00	7,954.19	7,832.08	140.39	33.23	-93.72	-186.29	5,811.24	5,667.82	5,519.45	148.37	38.200		
17,400.00	7,870.00	7,955.23	7,833.12	141.65	33.23	-93.81	-186.30	5,811.25	5,767.18	5,618.76	148.42	38.858		
17,500.00	7,870.00	7,956.28	7,834.17	142.92	33.24	-93.91	-186.31	5,811.25	5,866.55	5,718.09	148.46	39.516		
17,600.00	7,870.00	7,957.35	7,835.24	144.21	33.24	-94.00	-186.32	5,811.25	5,965.95	5,817.45	148.50	40.174		
17,700.00	7,870.00	7,958.43	7,836.32	145.52	33.24	-94.09	-186.33	5,811.26	6,065.37	5,916.82	148.55	40.832		
17,800.00	7,870.00	7,959.52	7,837.41	146.84	33.25	-94.19	-186.34	5,811.26	6,164.80	6,016.22	148.59	41.489		
17,900.00	7,870.00	7,960.62	7,838.52	148.18	33.25	-94.29	-186.35	5,811.27	6,264.26	6,115.63	148.63	42.147		
18,000.00	7,870.00	7,961.74	7,839.63	149.54	33.25	-94.39	-186.36	5,811.27	6,363.73	6,215.06	148.67	42.805		
18,100.00	7,870.00	7,962.88	7,840.77	150.90	33.26	-94.49	-186.36	5,811.28	6,463.22	6,314.51	148.71	43.463		
18,200.00	7,870.00	7,964.02	7,841.92	152.28	33.26	-94.59	-186.37	5,811.28	6,562.72	6,413.97	148.75	44.120		
18,300.00	7,870.00	7,965.19	7,843.08	153.67	33.26	-94.69	-186.38	5,811.29	6,662.23	6,513.45	148.78	44.778		
18,400.00	7,870.00	7,966.36	7,844.26	155.07	33.27	-94.79	-186.39	5,811.29	6,761.77	6,612.94	148.82	45.436		
18,500.00	7,870.00	7,967.56	7,845.45	156.49	33.27	-94.90	-186.40	5,811.30	6,861.31	6,712.45	148.86	46.093		
18,600.00	7,870.00	7,968.76	7,846.66	157.91	33.28	-95.00	-186.41	5,811.30	6,960.87	6,811.97	148.89	46.750		
18,700.00	7,870.00	7,969.99	7,847.88	159.35	33.28	-95.11	-186.42	5,811.31	7,060.44	6,911.51	148.93	47.408		
18,800.00	7,870.00	7,971.23	7,849.12	160.79	33.28	-95.22	-186.44	5,811.31	7,160.02	7,011.05	148.97	48.065		
18,900.00	7,870.00	7,972.49	7,850.38	162.25	33.29	-95.33	-186.45	5,811.32	7,259.61	7,110.61	149.00	48.722		
19,000.00	7,870.00	7,973.76	7,851.65	163.71	33.29	-95.44	-186.46	5,811.32	7,359.22	7,210.18	149.04	49.379		
19,100.00	7,870.00	7,975.05	7,852.94	165.18	33.30	-95.56	-186.47	5,811.33	7,458.83	7,309.76	149.07	50.035		
19,200.00	7,870.00	7,976.36	7,854.25	166.66	33.30	-95.67	-186.48	5,811.33	7,558.45	7,409.35	149.11	50.692		
19,300.00	7,870.00	7,977.68	7,855.58	168.15	33.30	-95.79	-186.49	5,811.34	7,658.09	7,508.95	149.14	51.348		
19,400.00	7,870.00	7,979.03	7,856.92	169.65	33.31	-95.90	-186.50	5,811.35	7,757.73	7,608.56	149.17	52.004		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,500.00	7,870.00	7,980.39	7,858.28	171.15	33.31	-96.02	-186.52	5,811.35	7,857.38	7,708.18	149.21	52.660	
19,600.00	7,870.00	7,981.77	7,859.66	172.66	33.32	-96.14	-186.53	5,811.36	7,957.05	7,807.80	149.24	53.316	
19,700.00	7,870.00	7,983.17	7,861.06	174.18	33.32	-96.27	-186.54	5,811.36	8,056.71	7,907.44	149.28	53.972	
19,800.00	7,870.00	7,984.59	7,862.49	175.70	33.32	-96.39	-186.56	5,811.37	8,156.39	8,007.08	149.31	54.627	
19,889.26	7,870.00	7,985.88	7,863.77	177.06	33.33	-96.50	-186.57	5,811.38	8,245.36	8,096.02	149.34	55.212	

Anticollision Report

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

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 139-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	81.91	761.94	5,362.45	5,416.91					
100.00	100.00	56.89	56.89	0.13	0.09	81.91	761.96	5,362.24	5,416.24	5,416.01	0.23	N/A		
200.00	200.00	177.58	177.56	0.49	0.36	81.91	762.16	5,360.67	5,414.90	5,414.04	0.86	6,318.119		
300.00	300.00	231.35	231.34	0.85	0.55	81.90	762.69	5,360.25	5,414.25	5,412.84	1.41	3,853.492		
400.00	399.98	321.00	320.96	1.21	0.87	13.75	764.84	5,359.75	5,412.35	5,410.28	2.08	2,605.057		
500.00	499.84	396.05	395.90	1.56	1.15	13.74	768.72	5,359.29	5,407.41	5,404.70	2.70	1,999.177		
600.00	599.45	461.35	460.98	1.93	1.39	13.73	774.10	5,358.99	5,399.67	5,396.36	3.31	1,633.274		
700.00	698.70	1,097.67	1,085.41	2.32	4.21	12.75	884.65	5,319.12	5,385.31	5,378.82	6.49	830.121		
800.00	797.47	1,179.20	1,164.36	2.72	4.63	12.68	902.52	5,309.30	5,361.68	5,354.41	7.26	738.030		
900.00	895.62	1,271.30	1,253.81	3.16	5.10	12.61	921.59	5,298.52	5,334.96	5,326.87	8.09	659.201		
1,000.00	993.06	1,316.44	1,297.78	3.63	5.33	12.66	930.47	5,293.50	5,305.45	5,296.76	8.69	610.576		
1,100.00	1,089.64	1,371.00	1,350.95	4.14	5.61	12.71	941.40	5,288.04	5,273.70	5,264.36	9.34	564.841		
1,200.00	1,185.27	1,413.96	1,392.78	4.70	5.83	12.79	950.34	5,284.05	5,239.53	5,229.59	9.94	527.164		
1,300.00	1,279.82	1,492.16	1,468.67	5.31	6.24	12.82	967.83	5,276.98	5,202.79	5,192.06	10.73	484.853		
1,400.00	1,373.17	1,632.11	1,603.72	5.97	7.00	12.71	1,001.82	5,263.12	5,162.47	5,150.60	11.87	434.870		
1,500.00	1,465.21	1,703.01	1,672.06	6.69	7.39	12.77	1,019.20	5,255.80	5,118.80	5,106.15	12.65	404.533		
1,600.00	1,555.84	1,777.03	1,743.83	7.47	7.79	12.86	1,035.93	5,248.79	5,072.56	5,059.11	13.45	377.130		
1,700.00	1,644.94	1,869.73	1,833.95	8.31	8.27	12.96	1,055.79	5,240.11	5,023.29	5,008.96	14.33	350.508		
1,800.00	1,732.39	1,942.79	1,905.30	9.23	8.64	13.14	1,070.08	5,233.56	4,971.18	4,956.06	15.11	328.961		
1,900.00	1,818.11	1,997.47	1,958.78	10.21	8.91	13.37	1,080.51	5,228.96	4,916.57	4,900.77	15.81	311.041		
2,000.00	1,901.97	2,088.64	2,047.73	11.26	9.38	13.58	1,098.98	5,221.43	4,859.48	4,842.80	16.69	291.227		
2,100.00	1,983.88	2,264.48	2,218.35	12.38	10.31	13.67	1,137.81	5,204.01	4,798.59	4,780.61	17.98	266.922		
2,200.00	2,063.74	2,355.69	2,307.13	13.57	10.78	13.97	1,156.23	5,194.13	4,734.10	4,715.25	18.85	251.131		
2,300.00	2,141.45	2,419.64	2,369.62	14.84	11.11	14.36	1,168.03	5,187.42	4,667.09	4,647.49	19.60	238.129		
2,327.78	2,162.65	2,433.73	2,383.39	15.21	11.18	14.48	1,170.64	5,185.97	4,648.08	4,628.28	19.80	234.810		
2,400.00	2,217.51	2,470.35	2,419.14	16.17	11.36	14.45	1,177.60	5,182.26	4,598.53	4,578.24	20.29	226.620		
2,500.00	2,293.49	2,519.74	2,467.31	17.51	11.61	14.40	1,187.40	5,177.39	4,530.24	4,509.25	20.99	215.872		
2,600.00	2,369.47	2,568.26	2,514.56	18.86	11.86	14.35	1,197.41	5,172.81	4,462.34	4,440.65	21.69	205.736		
2,700.00	2,445.45	2,667.97	2,611.51	20.22	12.39	14.23	1,218.75	5,163.37	4,394.59	4,371.97	22.61	194.343		
2,800.00	2,521.42	2,766.36	2,707.11	21.59	12.91	14.11	1,239.72	5,153.30	4,326.23	4,302.70	23.53	183.873		
2,900.00	2,597.40	2,859.71	2,797.76	22.97	13.40	13.98	1,259.59	5,143.27	4,257.51	4,233.09	24.42	174.317		
3,000.00	2,673.38	2,921.44	2,857.56	24.34	13.74	13.88	1,273.28	5,136.44	4,188.69	4,163.48	25.21	166.159		
3,100.00	2,749.36	2,976.71	2,911.01	25.73	14.04	13.78	1,286.00	5,130.41	4,120.12	4,094.14	25.98	158.594		
3,200.00	2,825.33	3,024.76	2,957.34	27.11	14.32	13.69	1,297.70	5,125.32	4,051.96	4,025.23	26.74	151.556		
3,300.00	2,901.31	3,077.97	3,008.47	28.50	14.62	13.56	1,311.38	5,119.86	3,984.24	3,956.72	27.52	144.773		
3,400.00	2,977.29	3,138.81	3,066.89	29.90	14.97	13.41	1,327.24	5,113.79	3,916.81	3,888.47	28.34	138.194		
3,500.00	3,053.27	3,234.69	3,158.96	31.29	15.53	13.16	1,352.19	5,104.16	3,849.35	3,820.06	29.29	131.425		
3,600.00	3,129.24	3,326.44	3,247.03	32.69	16.06	12.91	1,375.99	5,094.40	3,781.47	3,751.26	30.22	125.148		
3,700.00	3,205.22	3,390.43	3,308.40	34.08	16.44	12.73	1,392.73	5,087.46	3,713.50	3,682.45	31.05	119.588		
3,800.00	3,281.20	3,479.08	3,393.34	35.48	16.96	12.46	1,416.26	5,077.89	3,645.68	3,613.72	31.97	114.045		
3,900.00	3,357.18	3,569.11	3,479.41	36.88	17.50	12.16	1,440.45	5,067.35	3,577.24	3,544.36	32.88	108.787		
4,000.00	3,433.15	3,634.07	3,541.52	38.29	17.89	11.94	1,457.91	5,059.74	3,508.85	3,475.12	33.72	104.049		
4,100.00	3,509.13	3,692.04	3,597.24	39.69	18.22	11.76	1,472.56	5,053.35	3,440.74	3,406.20	34.54	99.616		
4,200.00	3,585.11	3,752.10	3,655.24	41.09	18.56	11.58	1,486.86	5,047.17	3,372.95	3,337.59	35.36	95.389		
4,300.00	3,661.08	3,820.78	3,721.51	42.50	18.95	11.37	1,503.54	5,040.28	3,305.44	3,269.24	36.20	91.316		
4,400.00	3,737.06	3,921.68	3,818.57	43.90	19.52	11.02	1,528.90	5,029.43	3,237.58	3,200.49	37.09	87.280		
4,500.00	3,813.04	4,008.10	3,902.07	45.31	20.01	10.74	1,549.04	5,019.97	3,169.33	3,131.38	37.95	83.510		
4,600.00	3,889.02	4,079.30	3,971.04	46.71	20.40	10.52	1,564.93	5,012.23	3,100.99	3,062.23	38.77	79.988		
4,700.00	3,964.99	4,140.96	4,030.89	48.12	20.73	10.33	1,578.26	5,005.71	3,032.78	2,993.21	39.57	76.638		
4,800.00	4,040.97	4,207.85	4,096.07	49.53	21.07	10.15	1,591.76	4,999.13	2,964.85	2,924.48	40.38	73.426		
4,900.00	4,116.95	4,292.58	4,178.76	50.94	21.51	9.92	1,608.28	4,990.85	2,896.89	2,855.71	41.18	70.344		
5,000.00	4,192.93	4,403.16	4,286.45	52.35	22.08	9.58	1,630.29	4,978.79	2,828.18	2,786.21	41.97	67.380		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,268.90	4,478.52	4,359.64	53.76	22.48	9.31	1,645.83	4,969.76	2,758.89	2,716.12	42.77	64.512		
5,200.00	4,344.88	4,524.50	4,404.38	55.16	22.72	9.15	1,655.07	4,964.60	2,690.07	2,646.50	43.58	61.733		
5,300.00	4,420.86	4,555.00	4,434.14	56.57	22.88	9.05	1,660.98	4,961.48	2,622.06	2,577.65	44.41	59.040		
5,400.00	4,496.84	4,607.35	4,485.44	57.98	23.13	8.90	1,670.41	4,956.98	2,554.86	2,509.64	45.22	56.500		
5,500.00	4,572.81	4,648.00	4,525.47	59.39	23.32	8.82	1,676.93	4,954.36	2,488.74	2,442.69	46.06	54.036		
5,600.00	4,648.79	4,763.29	4,639.45	60.81	23.80	8.63	1,692.75	4,947.27	2,422.31	2,375.58	46.73	51.834		
5,700.00	4,724.77	4,830.89	4,706.51	62.22	24.07	8.58	1,700.18	4,943.26	2,355.59	2,308.09	47.50	49.596		
5,800.00	4,800.74	4,896.18	4,771.43	63.63	24.31	8.57	1,706.22	4,939.92	2,289.12	2,240.87	48.26	47.436		
5,900.00	4,876.72	4,970.70	4,845.64	65.04	24.58	8.59	1,712.18	4,936.62	2,222.89	2,173.90	48.99	45.377		
6,000.00	4,952.70	5,043.90	4,918.63	66.45	24.82	8.65	1,716.81	4,933.56	2,156.51	2,106.80	49.72	43.375		
6,100.00	5,028.68	5,101.49	4,976.12	67.86	25.00	8.74	1,719.68	4,931.72	2,090.58	2,040.07	50.52	41.384		
6,200.00	5,104.65	5,183.30	5,057.88	69.27	25.23	8.95	1,721.86	4,929.95	2,024.96	1,973.76	51.20	39.551		
6,300.00	5,180.63	5,256.33	5,130.89	70.69	25.41	9.25	1,721.24	4,928.78	1,959.07	1,907.15	51.92	37.729		
6,400.00	5,256.61	5,326.67	5,201.21	72.10	25.57	9.60	1,719.68	4,928.17	1,893.49	1,840.81	52.68	35.944		
6,500.00	5,332.59	5,407.98	5,282.50	73.51	25.75	10.03	1,717.80	4,927.41	1,827.89	1,774.51	53.38	34.244		
6,600.00	5,408.56	5,499.31	5,373.79	74.92	25.96	10.55	1,715.66	4,925.92	1,761.84	1,707.81	54.02	32.613		
6,700.00	5,484.54	5,567.44	5,441.89	76.34	26.12	10.97	1,714.09	4,924.64	1,695.67	1,640.82	54.85	30.917		
6,800.00	5,560.52	5,634.56	5,508.99	77.75	26.28	11.41	1,712.75	4,923.54	1,629.80	1,574.09	55.71	29.256		
6,900.00	5,636.50	5,702.21	5,576.62	79.16	26.44	11.86	1,711.84	4,922.67	1,564.36	1,507.77	56.59	27.642		
7,000.00	5,712.47	5,772.18	5,646.59	80.57	26.61	12.36	1,711.13	4,921.99	1,499.28	1,441.79	57.50	26.076		
7,100.00	5,788.45	5,848.36	5,722.77	81.99	26.80	12.94	1,710.48	4,921.32	1,434.39	1,376.01	58.38	24.569		
7,200.00	5,864.43	5,919.14	5,793.54	83.40	26.98	13.52	1,710.01	4,920.73	1,369.65	1,310.29	59.36	23.074		
7,300.00	5,940.40	5,992.44	5,866.84	84.81	27.17	14.17	1,709.79	4,920.34	1,305.29	1,244.93	60.36	21.626		
7,400.00	6,016.38	6,068.85	5,943.25	86.23	27.37	14.91	1,709.62	4,919.88	1,241.00	1,179.62	61.38	20.219		
7,500.00	6,092.36	6,141.78	6,016.17	87.64	27.56	15.67	1,709.66	4,919.49	1,176.93	1,114.43	62.50	18.830		
7,600.00	6,168.34	6,217.29	6,091.68	89.05	27.77	16.54	1,709.93	4,919.14	1,113.11	1,049.44	63.67	17.481		
7,700.00	6,244.31	6,290.61	6,165.01	90.47	27.97	17.46	1,710.32	4,918.85	1,049.54	984.58	64.96	16.156		
7,800.00	6,320.29	6,363.21	6,237.60	91.88	28.17	18.49	1,710.77	4,918.79	986.41	920.04	66.37	14.862		
7,900.00	6,396.27	6,436.73	6,311.12	93.30	28.37	19.69	1,710.84	4,919.04	923.80	855.88	67.92	13.600		
8,000.00	6,472.25	6,515.35	6,389.74	94.71	28.58	21.15	1,710.83	4,919.29	861.49	791.91	69.58	12.381		
8,100.00	6,548.22	6,590.71	6,465.10	96.12	28.78	22.77	1,710.83	4,919.45	799.49	727.98	71.51	11.180		
8,200.00	6,624.20	6,668.97	6,543.36	97.54	28.99	24.72	1,710.69	4,919.60	737.96	664.28	73.68	10.015		
8,300.00	6,700.18	6,746.12	6,620.51	98.95	29.19	26.97	1,710.51	4,919.47	676.80	600.54	76.25	8.876		
8,400.00	6,776.16	6,821.93	6,696.32	100.37	29.40	29.58	1,710.41	4,919.34	616.46	537.14	79.32	7.772		
8,500.00	6,852.13	6,898.75	6,773.14	101.78	29.61	32.72	1,710.39	4,919.13	557.12	474.14	82.98	6.714		
8,600.00	6,928.11	6,974.35	6,848.73	103.20	29.82	36.44	1,710.36	4,918.87	499.21	411.71	87.50	5.706		
8,700.00	7,004.09	7,050.12	6,924.51	104.61	30.03	40.97	1,710.30	4,918.61	443.36	350.29	93.07	4.764		
8,800.00	7,080.06	7,125.94	7,000.33	106.02	30.25	46.50	1,710.28	4,918.36	390.43	290.47	99.95	3.906		
8,900.00	7,156.04	7,202.18	7,076.57	107.44	30.46	53.30	1,710.40	4,918.12	341.75	233.41	108.34	3.154		
9,000.00	7,232.02	7,278.77	7,153.16	108.85	30.69	61.60	1,710.63	4,917.73	299.24	181.12	118.12	2.533		
9,104.68	7,311.55	7,358.21	7,232.59	110.33	30.92	71.88	1,710.87	4,917.15	264.74	135.95	128.79	2.056		
9,150.00	7,346.29	7,392.93	7,267.31	110.97	31.02	70.84	1,710.97	4,916.85	252.59	119.81	132.79	1.902		
9,200.00	7,385.15	7,431.76	7,306.14	111.65	31.13	69.68	1,711.11	4,916.50	238.92	102.67	136.25	1.754		
9,250.00	7,424.29	7,470.83	7,345.21	112.31	31.25	68.72	1,711.28	4,916.14	224.81	86.20	138.61	1.622		
9,300.00	7,463.40	7,509.82	7,384.20	112.93	31.37	68.27	1,711.49	4,915.76	210.26	70.58	139.67	1.505		
9,350.00	7,502.19	7,548.43	7,422.81	113.51	31.48	68.68	1,711.72	4,915.37	195.41	56.28	139.13	1.404 Level 3		
9,400.00	7,540.36	7,585.96	7,460.33	114.04	31.59	70.17	1,711.94	4,915.03	180.69	44.25	136.44	1.324 Level 3		
9,450.00	7,577.62	7,622.75	7,497.12	114.53	31.70	73.08	1,712.11	4,914.78	166.79	35.98	130.81	1.275 Level 3, SF		
9,500.00	7,613.70	7,658.61	7,532.98	114.95	31.81	77.52	1,712.22	4,914.63	154.75	33.52	121.23	1.276 Level 3, ES		
9,550.00	7,648.30	7,693.18	7,567.55	115.32	31.91	83.27	1,712.34	4,914.53	146.03	39.09	106.93	1.366 Level 3		
9,600.00	7,681.18	7,726.09	7,600.46	115.63	32.01	89.76	1,712.45	4,914.49	142.45	53.29	89.16	1.598		
9,602.94	7,683.06	7,727.97	7,602.34	115.65	32.01	90.15	1,712.46	4,914.49	142.44	54.33	88.11	1.617 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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,650.00	7,712.08	7,756.88	7,631.25	115.88	32.10	96.13	1,712.55	4,914.49	145.67	70.89	74.78	1.948		
9,700.00	7,740.76	7,785.44	7,659.81	116.08	32.18	101.64	1,712.61	4,914.49	156.53	81.14	75.38	2.076		
9,750.00	7,767.01	7,811.64	7,686.01	116.23	32.26	105.83	1,712.64	4,914.49	174.64	86.92	87.72	1.991		
9,800.00	7,790.63	7,835.28	7,709.64	116.33	32.33	108.49	1,712.65	4,914.49	198.90	97.72	101.18	1.966		
9,850.00	7,811.44	7,856.07	7,730.44	116.38	32.39	109.56	1,712.65	4,914.49	228.03	115.86	112.17	2.033		
9,900.00	7,829.28	7,873.91	7,748.28	116.38	32.44	109.14	1,712.65	4,914.49	260.92	140.44	120.48	2.166		
9,950.00	7,844.01	7,888.64	7,763.01	116.35	32.49	107.34	1,712.65	4,914.49	296.66	170.03	126.63	2.343		
10,000.00	7,855.52	7,900.15	7,774.52	116.28	32.52	104.27	1,712.65	4,914.49	334.52	203.36	131.17	2.550		
10,050.00	7,863.72	7,908.35	7,782.72	116.18	32.54	100.11	1,712.65	4,914.49	373.93	239.39	134.53	2.779		
10,100.00	7,868.56	7,913.19	7,787.56	116.06	32.56	95.10	1,712.65	4,914.49	414.37	277.34	137.03	3.024		
10,145.94	7,870.00	7,914.63	7,789.00	115.92	32.56	90.00	1,712.65	4,914.49	452.07	313.31	138.76	3.258		
10,200.00	7,870.00	7,914.63	7,789.00	115.76	32.56	90.00	1,712.65	4,914.49	497.56	357.37	140.19	3.549		
10,300.00	7,870.00	7,914.63	7,789.00	115.46	32.56	90.00	1,712.65	4,914.49	585.55	443.88	141.67	4.133		
10,400.00	7,870.00	7,914.63	7,789.00	115.18	32.56	90.00	1,712.65	4,914.49	676.89	534.57	142.32	4.756		
10,500.00	7,870.00	7,914.63	7,789.00	114.91	32.56	90.00	1,712.65	4,914.49	770.38	627.82	142.56	5.404		
10,600.00	7,870.00	7,914.63	7,789.00	114.65	32.56	90.00	1,712.65	4,914.49	865.33	722.74	142.59	6.069		
10,700.00	7,870.00	7,914.63	7,789.00	114.41	32.56	90.00	1,712.65	4,914.49	961.30	818.78	142.53	6.745		
10,800.00	7,870.00	7,914.63	7,789.00	114.17	32.56	90.00	1,712.65	4,914.49	1,058.02	915.62	142.41	7.430		
10,900.00	7,870.00	7,914.63	7,789.00	113.95	32.56	90.00	1,712.65	4,914.49	1,155.30	1,013.04	142.26	8.121		
11,000.00	7,870.00	7,914.63	7,789.00	113.75	32.56	90.00	1,712.65	4,914.49	1,253.01	1,110.90	142.11	8.817		
11,100.00	7,870.00	7,914.63	7,789.00	113.55	32.56	90.00	1,712.65	4,914.49	1,351.05	1,209.09	141.96	9.517		
11,200.00	7,870.00	7,914.63	7,789.00	113.37	32.56	90.00	1,712.65	4,914.49	1,449.36	1,307.55	141.81	10.220		
11,300.00	7,870.00	7,914.63	7,789.00	113.20	32.56	90.00	1,712.65	4,914.49	1,547.89	1,406.22	141.67	10.926		
11,400.00	7,870.00	7,914.63	7,789.00	113.04	32.56	90.00	1,712.65	4,914.49	1,646.59	1,505.06	141.53	11.634		
11,500.00	7,870.00	7,914.63	7,789.00	112.89	32.56	90.00	1,712.65	4,914.49	1,745.44	1,604.04	141.41	12.343		
11,600.00	7,870.00	7,914.63	7,789.00	112.76	32.56	90.00	1,712.65	4,914.49	1,844.42	1,703.13	141.29	13.054		
11,700.00	7,870.00	7,914.63	7,789.00	112.64	32.56	90.00	1,712.65	4,914.49	1,943.50	1,802.32	141.18	13.766		
11,800.00	7,870.00	7,914.63	7,789.00	112.53	32.56	90.00	1,712.65	4,914.49	2,042.67	1,901.60	141.07	14.479		
11,900.00	7,870.00	7,914.63	7,789.00	112.44	32.56	90.00	1,712.65	4,914.49	2,141.92	2,000.94	140.98	15.193		
12,000.00	7,870.00	7,914.63	7,789.00	112.36	32.56	90.00	1,712.65	4,914.49	2,241.23	2,100.35	140.89	15.908		
12,100.00	7,870.00	7,914.63	7,789.00	112.29	32.56	90.00	1,712.65	4,914.49	2,340.60	2,199.80	140.80	16.624		
12,200.00	7,870.00	7,914.63	7,789.00	112.24	32.56	90.00	1,712.65	4,914.49	2,440.03	2,299.31	140.72	17.340		
12,300.00	7,870.00	7,914.63	7,789.00	112.20	32.56	90.00	1,712.65	4,914.49	2,539.50	2,398.85	140.65	18.056		
12,400.00	7,870.00	7,914.63	7,789.00	112.17	32.56	90.00	1,712.65	4,914.49	2,639.01	2,498.43	140.58	18.773		
12,500.00	7,870.00	7,914.63	7,789.00	112.16	32.56	90.00	1,712.65	4,914.49	2,738.55	2,598.04	140.51	19.490		
12,600.00	7,870.00	7,914.63	7,789.00	112.17	32.56	90.00	1,712.65	4,914.49	2,838.13	2,697.68	140.45	20.208		
12,700.00	7,870.00	7,914.63	7,789.00	112.19	32.56	90.00	1,712.65	4,914.49	2,937.73	2,797.34	140.39	20.926		
12,800.00	7,870.00	7,914.63	7,789.00	112.23	32.56	90.00	1,712.65	4,914.49	3,037.36	2,897.03	140.34	21.644		
12,900.00	7,870.00	7,914.63	7,789.00	112.28	32.56	90.00	1,712.65	4,914.49	3,137.02	2,996.74	140.28	22.362		
13,000.00	7,870.00	7,914.63	7,789.00	112.36	32.56	90.00	1,712.65	4,914.49	3,236.70	3,096.46	140.24	23.080		
13,100.00	7,870.00	7,914.63	7,789.00	112.45	32.56	90.00	1,712.65	4,914.49	3,336.39	3,196.20	140.19	23.799		
13,200.00	7,870.00	7,914.63	7,789.00	112.56	32.56	90.00	1,712.65	4,914.49	3,436.10	3,295.96	140.15	24.518		
13,300.00	7,870.00	7,914.63	7,789.00	112.68	32.56	90.00	1,712.65	4,914.49	3,535.83	3,395.73	140.11	25.237		
13,400.00	7,870.00	7,914.63	7,789.00	112.83	32.56	90.00	1,712.65	4,914.49	3,635.58	3,495.51	140.07	25.956		
13,500.00	7,870.00	7,914.63	7,789.00	113.00	32.56	90.00	1,712.65	4,914.49	3,735.34	3,595.30	140.03	26.675		
13,600.00	7,870.00	7,914.63	7,789.00	113.19	32.56	90.00	1,712.65	4,914.49	3,835.11	3,695.11	140.00	27.394		
13,700.00	7,870.00	7,914.63	7,789.00	113.40	32.56	90.00	1,712.65	4,914.49	3,934.89	3,794.92	139.97	28.113		
13,800.00	7,870.00	7,914.63	7,789.00	113.63	32.56	90.00	1,712.65	4,914.49	4,034.68	3,894.74	139.94	28.832		
13,900.00	7,870.00	7,914.63	7,789.00	113.89	32.56	90.00	1,712.65	4,914.49	4,134.49	3,994.58	139.91	29.551		
14,000.00	7,870.00	7,914.63	7,789.00	114.18	32.56	90.00	1,712.65	4,914.49	4,234.30	4,094.41	139.88	30.270		
14,100.00	7,870.00	7,914.63	7,789.00	114.48	32.56	90.00	1,712.65	4,914.49	4,334.12	4,194.26	139.86	30.989		
14,200.00	7,870.00	7,914.63	7,789.00	114.82	32.56	90.00	1,712.65	4,914.49	4,433.95	4,294.11	139.84	31.708		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,300.00	7,870.00	7,914.63	7,789.00	115.18	32.56	90.00	1,712.65	4,914.49	4,533.79	4,393.97	139.81	32.427		
14,400.00	7,870.00	7,914.63	7,789.00	115.57	32.56	90.00	1,712.65	4,914.49	4,633.63	4,493.84	139.79	33.146		
14,500.00	7,870.00	7,914.63	7,789.00	115.99	32.56	90.00	1,712.65	4,914.49	4,733.48	4,593.71	139.77	33.865		
14,600.00	7,870.00	7,914.63	7,789.00	116.44	32.56	90.00	1,712.65	4,914.49	4,833.34	4,693.58	139.76	34.584		
14,700.00	7,870.00	7,914.63	7,789.00	116.92	32.56	90.00	1,712.65	4,914.49	4,933.20	4,793.46	139.74	35.303		
14,800.00	7,870.00	7,914.63	7,789.00	117.44	32.56	90.00	1,712.65	4,914.49	5,033.07	4,893.34	139.72	36.022		
14,900.00	7,870.00	7,914.63	7,789.00	117.98	32.56	90.00	1,712.65	4,914.49	5,132.94	4,993.23	139.71	36.740		
15,000.00	7,870.00	7,914.63	7,789.00	118.56	32.56	90.00	1,712.65	4,914.49	5,232.82	5,093.12	139.69	37.459		
15,100.00	7,870.00	7,914.63	7,789.00	119.17	32.56	90.00	1,712.65	4,914.49	5,332.70	5,193.02	139.68	38.177		
15,200.00	7,870.00	7,914.63	7,789.00	119.81	32.56	90.00	1,712.65	4,914.49	5,432.59	5,292.92	139.67	38.896		
15,300.00	7,870.00	7,914.63	7,789.00	120.48	32.56	90.00	1,712.65	4,914.49	5,532.48	5,392.82	139.66	39.614		
15,400.00	7,870.00	7,914.63	7,789.00	121.19	32.56	90.00	1,712.65	4,914.49	5,632.37	5,492.72	139.65	40.332		
15,500.00	7,870.00	7,914.63	7,789.00	121.93	32.56	90.00	1,712.65	4,914.49	5,732.27	5,592.63	139.64	41.050		
15,600.00	7,870.00	7,914.63	7,789.00	122.71	32.56	90.00	1,712.65	4,914.49	5,832.17	5,692.54	139.63	41.768		
15,700.00	7,870.00	7,914.63	7,789.00	123.52	32.56	90.00	1,712.65	4,914.49	5,932.08	5,792.45	139.63	42.486		
15,800.00	7,870.00	7,914.63	7,789.00	124.36	32.56	90.00	1,712.65	4,914.49	6,031.98	5,892.37	139.62	43.203		
15,900.00	7,870.00	7,914.63	7,789.00	125.23	32.56	90.00	1,712.65	4,914.49	6,131.90	5,992.28	139.61	43.921		
16,000.00	7,870.00	7,914.63	7,789.00	126.14	32.56	90.00	1,712.65	4,914.49	6,231.81	6,092.20	139.61	44.638		
16,100.00	7,870.00	7,914.63	7,789.00	127.07	32.56	90.00	1,712.65	4,914.49	6,331.73	6,192.12	139.60	45.355		
16,200.00	7,870.00	7,914.63	7,789.00	128.04	32.56	90.00	1,712.65	4,914.49	6,431.65	6,292.05	139.60	46.072		
16,300.00	7,870.00	7,914.63	7,789.00	129.04	32.56	90.00	1,712.65	4,914.49	6,531.57	6,391.97	139.60	46.789		
16,400.00	7,870.00	7,914.63	7,789.00	130.06	32.56	90.00	1,712.65	4,914.49	6,631.49	6,491.90	139.59	47.505		
16,500.00	7,870.00	7,914.63	7,789.00	131.11	32.56	90.00	1,712.65	4,914.49	6,731.42	6,591.83	139.59	48.222		
16,600.00	7,870.00	7,914.63	7,789.00	132.19	32.56	90.00	1,712.65	4,914.49	6,831.35	6,691.76	139.59	48.938		
16,700.00	7,870.00	7,914.63	7,789.00	133.29	32.56	90.00	1,712.65	4,914.49	6,931.28	6,791.69	139.59	49.654		
16,800.00	7,870.00	7,914.63	7,789.00	134.42	32.56	90.00	1,712.65	4,914.49	7,031.21	6,891.62	139.59	50.370		
16,900.00	7,870.00	7,914.63	7,789.00	135.57	32.56	90.00	1,712.65	4,914.49	7,131.15	6,991.55	139.59	51.086		
17,000.00	7,870.00	7,914.63	7,789.00	136.75	32.56	90.00	1,712.65	4,914.49	7,231.08	7,091.49	139.59	51.801		
17,100.00	7,870.00	7,914.63	7,789.00	137.94	32.56	90.00	1,712.65	4,914.49	7,331.02	7,191.42	139.60	52.516		
17,200.00	7,870.00	7,914.63	7,789.00	139.16	32.56	90.00	1,712.65	4,914.49	7,430.96	7,291.36	139.60	53.231		
17,300.00	7,870.00	7,914.63	7,789.00	140.39	32.56	90.00	1,712.65	4,914.49	7,530.90	7,391.30	139.60	53.946		
17,400.00	7,870.00	7,914.63	7,789.00	141.65	32.56	90.00	1,712.65	4,914.49	7,630.84	7,491.24	139.60	54.661		
17,500.00	7,870.00	7,914.63	7,789.00	142.92	32.56	90.00	1,712.65	4,914.49	7,730.79	7,591.18	139.61	55.375		
17,600.00	7,870.00	7,914.63	7,789.00	144.21	32.56	90.00	1,712.65	4,914.49	7,830.73	7,691.12	139.61	56.089		
17,700.00	7,870.00	7,914.63	7,789.00	145.52	32.56	90.00	1,712.65	4,914.49	7,930.68	7,791.06	139.62	56.803		
17,800.00	7,870.00	7,914.63	7,789.00	146.84	32.56	90.00	1,712.65	4,914.49	8,030.63	7,891.01	139.62	57.516		
17,900.00	7,870.00	7,914.63	7,789.00	148.18	32.56	90.00	1,712.65	4,914.49	8,130.58	7,990.95	139.63	58.230		
18,000.00	7,870.00	7,914.63	7,789.00	149.54	32.56	90.00	1,712.65	4,914.49	8,230.53	8,090.89	139.64	58.943		
18,100.00	7,870.00	7,914.63	7,789.00	150.90	32.56	90.00	1,712.65	4,914.49	8,330.48	8,190.84	139.64	59.656		
18,200.00	7,870.00	7,914.63	7,789.00	152.28	32.56	90.00	1,712.65	4,914.49	8,430.44	8,290.79	139.65	60.369		
18,300.00	7,870.00	7,914.63	7,789.00	153.67	32.56	90.00	1,712.65	4,914.49	8,530.39	8,390.73	139.66	61.081		
18,400.00	7,870.00	7,914.63	7,789.00	155.07	32.56	90.00	1,712.65	4,914.49	8,630.35	8,490.68	139.67	61.793		
18,500.00	7,870.00	7,914.63	7,789.00	156.49	32.56	90.00	1,712.65	4,914.49	8,730.30	8,590.63	139.67	62.505		
18,600.00	7,870.00	7,914.63	7,789.00	157.91	32.56	90.00	1,712.65	4,914.49	8,830.26	8,690.58	139.68	63.216		
18,700.00	7,870.00	7,914.63	7,789.00	159.35	32.56	90.00	1,712.65	4,914.49	8,930.22	8,790.52	139.69	63.928		
18,800.00	7,870.00	7,914.63	7,789.00	160.79	32.56	90.00	1,712.65	4,914.49	9,030.18	8,890.47	139.70	64.639		
18,900.00	7,870.00	7,914.63	7,789.00	162.25	32.56	90.00	1,712.65	4,914.49	9,130.14	8,990.42	139.71	65.349		
19,000.00	7,870.00	7,914.63	7,789.00	163.71	32.56	90.00	1,712.65	4,914.49	9,230.10	9,090.37	139.72	66.060		
19,100.00	7,870.00	7,914.63	7,789.00	165.18	32.56	90.00	1,712.65	4,914.49	9,330.06	9,190.33	139.73	66.770		
19,200.00	7,870.00	7,914.63	7,789.00	166.66	32.56	90.00	1,712.65	4,914.49	9,430.02	9,290.28	139.75	67.480		
19,300.00	7,870.00	7,914.63	7,789.00	168.15	32.56	90.00	1,712.65	4,914.49	9,529.99	9,390.23	139.76	68.189		
19,400.00	7,870.00	7,914.63	7,789.00	169.65	32.56	90.00	1,712.65	4,914.49	9,629.95	9,490.18	139.77	68.898		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,500.00	7,870.00	7,914.63	7,789.00	171.15	32.56	90.00	1,712.65	4,914.49	9,729.92	9,590.13	139.78	69.607	
19,600.00	7,870.00	7,914.63	7,789.00	172.66	32.56	90.00	1,712.65	4,914.49	9,829.88	9,690.09	139.80	70.316	
19,700.00	7,870.00	7,914.63	7,789.00	174.18	32.56	90.00	1,712.65	4,914.49	9,929.85	9,790.04	139.81	71.024	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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	81.80	776.52	5,387.64	5,443.92					
100.00	100.00	0.00	0.00	0.13	0.00	81.80	776.52	5,387.64	5,443.35	5,443.21	0.13	N/A		
200.00	200.00	67.24	67.24	0.49	0.11	81.80	776.85	5,387.92	5,443.88	5,443.28	0.60	9,022.407		
300.00	300.00	138.00	137.98	0.85	0.23	81.79	777.90	5,388.80	5,445.26	5,444.19	1.08	5,056.720		
400.00	399.98	164.65	164.62	1.21	0.33	13.63	778.54	5,389.36	5,445.79	5,444.26	1.53	3,566.606		
500.00	499.84	200.31	200.25	1.56	0.46	13.64	779.69	5,390.42	5,444.13	5,442.12	2.01	2,708.773		
600.00	599.45	229.00	228.89	1.93	0.56	13.65	780.87	5,391.55	5,440.27	5,437.80	2.47	2,200.937		
700.00	698.70	266.98	266.78	2.32	0.70	13.67	782.64	5,393.49	5,434.22	5,431.25	2.97	1,827.897		
800.00	797.47	320.00	319.61	2.72	0.90	13.71	785.27	5,397.12	5,426.19	5,422.65	3.53	1,535.953		
900.00	895.62	320.00	319.61	3.16	0.90	13.76	785.27	5,397.12	5,415.79	5,411.88	3.90	1,387.118		
1,000.00	993.06	373.14	372.48	3.63	1.11	13.83	788.18	5,401.68	5,403.20	5,398.72	4.48	1,206.319		
1,100.00	1,089.64	411.00	410.08	4.14	1.26	13.91	790.48	5,405.36	5,388.37	5,383.37	5.00	1,077.013		
1,200.00	1,185.27	451.91	450.66	4.70	1.42	14.00	793.30	5,409.75	5,371.29	5,365.74	5.55	967.580		
1,300.00	1,279.82	503.00	501.22	5.31	1.63	14.10	797.46	5,415.80	5,352.00	5,345.85	6.15	870.732		
1,400.00	1,373.17	530.00	527.87	5.97	1.75	14.22	799.99	5,419.25	5,330.40	5,323.74	6.67	799.682		
1,500.00	1,465.21	569.36	566.65	6.69	1.92	14.34	804.14	5,424.56	5,306.60	5,299.36	7.24	732.560		
1,600.00	1,555.84	612.52	609.04	7.47	2.12	14.48	809.34	5,430.77	5,280.57	5,272.72	7.85	672.479		
1,700.00	1,644.94	662.09	657.57	8.31	2.35	14.63	816.17	5,438.20	5,252.17	5,243.66	8.50	617.629		
1,800.00	1,732.39	708.44	702.79	9.23	2.58	14.79	823.33	5,445.44	5,221.39	5,212.23	9.16	570.017		
1,900.00	1,818.11	752.00	745.16	10.21	2.80	14.96	830.55	5,452.59	5,188.34	5,178.51	9.82	528.198		
2,000.00	1,901.97	809.31	800.69	11.26	3.09	15.15	840.72	5,462.43	5,152.97	5,142.41	10.56	487.771		
2,100.00	1,983.88	892.26	880.78	12.38	3.53	15.35	856.82	5,476.77	5,114.87	5,103.43	11.43	447.355		
2,200.00	2,063.74	988.70	973.60	13.57	4.06	15.56	877.35	5,493.01	5,073.56	5,061.17	12.39	409.376		
2,300.00	2,141.45	1,054.96	1,037.17	14.84	4.44	15.81	892.33	5,504.20	5,029.47	5,016.24	13.24	379.917		
2,327.78	2,162.65	1,075.06	1,056.41	15.21	4.55	15.88	896.99	5,507.64	5,016.76	5,003.28	13.49	371.981		
2,400.00	2,217.51	2,400.00	1,177.51	16.17	12.19	15.83	926.84	5,528.46	4,983.12	4,962.72	20.40	244.274		
2,500.00	2,293.49	1,328.30	1,299.41	17.51	5.99	15.78	955.81	5,547.89	4,935.26	4,919.66	15.60	316.287		
2,600.00	2,369.47	1,400.82	1,369.14	18.86	6.40	15.76	972.36	5,558.98	4,887.47	4,870.97	16.50	296.158		
2,700.00	2,445.45	1,467.25	1,432.87	20.22	6.79	15.73	987.96	5,569.30	4,839.99	4,822.60	17.39	278.375		
2,800.00	2,521.42	1,524.00	1,487.19	21.59	7.12	15.70	1,001.73	5,578.31	4,792.97	4,774.73	18.24	262.815		
2,900.00	2,597.40	1,585.60	1,546.02	22.97	7.49	15.66	1,016.97	5,588.42	4,746.49	4,727.36	19.12	248.227		
3,000.00	2,673.38	1,656.93	1,614.04	24.34	7.92	15.62	1,034.64	5,600.58	4,700.55	4,680.50	20.05	234.389		
3,100.00	2,749.36	1,728.75	1,730.61	25.73	8.64	15.56	1,063.17	5,621.49	4,654.56	4,633.36	21.20	219.541		
3,200.00	2,825.33	1,929.06	1,875.60	27.11	9.49	15.56	1,093.85	5,646.49	4,607.63	4,585.20	22.43	205.405		
3,300.00	2,901.31	2,058.95	2,001.91	28.50	10.18	15.61	1,116.32	5,666.80	4,559.16	4,535.61	23.55	193.620		
3,400.00	2,977.29	2,127.10	2,068.40	29.90	10.52	15.67	1,126.51	5,677.73	4,510.85	4,486.41	24.43	184.606		
3,500.00	3,053.27	2,179.00	2,119.02	31.29	10.79	15.71	1,134.05	5,686.34	4,463.02	4,437.75	25.27	176.590		
3,600.00	3,129.24	2,221.17	2,160.07	32.69	11.01	15.75	1,140.25	5,693.71	4,416.02	4,389.93	26.09	169.262		
3,700.00	3,205.22	2,272.00	2,209.37	34.08	11.28	15.79	1,148.09	5,703.31	4,370.15	4,343.21	26.94	162.205		
3,800.00	3,281.20	2,300.38	2,236.81	35.48	11.44	15.81	1,152.60	5,708.96	4,325.19	4,297.46	27.73	155.972		
3,900.00	3,357.18	2,347.66	2,282.44	36.88	11.70	15.84	1,160.25	5,718.73	4,281.19	4,252.60	28.59	149.745		
4,000.00	3,433.15	2,419.70	2,351.78	38.29	12.12	15.89	1,172.25	5,734.14	4,237.92	4,208.38	29.54	143.452		
4,100.00	3,509.13	2,496.61	2,425.72	39.69	12.56	15.93	1,185.52	5,750.66	4,194.84	4,164.33	30.52	137.458		
4,200.00	3,585.11	2,575.84	2,501.82	41.09	13.02	15.99	1,199.03	5,768.06	4,152.17	4,120.67	31.51	131.789		
4,300.00	3,661.08	2,767.50	2,686.41	42.50	14.12	16.11	1,231.74	5,807.91	4,108.47	4,075.61	32.85	125.055		
4,400.00	3,737.06	2,844.28	2,760.51	43.90	14.56	16.15	1,245.00	5,823.02	4,063.75	4,029.92	33.83	120.105		
4,500.00	3,813.04	2,947.92	2,860.42	45.31	15.15	16.21	1,263.72	5,843.24	4,019.01	3,984.10	34.90	115.151		
4,600.00	3,889.02	3,003.50	2,913.84	46.71	15.48	16.22	1,274.57	5,854.10	3,974.50	3,938.66	35.83	110.913		
4,700.00	3,964.99	3,126.82	3,032.15	48.12	16.20	16.23	1,299.79	5,878.08	3,930.06	3,893.09	36.97	106.312		
4,800.00	4,040.97	3,190.62	3,093.42	49.53	16.58	16.25	1,312.52	5,890.43	3,885.46	3,847.53	37.93	102.431		
4,900.00	4,116.95	3,285.54	3,184.66	50.94	17.13	16.28	1,330.74	5,909.27	3,841.19	3,802.21	38.98	98.532		
5,000.00	4,192.93	3,355.84	3,252.28	52.35	17.55	16.31	1,343.90	5,923.27	3,796.93	3,756.95	39.97	94.983		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,268.90	3,431.78	3,325.15	53.76	17.99	16.34	1,358.55	5,938.80	3,753.21	3,712.23	40.98	91.577		
5,200.00	4,344.88	3,526.28	3,415.77	55.16	18.56	16.36	1,377.23	5,958.07	3,709.52	3,667.47	42.04	88.229		
5,300.00	4,420.86	3,616.61	3,502.31	56.57	19.10	16.38	1,395.58	5,976.33	3,665.75	3,622.65	43.09	85.062		
5,400.00	4,496.84	3,781.55	3,660.71	57.98	20.07	16.43	1,428.07	6,008.84	3,621.73	3,577.43	44.30	81.748		
5,500.00	4,572.81	3,829.01	3,706.40	59.39	20.35	16.44	1,437.10	6,017.96	3,576.76	3,531.50	45.26	79.022		
5,600.00	4,648.79	3,896.20	3,770.97	60.81	20.74	16.47	1,449.99	6,031.35	3,532.54	3,486.28	46.27	76.349		
5,700.00	4,724.77	3,979.76	3,851.17	62.22	21.24	16.50	1,466.30	6,048.23	3,488.64	3,441.33	47.31	73.742		
5,800.00	4,800.74	4,087.89	3,955.11	63.63	21.87	16.56	1,486.40	6,070.20	3,444.75	3,396.35	48.40	71.176		
5,900.00	4,876.72	4,186.78	4,050.45	65.04	22.44	16.62	1,504.25	6,089.46	3,399.96	3,350.49	49.47	68.730		
6,000.00	4,952.70	4,273.96	4,134.33	66.45	22.94	16.67	1,520.35	6,106.94	3,355.77	3,305.25	50.52	66.422		
6,100.00	5,028.68	4,395.22	4,251.10	67.86	23.65	16.72	1,543.99	6,129.52	3,310.29	3,258.68	51.62	64.134		
6,200.00	5,104.65	4,484.94	4,337.42	69.27	24.17	16.75	1,561.82	6,146.24	3,265.04	3,212.38	52.67	61.994		
6,300.00	5,180.63	4,572.41	4,421.61	70.69	24.67	16.77	1,579.20	6,162.39	3,219.62	3,165.90	53.72	59.932		
6,400.00	5,256.61	4,706.55	4,550.53	72.10	25.46	16.79	1,607.33	6,186.54	3,174.09	3,119.29	54.80	57.925		
6,500.00	5,332.59	4,870.92	4,709.56	73.51	26.36	16.84	1,639.67	6,212.58	3,126.19	3,070.34	55.84	55.980		
6,600.00	5,408.56	4,963.11	4,798.98	74.92	26.86	16.87	1,657.61	6,226.07	3,077.31	3,020.44	56.87	54.111		
6,700.00	5,484.54	5,187.17	5,017.35	76.34	28.00	17.01	1,698.16	6,255.36	3,027.52	2,969.75	57.77	52.406		
6,800.00	5,560.52	5,278.02	5,106.81	77.75	28.41	17.16	1,710.42	6,265.28	2,974.70	2,915.91	58.78	50.603		
6,900.00	5,636.50	5,359.85	5,187.62	79.16	28.75	17.35	1,719.36	6,274.48	2,921.86	2,862.04	59.82	48.841		
7,000.00	5,712.47	5,000.00	5,253.69	80.57	33.85	18.50	1,743.26	6,301.99	2,868.01	2,803.67	64.34	44.577		
7,100.00	5,788.45	5,913.84	5,739.38	81.99	30.52	19.60	1,746.33	6,303.41	2,805.10	2,744.27	60.83	46.113		
7,200.00	5,864.43	6,001.20	5,826.73	83.40	30.71	20.10	1,746.68	6,302.13	2,741.28	2,679.45	61.84	44.332		
7,300.00	5,940.40	6,084.20	5,909.71	84.81	30.90	20.61	1,747.04	6,300.65	2,677.32	2,614.44	62.88	42.578		
7,400.00	6,016.38	6,161.87	5,987.37	86.23	31.07	21.10	1,747.41	6,299.08	2,613.31	2,549.33	63.98	40.846		
7,500.00	6,092.36	6,235.93	6,061.40	87.64	31.23	21.59	1,747.71	6,297.57	2,549.39	2,484.26	65.13	39.144		
7,600.00	6,168.34	6,309.69	6,135.15	89.05	31.40	22.11	1,747.90	6,296.13	2,485.65	2,419.34	66.32	37.481		
7,700.00	6,244.31	6,391.14	6,216.59	90.47	31.58	22.73	1,747.65	6,294.46	2,421.95	2,354.44	67.51	35.875		
7,800.00	6,320.29	6,460.30	6,285.73	91.88	31.73	23.29	1,747.07	6,293.06	2,358.39	2,289.57	68.82	34.269		
7,900.00	6,396.27	6,524.59	6,350.01	93.30	31.87	23.83	1,746.52	6,291.94	2,295.24	2,225.02	70.21	32.690		
8,000.00	6,472.25	6,588.70	6,414.12	94.71	32.02	24.38	1,746.45	6,291.16	2,232.67	2,161.02	71.65	31.161		
8,100.00	6,548.22	6,665.72	6,491.13	96.12	32.20	25.07	1,746.71	6,290.33	2,170.43	2,097.37	73.07	29.705		
8,200.00	6,624.20	6,735.24	6,560.65	97.54	32.37	25.72	1,747.05	6,289.63	2,108.47	2,033.88	74.59	28.268		
8,300.00	6,700.18	6,804.93	6,630.33	98.95	32.54	26.41	1,747.38	6,289.15	2,046.96	1,970.78	76.18	26.871		
8,400.00	6,776.16	6,875.55	6,700.94	100.37	32.72	27.14	1,747.50	6,288.85	1,985.90	1,908.07	77.84	25.514		
8,500.00	6,852.13	6,947.03	6,772.43	101.78	32.89	27.94	1,747.39	6,288.73	1,925.31	1,845.73	79.58	24.194		
8,600.00	6,928.11	7,020.60	6,845.99	103.20	33.07	28.81	1,747.05	6,288.72	1,865.15	1,783.75	81.40	22.913		
8,700.00	7,004.09	7,094.76	6,920.15	104.61	33.24	29.75	1,746.49	6,288.80	1,805.43	1,722.11	83.32	21.668		
8,800.00	7,080.06	7,168.66	6,994.05	106.02	33.42	30.75	1,745.65	6,288.92	1,746.17	1,660.81	85.36	20.456		
8,900.00	7,156.04	7,242.67	7,068.06	107.44	33.60	31.82	1,744.69	6,289.15	1,687.45	1,599.93	87.53	19.279		
9,000.00	7,232.02	7,322.55	7,147.93	108.85	33.79	33.04	1,743.74	6,289.32	1,629.16	1,539.38	89.78	18.147		
9,104.68	7,311.55	7,402.10	7,227.47	110.33	33.98	34.34	1,742.80	6,289.39	1,568.61	1,476.30	92.31	16.993		
9,150.00	7,346.29	7,436.03	7,261.40	110.97	34.07	26.50	1,742.33	6,289.41	1,542.18	1,448.83	93.35	16.520		
9,200.00	7,385.15	7,473.16	7,298.53	111.65	34.16	17.20	1,741.75	6,289.47	1,512.30	1,418.03	94.28	16.041		
9,250.00	7,424.29	7,510.66	7,336.02	112.31	34.25	7.40	1,741.08	6,289.55	1,481.83	1,386.90	94.93	15.610		
9,300.00	7,463.40	7,548.00	7,373.36	112.93	34.34	-2.68	1,740.38	6,289.68	1,450.93	1,355.65	95.29	15.227		
9,350.00	7,502.19	7,585.16	7,410.50	113.51	34.43	-12.83	1,739.69	6,289.85	1,419.86	1,324.52	95.33	14.894		
9,400.00	7,540.36	7,622.15	7,447.48	114.04	34.52	-22.82	1,739.02	6,290.08	1,388.85	1,293.81	95.04	14.614		
9,450.00	7,577.62	7,658.83	7,484.16	114.53	34.61	-32.45	1,738.36	6,290.34	1,358.19	1,263.80	94.39	14.389		
9,500.00	7,613.70	7,694.45	7,519.78	114.95	34.70	-41.57	1,737.74	6,290.61	1,328.24	1,234.84	93.40	14.221		
9,550.00	7,648.30	7,726.70	7,552.02	115.32	34.78	-49.97	1,737.19	6,290.91	1,299.39	1,207.33	92.07	14.113		
9,600.00	7,681.18	7,756.96	7,582.27	115.63	34.86	-57.60	1,736.69	6,291.27	1,272.12	1,181.71	90.41	14.071 SF		
9,650.00	7,712.08	7,785.55	7,610.85	115.88	34.93	-64.42	1,736.23	6,291.68	1,246.87	1,158.43	88.44	14.098		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,700.00	7,740.76	7,814.29	7,639.59	116.08	35.01	-70.48	1,735.78	6,292.15	1,224.08	1,137.90	86.19	14.202		
9,750.00	7,767.01	7,842.01	7,667.30	116.23	35.08	-75.76	1,735.30	6,292.60	1,204.19	1,120.46	83.73	14.382		
9,800.00	7,790.63	7,867.17	7,692.46	116.33	35.14	-80.22	1,734.82	6,293.00	1,187.64	1,106.46	81.18	14.629		
9,850.00	7,811.44	7,889.59	7,714.87	116.38	35.20	-83.87	1,734.36	6,293.35	1,174.89	1,096.21	78.68	14.933		
9,900.00	7,829.28	7,908.18	7,733.45	116.38	35.25	-86.69	1,733.97	6,293.64	1,166.32	1,089.94	76.38	15.270		
9,950.00	7,844.01	7,923.71	7,748.97	116.35	35.29	-88.74	1,733.65	6,293.88	1,162.24	1,087.81	74.44	15.614	ES	
9,968.45	7,848.63	7,928.63	7,753.90	116.32	35.30	-89.30	1,733.55	6,293.96	1,161.92	1,088.08	73.84	15.735	CC	
10,000.00	7,855.52	7,936.03	7,761.29	116.28	35.32	-90.03	1,733.41	6,294.08	1,162.87	1,089.87	73.00	15.930		
10,050.00	7,863.72	7,945.07	7,770.33	116.18	35.34	-90.57	1,733.23	6,294.22	1,168.29	1,096.12	72.17	16.187		
10,100.00	7,868.56	7,950.77	7,776.03	116.06	35.36	-90.35	1,733.12	6,294.31	1,178.48	1,106.49	71.99	16.370		
10,145.94	7,870.00	7,953.04	7,778.30	115.92	35.37	-89.45	1,733.08	6,294.35	1,191.91	1,119.57	72.35	16.475		
10,200.00	7,870.00	7,954.04	7,779.29	115.76	35.37	-89.51	1,733.06	6,294.37	1,211.02	1,137.68	73.33	16.514		
10,300.00	7,870.00	7,955.87	7,781.12	115.46	35.37	-89.60	1,733.03	6,294.39	1,251.75	1,175.34	76.41	16.382		
10,400.00	7,870.00	7,957.69	7,782.94	115.18	35.38	-89.69	1,732.99	6,294.42	1,298.92	1,218.41	80.51	16.134		
10,500.00	7,870.00	7,959.50	7,784.75	114.91	35.38	-89.78	1,732.96	6,294.45	1,351.84	1,266.77	85.07	15.891		
10,600.00	7,870.00	7,961.29	7,786.55	114.65	35.39	-89.87	1,732.92	6,294.48	1,409.89	1,320.16	89.73	15.713		
10,700.00	7,870.00	7,963.08	7,788.33	114.41	35.39	-89.97	1,732.89	6,294.51	1,472.44	1,378.17	94.26	15.621		
10,800.00	7,870.00	7,964.85	7,790.10	114.17	35.40	-90.06	1,732.86	6,294.54	1,538.94	1,440.39	98.56	15.615		
10,900.00	7,870.00	7,966.61	7,791.86	113.95	35.40	-90.15	1,732.83	6,294.57	1,608.92	1,506.36	102.55	15.688		
11,000.00	7,870.00	7,968.36	7,793.61	113.75	35.40	-90.23	1,732.79	6,294.60	1,681.93	1,575.69	106.24	15.831		
11,100.00	7,870.00	7,970.10	7,795.35	113.55	35.41	-90.32	1,732.76	6,294.63	1,757.60	1,647.98	109.62	16.034		
11,200.00	7,870.00	7,971.82	7,797.07	113.37	35.41	-90.41	1,732.73	6,294.65	1,835.59	1,722.90	112.70	16.288		
11,300.00	7,870.00	7,973.54	7,798.79	113.20	35.42	-90.50	1,732.70	6,294.68	1,915.63	1,800.13	115.50	16.585		
11,400.00	7,870.00	7,975.24	7,800.49	113.04	35.42	-90.59	1,732.67	6,294.71	1,997.47	1,879.41	118.06	16.920		
11,500.00	7,870.00	7,976.94	7,802.18	112.89	35.43	-90.67	1,732.64	6,294.74	2,080.90	1,960.51	120.38	17.286		
11,600.00	7,870.00	7,978.62	7,803.87	112.76	35.43	-90.76	1,732.61	6,294.77	2,165.72	2,043.22	122.51	17.679		
11,700.00	7,870.00	7,980.29	7,805.54	112.64	35.44	-90.84	1,732.57	6,294.79	2,251.79	2,127.35	124.44	18.095		
11,800.00	7,870.00	7,981.95	7,807.20	112.53	35.44	-90.93	1,732.54	6,294.82	2,338.97	2,212.76	126.21	18.532		
11,900.00	7,870.00	7,983.66	7,808.91	112.44	35.44	-91.01	1,732.51	6,294.85	2,427.14	2,299.31	127.83	18.987		
12,000.00	7,870.00	7,985.47	7,810.72	112.36	35.45	-91.11	1,732.48	6,294.88	2,516.19	2,386.87	129.32	19.457		
12,100.00	7,870.00	7,987.30	7,812.54	112.29	35.45	-91.20	1,732.45	6,294.91	2,606.03	2,475.34	130.69	19.940		
12,200.00	7,870.00	7,989.13	7,814.38	112.24	35.46	-91.29	1,732.42	6,294.94	2,696.59	2,564.64	131.95	20.436		
12,300.00	7,870.00	7,990.98	7,816.22	112.20	35.46	-91.39	1,732.38	6,294.97	2,787.79	2,654.68	133.12	20.942		
12,400.00	7,870.00	7,992.84	7,818.08	112.17	35.47	-91.48	1,732.35	6,295.00	2,879.58	2,745.38	134.20	21.458		
12,500.00	7,870.00	7,994.71	7,819.95	112.16	35.47	-91.58	1,732.31	6,295.04	2,971.89	2,836.70	135.20	21.982		
12,600.00	7,870.00	7,996.59	7,821.83	112.17	35.48	-91.67	1,732.28	6,295.07	3,064.69	2,928.56	136.12	22.514		
12,700.00	7,870.00	7,998.48	7,823.72	112.19	35.48	-91.77	1,732.24	6,295.10	3,157.92	3,020.93	136.99	23.052		
12,800.00	7,870.00	8,000.38	7,825.62	112.23	35.49	-91.87	1,732.21	6,295.13	3,251.56	3,113.76	137.80	23.597		
12,900.00	7,870.00	8,002.29	7,827.53	112.28	35.49	-91.96	1,732.17	6,295.17	3,345.56	3,207.01	138.55	24.147		
13,000.00	7,870.00	8,004.22	7,829.46	112.36	35.50	-92.06	1,732.14	6,295.20	3,439.90	3,300.64	139.25	24.702		
13,100.00	7,870.00	8,006.16	7,831.40	112.45	35.50	-92.16	1,732.10	6,295.24	3,534.55	3,394.63	139.92	25.262		
13,200.00	7,870.00	8,008.11	7,833.35	112.56	35.51	-92.26	1,732.07	6,295.27	3,629.48	3,488.95	140.54	25.826		
13,300.00	7,870.00	8,010.07	7,835.31	112.68	35.51	-92.36	1,732.03	6,295.30	3,724.68	3,583.56	141.12	26.393		
13,400.00	7,870.00	8,012.05	7,837.28	112.83	35.52	-92.46	1,731.99	6,295.34	3,820.13	3,678.45	141.67	26.965		
13,500.00	7,870.00	8,014.04	7,839.27	113.00	35.52	-92.56	1,731.95	6,295.38	3,915.80	3,773.61	142.19	27.539		
13,600.00	7,870.00	8,016.04	7,841.27	113.19	35.53	-92.66	1,731.92	6,295.41	4,011.68	3,869.00	142.68	28.116		
13,700.00	7,870.00	8,018.05	7,843.28	113.40	35.53	-92.76	1,731.88	6,295.45	4,107.75	3,964.61	143.15	28.696		
13,800.00	7,870.00	8,020.07	7,845.31	113.63	35.54	-92.87	1,731.84	6,295.49	4,204.01	4,060.42	143.59	29.278		
13,900.00	7,870.00	8,022.11	7,847.34	113.89	35.54	-92.97	1,731.80	6,295.52	4,300.44	4,156.43	144.01	29.863		
14,000.00	7,870.00	8,024.16	7,849.39	114.18	35.55	-93.07	1,731.76	6,295.56	4,397.03	4,252.62	144.40	30.449		
14,100.00	7,870.00	8,026.23	7,851.46	114.48	35.56	-93.18	1,731.72	6,295.60	4,493.76	4,348.98	144.78	31.038		
14,200.00	7,870.00	8,028.30	7,853.53	114.82	35.56	-93.28	1,731.68	6,295.64	4,590.64	4,445.50	145.14	31.629		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,300.00	7,870.00	8,030.39	7,855.62	115.18	35.57	-93.39	1,731.64	6,295.68	4,687.64	4,542.16	145.49	32.221		
14,400.00	7,870.00	8,032.50	7,857.73	115.57	35.57	-93.50	1,731.60	6,295.72	4,784.77	4,638.96	145.81	32.814		
14,500.00	7,870.00	8,034.62	7,859.85	115.99	35.58	-93.60	1,731.56	6,295.76	4,882.01	4,735.89	146.13	33.409		
14,600.00	7,870.00	8,036.75	7,861.98	116.44	35.58	-93.71	1,731.52	6,295.80	4,979.36	4,832.94	146.43	34.006		
14,700.00	7,870.00	8,038.89	7,864.12	116.92	35.59	-93.82	1,731.47	6,295.84	5,076.82	4,930.10	146.71	34.603		
14,800.00	7,870.00	8,041.05	7,866.28	117.44	35.59	-93.93	1,731.43	6,295.88	5,174.37	5,027.38	146.99	35.202		
14,900.00	7,870.00	8,043.23	7,868.45	117.98	35.60	-94.04	1,731.39	6,295.93	5,272.01	5,124.75	147.25	35.802		
15,000.00	7,870.00	8,045.41	7,870.64	118.56	35.61	-94.15	1,731.35	6,295.97	5,369.73	5,222.23	147.51	36.403		
15,100.00	7,870.00	8,047.62	7,872.84	119.17	35.61	-94.26	1,731.30	6,296.01	5,467.54	5,319.79	147.75	37.005		
15,200.00	7,870.00	8,049.83	7,875.06	119.81	35.62	-94.37	1,731.26	6,296.06	5,565.43	5,417.44	147.99	37.608		
15,300.00	7,870.00	8,052.07	7,877.29	120.48	35.62	-94.49	1,731.21	6,296.10	5,663.38	5,515.17	148.21	38.211		
15,400.00	7,870.00	8,054.31	7,879.53	121.19	35.63	-94.60	1,731.17	6,296.15	5,761.41	5,612.98	148.43	38.815		
15,500.00	7,870.00	8,056.57	7,881.79	121.93	35.64	-94.71	1,731.12	6,296.19	5,859.51	5,710.86	148.64	39.420		
15,600.00	7,870.00	8,058.85	7,884.07	122.71	35.64	-94.83	1,731.08	6,296.24	5,957.66	5,808.82	148.84	40.026		
15,700.00	7,870.00	8,061.14	7,886.36	123.52	35.65	-94.94	1,731.03	6,296.28	6,055.88	5,906.84	149.04	40.632		
15,800.00	7,870.00	8,063.45	7,888.67	124.36	35.65	-95.06	1,730.98	6,296.33	6,154.15	6,004.92	149.23	41.239		
15,900.00	7,870.00	8,065.77	7,890.99	125.23	35.66	-95.18	1,730.94	6,296.38	6,252.48	6,103.06	149.41	41.846		
16,000.00	7,870.00	8,068.11	7,893.33	126.14	35.67	-95.29	1,730.89	6,296.43	6,350.85	6,201.26	149.59	42.454		
16,100.00	7,870.00	8,070.47	7,895.68	127.07	35.67	-95.41	1,730.84	6,296.48	6,449.28	6,299.51	149.77	43.063		
16,200.00	7,870.00	8,072.84	7,898.05	128.04	35.68	-95.53	1,730.79	6,296.53	6,547.75	6,397.82	149.93	43.671		
16,300.00	7,870.00	8,075.23	7,900.44	129.04	35.68	-95.65	1,730.74	6,296.58	6,646.27	6,496.18	150.10	44.280		
16,400.00	7,870.00	8,077.63	7,902.84	130.06	35.69	-95.77	1,730.69	6,296.63	6,744.83	6,594.58	150.25	44.890		
16,500.00	7,870.00	8,080.05	7,905.26	131.11	35.70	-95.90	1,730.64	6,296.68	6,843.44	6,693.03	150.41	45.499		
16,600.00	7,870.00	8,082.49	7,907.70	132.19	35.70	-96.02	1,730.59	6,296.73	6,942.08	6,791.52	150.56	46.110		
16,700.00	7,870.00	8,084.94	7,910.15	133.29	35.71	-96.14	1,730.54	6,296.79	7,040.76	6,890.06	150.70	46.720		
16,800.00	7,870.00	8,087.41	7,912.62	134.42	35.72	-96.26	1,730.49	6,296.84	7,139.47	6,988.63	150.84	47.330		
16,900.00	7,870.00	8,089.90	7,915.11	135.57	35.72	-96.39	1,730.43	6,296.89	7,238.22	7,087.24	150.98	47.941		
17,000.00	7,870.00	8,092.41	7,917.61	136.75	35.73	-96.51	1,730.38	6,296.95	7,337.01	7,185.89	151.12	48.552		
17,100.00	7,870.00	8,094.93	7,920.14	137.94	35.74	-96.64	1,730.33	6,297.00	7,435.82	7,284.58	151.25	49.164		
17,200.00	7,870.00	8,097.46	7,922.69	139.16	35.75	-96.77	1,730.28	6,297.05	7,534.69	7,383.34	151.36	49.781		
17,300.00	7,870.00	8,099.99	7,925.23	140.39	35.75	-96.89	1,730.23	6,297.10	7,633.57	7,482.10	151.48	50.393		
17,400.00	7,870.00	8,089.40	7,914.61	141.65	35.72	-96.36	1,730.46	6,296.87	7,732.47	7,580.85	151.61	51.002		
17,500.00	7,870.00	8,090.57	7,915.78	142.92	35.72	-96.42	1,730.43	6,296.90	7,831.40	7,679.67	151.73	51.614		
17,600.00	7,870.00	8,091.73	7,916.93	144.21	35.73	-96.48	1,730.41	6,296.92	7,930.36	7,778.52	151.84	52.227		
17,700.00	7,870.00	8,092.87	7,918.08	145.52	35.73	-96.54	1,730.39	6,296.94	8,029.35	7,877.39	151.96	52.840		
17,800.00	7,870.00	8,094.01	7,919.21	146.84	35.73	-96.60	1,730.37	6,296.96	8,128.36	7,976.29	152.07	53.452		
17,900.00	7,870.00	8,095.13	7,920.33	148.18	35.74	-96.65	1,730.35	6,296.99	8,227.39	8,075.22	152.18	54.065		
18,000.00	7,870.00	8,096.23	7,921.44	149.54	35.74	-96.71	1,730.32	6,297.01	8,326.45	8,174.17	152.28	54.678		
18,100.00	7,870.00	8,097.33	7,922.53	150.90	35.74	-96.76	1,730.30	6,297.03	8,425.53	8,273.14	152.38	55.291		
18,200.00	7,870.00	8,098.41	7,923.62	152.28	35.75	-96.82	1,730.28	6,297.05	8,524.63	8,372.14	152.49	55.904		
18,300.00	7,870.00	8,099.48	7,924.69	153.67	35.75	-96.87	1,730.26	6,297.07	8,623.75	8,471.16	152.59	56.518		
18,400.00	7,870.00	8,100.54	7,925.75	155.07	35.75	-96.92	1,730.24	6,297.09	8,722.89	8,570.21	152.68	57.131		
18,500.00	7,870.00	8,101.59	7,926.79	156.49	35.75	-96.97	1,730.22	6,297.12	8,822.05	8,669.27	152.78	57.744		
18,600.00	7,870.00	8,102.63	7,927.83	157.91	35.76	-97.03	1,730.21	6,297.14	8,921.23	8,768.35	152.87	58.357		
18,700.00	7,870.00	8,103.66	7,928.86	159.35	35.76	-97.08	1,730.19	6,297.16	9,020.42	8,867.46	152.97	58.970		
18,800.00	7,870.00	8,104.67	7,929.87	160.79	35.76	-97.13	1,730.17	6,297.17	9,119.64	8,966.58	153.06	59.584		
18,900.00	7,870.00	8,105.68	7,930.88	162.25	35.77	-97.18	1,730.15	6,297.19	9,218.87	9,065.72	153.14	60.197		
19,000.00	7,870.00	8,106.67	7,931.87	163.71	35.77	-97.23	1,730.13	6,297.21	9,318.11	9,164.88	153.23	60.810		
19,100.00	7,870.00	8,107.65	7,932.85	165.18	35.77	-97.28	1,730.12	6,297.23	9,417.38	9,264.06	153.32	61.423		
19,200.00	7,870.00	8,108.63	7,933.83	166.66	35.77	-97.33	1,730.10	6,297.25	9,516.65	9,363.25	153.40	62.037		
19,300.00	7,870.00	8,109.59	7,934.79	168.15	35.78	-97.37	1,730.08	6,297.27	9,615.95	9,462.46	153.49	62.650		
19,400.00	7,870.00	8,110.55	7,935.74	169.65	35.78	-97.42	1,730.06	6,297.29	9,715.25	9,561.68	153.57	63.263		

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

Anticollision Report

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

Offset Design		SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 8-0-23 - OWB - FINAL SURVEY										Offset Site Error:	0.00 usft
Survey Program:		138-MWD OWSG										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,500.00	7,870.00	8,111.49	7,936.69	171.15	35.78	-97.47	1,730.05	6,297.31	9,814.57	9,660.92	153.65	63.876	
19,600.00	7,870.00	8,112.42	7,937.62	172.66	35.78	-97.52	1,730.03	6,297.32	9,913.91	9,760.18	153.73	64.489	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
0.00	0.00	0.00	0.00	0.00	0.00	81.89	765.59	5,370.84	5,425.73					
100.00	100.00	40.08	40.08	0.13	0.05	81.89	765.63	5,370.76	5,425.10	5,424.91	0.19	N/A		
200.00	200.00	138.00	138.00	0.49	0.39	81.88	765.77	5,370.20	5,424.56	5,423.68	0.88	6,165.788		
267.24	267.24	187.24	187.24	0.73	0.56	81.89	765.52	5,370.07	5,424.36	5,423.07	1.29	4,199.436		
300.00	300.00	205.98	205.98	0.85	0.62	81.89	765.27	5,370.13	5,424.40	5,422.93	1.47	3,679.609		
400.00	399.98	229.00	228.99	1.21	0.70	13.75	764.85	5,370.29	5,423.55	5,421.64	1.91	2,841.368		
500.00	499.84	275.40	275.36	1.56	0.87	13.79	763.69	5,371.21	5,420.38	5,417.95	2.43	2,234.851		
600.00	599.45	320.00	319.90	1.93	1.02	13.84	762.19	5,373.08	5,415.30	5,412.37	2.94	1,843.417		
700.00	698.70	320.00	319.90	2.32	1.02	13.88	762.19	5,373.08	5,408.05	5,404.75	3.30	1,638.862		
800.00	797.47	370.44	370.20	2.72	1.21	13.97	759.98	5,376.21	5,398.59	5,394.74	3.85	1,403.079		
900.00	895.62	411.00	410.56	3.16	1.36	14.07	757.73	5,379.44	5,387.03	5,382.67	4.36	1,234.367		
1,000.00	993.06	442.76	442.12	3.63	1.47	14.19	755.69	5,382.38	5,373.26	5,368.40	4.86	1,105.448		
1,100.00	1,089.64	502.00	500.85	4.14	1.70	14.37	751.22	5,388.71	5,357.38	5,351.91	5.47	979.682		
1,200.00	1,185.27	502.00	500.85	4.70	1.70	14.46	751.22	5,388.71	5,339.15	5,333.29	5.86	910.917		
1,300.00	1,279.82	548.27	546.60	5.31	1.89	14.65	747.44	5,394.49	5,318.80	5,312.35	6.44	825.325		
1,400.00	1,373.17	593.00	590.73	5.97	2.08	14.86	743.86	5,400.86	5,296.48	5,289.44	7.03	753.117		
1,500.00	1,465.21	593.00	590.73	6.69	2.08	14.99	743.86	5,400.86	5,272.09	5,264.63	7.46	706.863		
1,600.00	1,555.84	645.35	642.24	7.47	2.31	15.26	739.66	5,409.24	5,245.47	5,237.37	8.11	647.054		
1,700.00	1,644.94	684.00	680.14	8.31	2.48	15.52	736.47	5,416.04	5,216.90	5,208.19	8.71	598.675		
1,800.00	1,732.39	718.38	713.82	9.23	2.64	15.78	733.80	5,422.45	5,186.21	5,176.89	9.32	556.436		
1,900.00	1,818.11	776.00	770.21	10.21	2.91	16.13	730.21	5,433.71	5,153.39	5,143.35	10.04	513.505		
2,000.00	1,901.97	806.63	800.15	11.26	3.06	16.42	728.56	5,439.95	5,118.25	5,107.59	10.66	480.116		
2,100.00	1,983.88	870.00	861.98	12.38	3.36	16.84	724.93	5,453.36	5,080.92	5,069.49	11.43	444.416		
2,200.00	2,063.74	922.91	913.53	13.57	3.63	17.27	721.91	5,464.87	5,041.14	5,028.95	12.19	413.582		
2,300.00	2,141.45	1,007.28	995.75	14.84	4.05	17.83	717.66	5,483.33	4,998.68	4,985.60	13.08	382.182		
2,327.78	2,162.65	1,033.73	1,021.54	15.21	4.18	18.01	716.44	5,489.09	4,986.36	4,973.01	13.35	373.597		
2,400.00	2,217.51	1,099.58	1,085.75	16.17	4.51	18.24	713.55	5,503.38	4,954.03	4,940.01	14.02	353.254		
2,500.00	2,293.49	1,186.25	1,170.29	17.51	4.95	18.54	709.91	5,522.14	4,909.32	4,894.37	14.96	328.260		
2,600.00	2,369.47	1,262.46	1,244.57	18.86	5.35	18.82	705.94	5,538.73	4,864.80	4,848.93	15.86	306.644		
2,700.00	2,445.45	1,322.43	1,302.90	20.22	5.66	19.05	702.09	5,552.08	4,820.76	4,804.03	16.73	288.166		
2,800.00	2,521.42	1,396.27	1,374.61	21.59	6.06	19.35	696.72	5,568.87	4,777.25	4,759.58	17.67	270.378		
2,900.00	2,597.40	1,464.52	1,440.85	22.97	6.43	19.63	691.75	5,584.51	4,734.08	4,715.48	18.60	254.510		
3,000.00	2,673.38	1,526.00	1,500.46	24.34	6.76	19.89	687.44	5,598.93	4,691.52	4,672.00	19.52	240.362		
3,100.00	2,749.36	1,582.90	1,555.56	25.73	7.08	20.12	683.46	5,612.59	4,649.63	4,629.20	20.43	227.562		
3,200.00	2,825.33	1,706.07	1,674.75	27.11	7.77	20.65	674.69	5,642.38	4,608.19	4,586.55	21.63	212.998		
3,300.00	2,901.31	1,794.52	1,760.53	28.50	8.26	21.03	668.77	5,663.11	4,566.14	4,543.44	22.70	201.123		
3,400.00	2,977.29	1,875.61	1,839.18	29.90	8.71	21.38	663.55	5,682.16	4,524.34	4,500.59	23.75	190.470		
3,500.00	3,053.27	1,994.33	1,954.44	31.29	9.36	21.89	656.89	5,709.80	4,482.57	4,457.60	24.96	179.575		
3,600.00	3,129.24	2,077.89	2,035.69	32.69	9.81	22.25	652.96	5,728.91	4,440.57	4,414.53	26.04	170.547		
3,700.00	3,205.22	2,169.24	2,124.52	34.08	10.30	22.64	648.61	5,749.78	4,398.73	4,371.58	27.16	161.974		
3,800.00	3,281.20	2,247.11	2,200.19	35.48	10.72	23.00	644.10	5,767.58	4,357.09	4,328.84	28.25	154.255		
3,900.00	3,357.18	2,341.34	2,291.66	36.88	11.24	23.45	637.38	5,789.20	4,315.72	4,286.30	29.42	146.680		
4,000.00	3,433.15	2,452.25	2,399.44	38.29	11.85	24.00	629.57	5,814.16	4,274.19	4,243.51	30.68	139.307		
4,100.00	3,509.13	2,507.69	2,453.31	39.69	12.15	24.28	625.52	5,826.62	4,232.87	4,201.13	31.73	133.383		
4,200.00	3,585.11	2,562.78	2,506.73	41.09	12.46	24.56	621.57	5,839.47	4,192.48	4,159.68	32.80	127.819		
4,300.00	3,661.08	4,300.00	2,645.40	42.50	21.85	25.27	612.69	5,872.31	4,152.03	4,111.37	40.66	102.107		
4,400.00	3,737.06	2,862.85	2,798.97	43.90	14.07	26.08	603.89	5,905.12	4,109.41	4,073.70	35.71	115.068		
4,500.00	3,813.04	2,895.28	2,830.59	45.31	14.24	26.25	601.80	5,912.01	4,067.88	4,031.14	36.74	110.719		
4,600.00	3,889.02	2,928.00	2,862.38	46.71	14.41	26.43	599.39	5,919.36	4,027.72	3,989.93	37.78	106.601		
4,700.00	3,964.99	3,015.30	2,947.11	48.12	14.90	26.91	593.49	5,939.55	3,988.36	3,949.30	39.07	102.094		
4,800.00	4,040.97	3,113.27	3,042.28	49.53	15.43	27.43	588.21	5,962.16	3,949.13	3,908.73	40.40	97.755		
4,900.00	4,116.95	3,200.75	3,127.30	50.94	15.91	27.92	583.22	5,982.18	3,910.00	3,868.29	41.71	93.740		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,192.93	3,319.25	3,242.58	52.35	16.55	28.59	576.18	6,008.69	3,870.68	3,827.51	43.17	89.661		
5,100.00	4,268.90	3,387.19	3,308.71	53.76	16.92	28.97	572.70	6,023.87	3,831.57	3,787.13	44.44	86.217		
5,200.00	4,344.88	3,454.94	3,374.58	55.16	17.29	29.36	569.23	6,039.33	3,793.14	3,747.41	45.73	82.943		
5,300.00	4,420.86	3,528.15	3,445.66	56.57	17.69	29.80	564.60	6,056.27	3,755.40	3,708.33	47.07	79.775		
5,400.00	4,496.84	3,626.22	3,540.78	57.98	18.24	30.42	557.08	6,078.90	3,718.11	3,669.55	48.56	76.568		
5,500.00	4,572.81	3,760.93	3,671.80	59.39	18.97	31.28	547.77	6,108.79	3,680.24	3,630.02	50.22	73.287		
5,600.00	4,648.79	3,884.30	3,792.16	60.81	19.62	32.07	540.39	6,134.84	3,641.65	3,589.82	51.83	70.257		
5,700.00	4,724.77	3,969.28	3,875.18	62.22	20.06	32.60	536.73	6,152.61	3,603.02	3,549.72	53.30	67.595		
5,800.00	4,800.74	4,038.65	3,942.91	63.63	20.42	33.05	533.73	6,167.30	3,564.94	3,510.20	54.74	65.128		
5,900.00	4,876.72	4,109.63	4,012.14	65.04	20.79	33.52	530.08	6,182.54	3,527.58	3,471.37	56.21	62.757		
6,000.00	4,952.70	4,352.85	4,250.16	66.45	22.02	35.17	518.86	6,231.12	3,489.89	3,431.53	58.36	59.801		
6,100.00	5,028.68	4,591.24	4,485.62	67.86	23.07	36.90	509.02	6,266.90	3,447.41	3,387.01	60.41	57.069		
6,200.00	5,104.65	5,134.69	5,027.43	69.27	24.85	41.21	501.03	6,300.22	3,396.08	3,333.50	62.58	54.266		
6,300.00	5,180.63	5,219.63	5,112.38	70.69	25.06	41.94	501.58	6,300.11	3,341.92	3,277.79	64.13	52.109		
6,400.00	5,256.61	5,297.94	5,190.68	72.10	25.25	42.64	501.97	6,299.88	3,288.07	3,222.35	65.72	50.030		
6,500.00	5,332.59	5,379.00	5,271.74	73.51	25.44	43.38	502.65	6,299.64	3,234.56	3,167.22	67.35	48.029		
6,600.00	5,408.56	5,469.17	5,361.91	74.92	25.66	44.22	503.66	6,299.13	3,181.23	3,112.23	69.00	46.105		
6,700.00	5,484.54	5,544.43	5,437.16	76.34	25.84	44.94	504.55	6,298.57	3,128.20	3,057.50	70.70	44.243		
6,800.00	5,560.52	5,621.73	5,514.45	77.75	26.03	45.70	505.43	6,297.95	3,075.61	3,003.16	72.45	42.451		
6,900.00	5,636.50	5,702.52	5,595.24	79.16	26.22	46.53	506.24	6,297.20	3,023.45	2,949.21	74.24	40.725		
7,000.00	5,712.47	5,786.06	5,678.76	80.57	26.43	47.41	506.80	6,296.14	2,971.64	2,895.56	76.08	39.061		
7,100.00	5,788.45	5,870.72	5,763.41	81.99	26.63	48.33	507.40	6,294.80	2,920.16	2,842.20	77.96	37.457		
7,200.00	5,864.43	5,953.25	5,845.92	83.40	26.83	49.26	507.96	6,293.22	2,869.04	2,789.14	79.90	35.910		
7,300.00	5,940.40	6,032.07	5,924.72	84.81	27.01	50.18	508.44	6,291.54	2,818.41	2,736.52	81.89	34.418		
7,400.00	6,016.38	6,102.23	5,994.87	86.23	27.18	51.01	508.89	6,290.08	2,768.47	2,684.53	83.94	32.981		
7,500.00	6,092.36	6,172.38	6,065.00	87.64	27.36	51.87	509.28	6,288.71	2,719.34	2,633.29	86.05	31.602		
7,600.00	6,168.34	6,245.56	6,138.17	89.05	27.54	52.79	509.42	6,287.29	2,671.07	2,582.86	88.21	30.280		
7,700.00	6,244.31	6,317.26	6,209.85	90.47	27.71	53.72	509.41	6,285.83	2,623.59	2,533.15	90.44	29.009		
7,800.00	6,320.29	6,377.80	6,270.38	91.88	27.87	54.53	509.25	6,284.80	2,577.24	2,484.51	92.73	27.793		
7,900.00	6,396.27	6,431.78	6,324.36	93.30	28.01	55.26	509.03	6,284.22	2,532.27	2,437.19	95.08	26.632		
8,000.00	6,472.25	6,488.00	6,380.58	94.71	28.16	56.03	508.81	6,284.23	2,488.93	2,391.45	97.48	25.532		
8,100.00	6,548.22	6,538.24	6,430.81	96.12	28.31	56.72	508.59	6,284.75	2,447.24	2,347.31	99.93	24.490		
8,200.00	6,624.20	6,607.15	6,499.71	97.54	28.52	57.69	508.14	6,286.03	2,407.20	2,304.78	102.42	23.504		
8,300.00	6,700.18	6,708.83	6,601.39	98.95	28.82	59.16	507.56	6,287.07	2,367.61	2,262.64	104.97	22.555		
8,400.00	6,776.16	6,789.33	6,681.88	100.37	29.05	60.36	507.14	6,287.48	2,328.82	2,221.25	107.57	21.650		
8,500.00	6,852.13	6,870.49	6,763.04	101.78	29.28	61.60	506.62	6,287.64	2,291.04	2,180.83	110.21	20.788		
8,600.00	6,928.11	6,945.89	6,838.44	103.20	29.49	62.79	506.10	6,287.68	2,254.45	2,141.55	112.90	19.969		
8,700.00	7,004.09	7,013.26	6,905.80	104.61	29.69	63.87	505.56	6,287.79	2,219.29	2,103.66	115.62	19.194		
8,800.00	7,080.06	7,085.54	6,978.08	106.02	29.90	65.05	504.80	6,288.13	2,185.79	2,067.40	118.38	18.464		
8,900.00	7,156.04	7,163.48	7,056.02	107.44	30.12	66.35	504.00	6,288.44	2,153.68	2,032.51	121.17	17.773		
9,000.00	7,232.02	7,236.81	7,129.34	108.85	30.34	67.59	503.21	6,288.74	2,123.12	1,999.13	123.98	17.124		
9,104.68	7,311.55	7,319.82	7,212.34	110.33	30.58	69.03	502.17	6,288.92	2,092.79	1,965.84	126.95	16.486		
9,150.00	7,346.29	7,355.18	7,247.71	110.97	30.68	63.49	501.68	6,288.91	2,078.83	1,950.64	128.19	16.217		
9,200.00	7,385.15	7,394.50	7,287.02	111.65	30.80	56.82	501.17	6,288.91	2,060.69	1,931.23	129.46	15.918		
9,250.00	7,424.29	7,434.17	7,326.69	112.31	30.91	49.70	500.68	6,288.92	2,039.70	1,909.09	130.61	15.617		
9,300.00	7,463.40	7,473.90	7,366.41	112.93	31.03	42.27	500.22	6,288.95	2,015.94	1,884.30	131.64	15.315		
9,350.00	7,502.19	7,513.36	7,405.87	113.51	31.14	34.66	499.79	6,288.98	1,989.48	1,856.95	132.53	15.012		
9,400.00	7,540.36	7,553.98	7,446.48	114.04	31.26	27.01	499.39	6,289.03	1,960.45	1,827.16	133.29	14.708		
9,450.00	7,577.62	7,593.78	7,486.29	114.53	31.38	19.30	499.06	6,289.06	1,928.97	1,795.07	133.90	14.406		
9,500.00	7,613.70	7,629.65	7,522.16	114.95	31.48	11.47	498.81	6,289.09	1,895.24	1,760.88	134.36	14.106		
9,550.00	7,648.30	7,662.32	7,554.82	115.32	31.58	3.45	498.59	6,289.18	1,859.56	1,724.90	134.66	13.809		
9,600.00	7,681.18	7,693.46	7,585.96	115.63	31.67	-4.85	498.39	6,289.32	1,822.17	1,687.36	134.80	13.517		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,650.00	7,712.08	7,724.01	7,616.52	115.88	31.76	-13.57	498.20	6,289.50	1,783.35	1,648.57	134.78	13.232		
9,700.00	7,740.76	7,753.05	7,645.55	116.08	31.85	-22.77	498.01	6,289.68	1,743.39	1,608.81	134.58	12.955		
9,750.00	7,767.01	7,779.66	7,672.16	116.23	31.93	-32.40	497.85	6,289.84	1,702.64	1,568.44	134.19	12.688		
9,800.00	7,790.63	7,803.64	7,696.14	116.33	32.01	-42.23	497.70	6,289.99	1,661.49	1,527.87	133.62	12.435		
9,850.00	7,811.44	7,824.05	7,716.55	116.38	32.07	-51.86	497.57	6,290.12	1,620.35	1,487.51	132.85	12.197		
9,900.00	7,829.28	7,841.74	7,734.24	116.38	32.12	-60.90	497.46	6,290.24	1,579.68	1,447.82	131.86	11.980		
9,950.00	7,844.01	7,856.43	7,748.92	116.35	32.17	-68.98	497.36	6,290.35	1,539.93	1,409.26	130.67	11.785		
10,000.00	7,855.52	7,867.98	7,760.48	116.28	32.20	-75.90	497.29	6,290.43	1,501.58	1,372.33	129.25	11.618		
10,050.00	7,863.72	7,876.31	7,768.81	116.18	32.23	-81.60	497.24	6,290.50	1,465.12	1,337.53	127.60	11.483		
10,100.00	7,868.56	7,881.35	7,773.84	116.06	32.25	-86.10	497.21	6,290.54	1,431.05	1,305.33	125.72	11.383		
10,145.94	7,870.00	7,883.04	7,775.54	115.92	32.25	-89.26	497.19	6,290.55	1,402.26	1,278.46	123.79	11.327		
10,200.00	7,870.00	7,883.38	7,775.87	115.76	32.25	-89.28	497.19	6,290.56	1,370.62	1,249.28	121.34	11.296 SF		
10,300.00	7,870.00	7,883.99	7,776.49	115.46	32.25	-89.31	497.19	6,290.56	1,315.96	1,199.58	116.38	11.307		
10,400.00	7,870.00	7,884.61	7,777.11	115.18	32.26	-89.34	497.18	6,290.57	1,266.84	1,155.96	110.88	11.425		
10,500.00	7,870.00	7,885.23	7,777.72	114.91	32.26	-89.37	497.18	6,290.57	1,223.94	1,119.06	104.88	11.670		
10,600.00	7,870.00	7,885.84	7,778.34	114.65	32.26	-89.41	497.18	6,290.58	1,187.93	1,089.41	98.52	12.058		
10,700.00	7,870.00	7,886.46	7,778.96	114.41	32.26	-89.44	497.17	6,290.58	1,159.44	1,067.42	92.02	12.600		
10,800.00	7,870.00	7,887.08	7,779.57	114.17	32.26	-89.47	497.17	6,290.59	1,139.06	1,053.30	85.76	13.282		
10,900.00	7,870.00	7,887.70	7,780.19	113.95	32.26	-89.50	497.17	6,290.59	1,127.20	1,046.95	80.25	14.045 ES		
10,984.32	7,870.00	7,888.22	7,780.71	113.78	32.27	-89.53	497.16	6,290.60	1,124.05	1,047.35	76.69	14.657 CC		
11,000.00	7,870.00	7,888.31	7,780.81	113.75	32.27	-89.53	497.16	6,290.60	1,124.15	1,047.99	76.17	14.759		
11,100.00	7,870.00	7,888.93	7,781.43	113.55	32.27	-89.56	497.16	6,290.60	1,129.98	1,055.84	74.14	15.242		
11,200.00	7,870.00	7,889.55	7,782.04	113.37	32.27	-89.59	497.15	6,290.61	1,144.55	1,070.07	74.48	15.366		
11,300.00	7,870.00	7,890.17	7,782.66	113.20	32.27	-89.63	497.15	6,290.61	1,167.53	1,090.51	77.02	15.159		
11,400.00	7,870.00	7,890.78	7,783.28	113.04	32.27	-89.66	497.15	6,290.62	1,198.44	1,117.29	81.15	14.768		
11,500.00	7,870.00	7,891.43	7,783.93	112.89	32.28	-89.69	497.14	6,290.62	1,236.69	1,150.50	86.19	14.348		
11,600.00	7,870.00	7,892.10	7,784.59	112.76	32.28	-89.72	497.14	6,290.63	1,281.61	1,190.02	91.59	13.993		
11,700.00	7,870.00	7,892.76	7,785.25	112.64	32.28	-89.76	497.13	6,290.63	1,332.54	1,235.57	96.97	13.741		
11,800.00	7,870.00	7,893.42	7,785.91	112.53	32.28	-89.79	497.13	6,290.64	1,388.81	1,286.69	102.11	13.601		
11,900.00	7,870.00	7,894.07	7,786.57	112.44	32.28	-89.82	497.12	6,290.64	1,449.80	1,342.90	106.90	13.562		
12,000.00	7,870.00	7,894.72	7,787.22	112.36	32.29	-89.86	497.12	6,290.65	1,514.94	1,403.67	111.27	13.615		
12,100.00	7,870.00	7,895.37	7,787.87	112.29	32.29	-89.89	497.12	6,290.66	1,583.72	1,468.49	115.23	13.743		
12,200.00	7,870.00	7,896.01	7,788.51	112.24	32.29	-89.92	497.11	6,290.66	1,655.69	1,536.89	118.80	13.937		
12,300.00	7,870.00	7,896.66	7,789.15	112.20	32.29	-89.96	497.11	6,290.67	1,730.44	1,608.45	121.99	14.185		
12,400.00	7,870.00	7,897.29	7,789.79	112.17	32.29	-89.99	497.10	6,290.67	1,807.64	1,682.80	124.84	14.480		
12,500.00	7,870.00	7,897.93	7,790.43	112.16	32.30	-90.02	497.10	6,290.68	1,886.98	1,759.58	127.39	14.812		
12,600.00	7,870.00	7,898.56	7,791.06	112.17	32.30	-90.05	497.10	6,290.68	1,968.20	1,838.52	129.67	15.178		
12,700.00	7,870.00	7,899.19	7,791.69	112.19	32.30	-90.09	497.09	6,290.69	2,051.08	1,919.36	131.72	15.572		
12,800.00	7,870.00	7,899.82	7,792.31	112.23	32.30	-90.12	497.09	6,290.69	2,135.43	2,001.87	133.55	15.989		
12,900.00	7,870.00	7,900.44	7,792.94	112.28	32.30	-90.15	497.08	6,290.70	2,221.07	2,085.87	135.20	16.428		
13,000.00	7,870.00	7,901.06	7,793.56	112.36	32.31	-90.18	497.08	6,290.70	2,307.88	2,171.19	136.69	16.884		
13,100.00	7,870.00	7,901.68	7,794.17	112.45	32.31	-90.21	497.08	6,290.71	2,395.71	2,257.67	138.03	17.356		
13,200.00	7,870.00	7,902.29	7,794.79	112.56	32.31	-90.24	497.07	6,290.71	2,484.46	2,345.21	139.25	17.842		
13,300.00	7,870.00	7,902.90	7,795.40	112.68	32.31	-90.28	497.07	6,290.71	2,574.03	2,433.68	140.35	18.340		
13,400.00	7,870.00	7,903.51	7,796.01	112.83	32.31	-90.31	497.07	6,290.72	2,664.35	2,522.99	141.36	18.848		
13,500.00	7,870.00	7,904.12	7,796.61	113.00	32.31	-90.34	497.06	6,290.72	2,755.34	2,613.06	142.28	19.366		
13,600.00	7,870.00	7,904.72	7,797.22	113.19	32.32	-90.37	497.06	6,290.73	2,846.93	2,703.81	143.12	19.892		
13,700.00	7,870.00	7,905.32	7,797.82	113.40	32.32	-90.40	497.06	6,290.73	2,939.07	2,795.18	143.89	20.426		
13,800.00	7,870.00	7,905.92	7,798.41	113.63	32.32	-90.43	497.05	6,290.74	3,031.70	2,887.11	144.59	20.967		
13,900.00	7,870.00	7,906.51	7,799.01	113.89	32.32	-90.46	497.05	6,290.74	3,124.79	2,979.55	145.25	21.514		
14,000.00	7,870.00	7,907.10	7,799.60	114.18	32.32	-90.49	497.04	6,290.75	3,218.30	3,072.45	145.85	22.066		
14,100.00	7,870.00	7,907.69	7,800.19	114.48	32.33	-90.52	497.04	6,290.75	3,312.18	3,165.78	146.41	22.623		

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

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 8-2-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 47-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,870.00	7,908.28	7,800.77	114.82	32.33	-90.55	497.04	6,290.75	3,406.42	3,259.49	146.93	23.185		
14,300.00	7,870.00	7,908.86	7,801.36	115.18	32.33	-90.58	497.03	6,290.76	3,500.97	3,353.56	147.41	23.750		
14,400.00	7,870.00	7,909.44	7,801.94	115.57	32.33	-90.61	497.03	6,290.76	3,595.82	3,447.96	147.85	24.320		
14,500.00	7,870.00	7,910.02	7,802.51	115.99	32.33	-90.64	497.03	6,290.77	3,690.94	3,542.66	148.27	24.893		
14,600.00	7,870.00	7,910.59	7,803.09	116.44	32.33	-90.67	497.02	6,290.77	3,786.31	3,637.64	148.66	25.469		
14,700.00	7,870.00	7,911.17	7,803.66	116.92	32.34	-90.70	497.02	6,290.78	3,881.91	3,732.88	149.03	26.048		
14,800.00	7,870.00	7,911.74	7,804.23	117.44	32.34	-90.73	497.02	6,290.78	3,977.73	3,828.36	149.37	26.630		
14,900.00	7,870.00	7,912.30	7,804.80	117.98	32.34	-90.75	497.01	6,290.78	4,073.75	3,924.06	149.70	27.214		
15,000.00	7,870.00	7,912.87	7,805.36	118.56	32.34	-90.78	497.01	6,290.79	4,169.96	4,019.96	150.00	27.800		
15,100.00	7,870.00	7,913.43	7,805.92	119.17	32.34	-90.81	497.01	6,290.79	4,266.34	4,116.05	150.29	28.388		
15,200.00	7,870.00	7,913.99	7,806.48	119.81	32.35	-90.84	497.00	6,290.80	4,362.88	4,212.33	150.56	28.979		
15,300.00	7,870.00	7,914.55	7,807.04	120.48	32.35	-90.87	497.00	6,290.80	4,459.58	4,308.77	150.81	29.571		
15,400.00	7,870.00	7,915.10	7,807.60	121.19	32.35	-90.90	497.00	6,290.80	4,556.42	4,405.37	151.05	30.164		
15,500.00	7,870.00	7,915.65	7,808.15	121.93	32.35	-90.92	496.99	6,290.81	4,653.39	4,502.11	151.28	30.760		
15,600.00	7,870.00	7,916.20	7,808.70	122.71	32.35	-90.95	496.99	6,290.81	4,750.49	4,598.99	151.50	31.356		
15,700.00	7,870.00	7,916.75	7,809.24	123.52	32.35	-90.98	496.99	6,290.82	4,847.71	4,696.00	151.71	31.954		
15,800.00	7,870.00	7,917.29	7,809.79	124.36	32.36	-91.01	496.98	6,290.82	4,945.04	4,793.13	151.91	32.553		
15,900.00	7,870.00	7,917.83	7,810.33	125.23	32.36	-91.04	496.98	6,290.82	5,042.47	4,890.37	152.09	33.154		
16,000.00	7,870.00	7,918.37	7,810.87	126.14	32.36	-91.06	496.98	6,290.83	5,140.00	4,987.73	152.27	33.755		
16,100.00	7,870.00	7,918.91	7,811.41	127.07	32.36	-91.09	496.98	6,290.83	5,237.62	5,085.18	152.44	34.358		
16,200.00	7,870.00	7,919.45	7,811.94	128.04	32.36	-91.12	496.97	6,290.83	5,335.33	5,182.72	152.61	34.961		
16,300.00	7,870.00	7,919.98	7,812.47	129.04	32.36	-91.15	496.97	6,290.84	5,433.13	5,280.36	152.77	35.565		
16,400.00	7,870.00	7,920.51	7,813.00	130.06	32.37	-91.17	496.97	6,290.84	5,531.00	5,378.09	152.92	36.170		
16,500.00	7,870.00	7,921.04	7,813.53	131.11	32.37	-91.20	496.96	6,290.84	5,628.95	5,475.89	153.06	36.776		
16,600.00	7,870.00	7,921.56	7,814.06	132.19	32.37	-91.23	496.96	6,290.85	5,726.97	5,573.77	153.20	37.382		
16,700.00	7,870.00	7,922.08	7,814.58	133.29	32.37	-91.25	496.96	6,290.85	5,825.06	5,671.72	153.33	37.990		
16,800.00	7,870.00	7,922.60	7,815.10	134.42	32.37	-91.28	496.95	6,290.86	5,923.21	5,769.74	153.46	38.597		
16,900.00	7,870.00	7,923.12	7,815.62	135.57	32.37	-91.31	496.95	6,290.86	6,021.42	5,867.83	153.59	39.206		
17,000.00	7,870.00	7,923.64	7,816.13	136.75	32.37	-91.33	496.95	6,290.86	6,119.69	5,965.98	153.70	39.814		
17,100.00	7,870.00	7,924.15	7,816.65	137.94	32.38	-91.36	496.95	6,290.87	6,218.01	6,064.19	153.82	40.424		
17,200.00	7,870.00	7,924.66	7,817.16	139.16	32.38	-91.38	496.94	6,290.87	6,316.39	6,162.45	153.93	41.034		
17,300.00	7,870.00	7,925.17	7,817.67	140.39	32.38	-91.41	496.94	6,290.87	6,414.81	6,260.77	154.04	41.644		
17,400.00	7,870.00	7,925.68	7,818.17	141.65	32.38	-91.44	496.94	6,290.88	6,513.29	6,359.14	154.14	42.255		
17,500.00	7,870.00	7,926.19	7,818.68	142.92	32.38	-91.46	496.93	6,290.88	6,611.81	6,457.56	154.25	42.866		
17,600.00	7,870.00	7,926.69	7,819.18	144.21	32.38	-91.49	496.93	6,290.88	6,710.37	6,556.03	154.34	43.477		
17,700.00	7,870.00	7,927.19	7,819.68	145.52	32.39	-91.51	496.93	6,290.88	6,808.98	6,654.54	154.44	44.089		
17,800.00	7,870.00	7,927.69	7,820.18	146.84	32.39	-91.54	496.93	6,290.89	6,907.63	6,753.09	154.53	44.701		
17,900.00	7,870.00	7,928.18	7,820.68	148.18	32.39	-91.56	496.92	6,290.89	7,006.31	6,851.69	154.62	45.313		
18,000.00	7,870.00	7,928.68	7,821.17	149.54	32.39	-91.59	496.92	6,290.89	7,105.03	6,950.32	154.71	45.925		
18,100.00	7,870.00	7,929.17	7,821.66	150.90	32.39	-91.61	496.92	6,290.90	7,203.79	7,048.99	154.79	46.538		
18,200.00	7,870.00	7,929.66	7,822.15	152.28	32.39	-91.64	496.92	6,290.90	7,302.58	7,147.70	154.88	47.151		
18,300.00	7,870.00	7,930.15	7,822.64	153.67	32.39	-91.66	496.91	6,290.90	7,401.40	7,246.44	154.96	47.764		
18,400.00	7,870.00	7,930.63	7,823.13	155.07	32.40	-91.69	496.91	6,290.91	7,500.25	7,345.22	155.04	48.378		
18,500.00	7,870.00	7,931.12	7,823.61	156.49	32.40	-91.71	496.91	6,290.91	7,599.14	7,444.03	155.11	48.991		
18,600.00	7,870.00	7,931.60	7,824.09	157.91	32.40	-91.74	496.91	6,290.91	7,698.05	7,542.86	155.19	49.605		
18,700.00	7,870.00	7,932.08	7,824.57	159.35	32.40	-91.76	496.90	6,290.92	7,796.99	7,641.73	155.26	50.219		
18,800.00	7,870.00	7,932.55	7,825.05	160.79	32.40	-91.79	496.90	6,290.92	7,895.96	7,740.63	155.33	50.832		
18,900.00	7,870.00	7,933.03	7,825.52	162.25	32.40	-91.81	496.90	6,290.92	7,994.95	7,839.55	155.40	51.446		
19,000.00	7,870.00	7,933.50	7,826.00	163.71	32.40	-91.83	496.89	6,290.92	8,093.97	7,938.50	155.47	52.060		
19,100.00	7,870.00	7,933.98	7,826.47	165.18	32.41	-91.86	496.89	6,290.93	8,193.01	8,037.47	155.54	52.675		
19,200.00	7,870.00	7,934.45	7,826.94	166.66	32.41	-91.88	496.89	6,290.93	8,292.07	8,136.47	155.61	53.289		
19,300.00	7,870.00	7,934.91	7,827.41	168.15	32.41	-91.91	496.89	6,290.93	8,391.16	8,235.49	155.67	53.903		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,400.00	7,870.00	7,935.38	7,827.87	169.65	32.41	-91.93	496.88	6,290.93	8,490.27	8,334.53	155.74	54.517	
19,500.00	7,870.00	7,935.84	7,828.34	171.15	32.41	-91.95	496.88	6,290.94	8,589.40	8,433.60	155.80	55.132	
19,600.00	7,870.00	7,936.30	7,828.80	172.66	32.41	-91.98	496.88	6,290.94	8,688.55	8,532.69	155.86	55.746	
19,700.00	7,870.00	7,936.76	7,829.26	174.18	32.41	-92.00	496.88	6,290.94	8,787.71	8,631.79	155.92	56.360	
19,800.00	7,870.00	7,937.22	7,829.72	175.70	32.42	-92.02	496.88	6,290.95	8,886.90	8,730.92	155.98	56.975	
19,889.26	7,870.00	7,937.63	7,830.12	177.06	32.42	-92.04	496.87	6,290.95	8,975.44	8,819.41	156.03	57.523	

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 78-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	81.94	758.30	5,354.05	5,408.09					
100.00	100.00	23.50	23.50	0.13	0.04	81.94	758.28	5,354.04	5,407.47	5,407.30	0.17	N/A		
198.60	198.60	117.61	117.60	0.49	0.26	81.95	757.64	5,353.98	5,407.32	5,406.57	0.75	7,238.355		
200.00	200.00	118.62	118.62	0.49	0.26	81.95	757.62	5,353.98	5,407.32	5,406.56	0.76	7,155.386		
300.00	300.00	169.00	168.97	0.85	0.45	81.96	756.19	5,354.27	5,407.64	5,406.34	1.30	4,172.963		
400.00	399.98	237.06	236.94	1.21	0.70	13.86	752.71	5,355.41	5,406.97	5,405.07	1.90	2,844.657		
500.00	499.84	295.27	294.95	1.56	0.92	13.93	748.29	5,357.17	5,403.82	5,401.35	2.48	2,182.279		
600.00	599.45	351.00	350.39	1.93	1.13	14.03	743.12	5,359.34	5,398.00	5,394.95	3.05	1,769.987		
700.00	698.70	413.64	412.56	2.32	1.39	14.17	736.10	5,362.41	5,389.56	5,385.89	3.67	1,470.004		
800.00	797.47	442.00	440.64	2.72	1.50	14.27	732.47	5,364.04	5,378.69	5,374.54	4.15	1,296.568		
900.00	895.62	496.27	494.21	3.16	1.74	14.45	724.67	5,367.83	5,365.43	5,360.67	4.76	1,127.984		
1,000.00	993.06	533.00	530.32	3.63	1.90	14.62	718.74	5,371.01	5,350.08	5,344.78	5.29	1,010.496		
1,100.00	1,089.64	567.09	563.72	4.14	2.07	14.81	712.80	5,374.39	5,332.58	5,326.74	5.84	913.058		
1,200.00	1,185.27	624.00	619.21	4.70	2.34	15.08	702.04	5,380.98	5,313.09	5,306.59	6.50	817.010		
1,300.00	1,279.82	645.90	640.47	5.31	2.46	15.27	697.60	5,383.77	5,291.21	5,284.19	7.02	753.915		
1,400.00	1,373.17	715.00	707.22	5.97	2.82	15.66	682.31	5,392.97	5,266.98	5,259.19	7.79	676.322		
1,500.00	1,465.21	754.96	745.59	6.69	3.05	15.97	672.69	5,398.63	5,240.31	5,231.88	8.44	621.150		
1,600.00	1,555.84	808.00	796.25	7.47	3.36	16.37	659.19	5,406.69	5,211.45	5,202.28	9.17	568.223		
1,700.00	1,644.94	850.14	836.28	8.31	3.62	16.76	647.90	5,413.44	5,180.31	5,170.44	9.88	524.408		
1,800.00	1,732.39	902.00	885.28	9.23	3.95	17.23	633.29	5,422.09	5,146.89	5,136.23	10.66	482.870		
1,900.00	1,818.11	960.13	940.04	10.21	4.33	17.77	616.55	5,432.14	5,111.14	5,099.64	11.51	444.163		
2,000.00	1,901.97	1,031.11	1,006.83	11.26	4.80	18.43	596.09	5,444.72	5,073.03	5,060.57	12.46	407.007		
2,100.00	1,983.88	1,112.87	1,083.49	12.38	5.36	19.21	571.64	5,459.21	5,032.22	5,018.70	13.52	372.189		
2,200.00	2,063.74	1,294.05	1,253.74	13.57	6.59	20.70	517.81	5,489.89	4,988.42	4,973.17	15.25	327.143		
2,300.00	2,141.45	1,369.60	1,325.04	14.84	7.10	21.59	495.68	5,501.52	4,940.70	4,924.38	16.31	302.847		
2,327.78	2,162.65	1,379.82	1,334.66	15.21	7.17	21.78	492.65	5,503.13	4,927.09	4,910.54	16.55	297.735		
2,400.00	2,217.51	1,406.34	1,359.61	16.17	7.35	21.97	484.75	5,507.42	4,891.81	4,874.65	17.15	285.164		
2,500.00	2,293.49	1,433.00	1,384.64	17.51	7.54	22.16	476.72	5,511.88	4,843.84	4,825.89	17.94	269.940		
2,600.00	2,369.47	1,478.90	1,427.56	18.86	7.87	22.49	462.56	5,519.90	4,796.87	4,777.97	18.89	253.887		
2,700.00	2,445.45	1,527.00	1,472.24	20.22	8.21	22.85	447.14	5,528.77	4,751.03	4,731.15	19.88	238.997		
2,800.00	2,521.42	1,580.07	1,521.38	21.59	8.61	23.26	429.78	5,538.81	4,706.10	4,685.17	20.93	224.853		
2,900.00	2,597.40	1,656.89	1,592.53	22.97	9.18	23.85	404.66	5,553.26	4,661.69	4,639.52	22.17	210.259		
3,000.00	2,673.38	1,792.62	1,718.70	24.34	10.18	24.91	361.37	5,578.34	4,617.72	4,593.87	23.85	193.617		
3,100.00	2,749.36	1,870.08	1,791.13	25.73	10.73	25.52	337.50	5,591.88	4,573.30	4,548.18	25.12	182.058		
3,200.00	2,825.33	1,942.02	1,858.61	27.11	11.24	26.08	316.05	5,604.61	4,529.54	4,503.18	26.36	171.808		
3,300.00	2,901.31	2,016.82	1,928.90	28.50	11.77	26.66	294.20	5,617.88	4,486.33	4,458.68	27.64	162.297		
3,400.00	2,977.29	2,086.92	1,994.79	29.90	12.26	27.22	273.79	5,630.37	4,443.73	4,414.82	28.91	153.722		
3,500.00	3,053.27	2,143.85	2,048.21	31.29	12.66	27.67	256.99	5,640.64	4,401.91	4,371.80	30.11	146.209		
3,600.00	3,129.24	2,201.23	2,101.88	32.69	13.07	28.14	239.66	5,651.17	4,361.00	4,329.67	31.33	139.191		
3,700.00	3,205.22	2,260.64	2,157.38	34.08	13.50	28.64	221.60	5,662.27	4,321.00	4,288.41	32.59	132.575		
3,800.00	3,281.20	2,410.23	2,297.62	35.48	14.56	29.89	177.10	5,689.32	4,281.09	4,246.57	34.53	123.999		
3,900.00	3,357.18	2,491.60	2,374.30	36.88	15.12	30.57	153.81	5,703.38	4,241.10	4,205.13	35.98	117.889		
4,000.00	3,433.15	2,555.62	2,434.56	38.29	15.57	31.12	135.27	5,714.49	4,201.88	4,164.56	37.32	112.580		
4,100.00	3,509.13	2,612.91	2,488.30	39.69	15.98	31.62	118.14	5,724.52	4,163.60	4,124.95	38.66	107.709		
4,200.00	3,585.11	2,689.27	2,559.67	41.09	16.52	32.30	94.58	5,737.99	4,126.30	4,086.15	40.15	102.760		
4,300.00	3,661.08	2,776.74	2,641.92	42.50	17.14	33.08	69.06	5,753.36	4,089.39	4,047.64	41.75	97.945		
4,400.00	3,737.06	2,836.00	2,697.58	43.90	17.55	33.61	51.59	5,763.78	4,053.32	4,010.17	43.15	93.929		
4,500.00	3,813.04	2,891.04	2,749.12	45.31	17.95	34.12	34.97	5,773.60	4,018.36	3,973.81	44.55	90.198		
4,600.00	3,889.02	2,944.71	2,799.22	46.71	18.34	34.62	18.43	5,783.42	3,984.64	3,938.68	45.96	86.704		
4,700.00	3,964.99	3,005.37	2,855.74	48.12	18.78	35.19	-0.50	5,794.69	3,952.07	3,904.62	47.44	83.300		
4,800.00	4,040.97	3,074.39	2,919.94	49.53	19.30	35.85	-22.31	5,807.62	3,920.57	3,871.54	49.03	79.970		
4,900.00	4,116.95	3,149.40	2,989.59	50.94	19.86	36.57	-46.42	5,821.57	3,890.00	3,839.31	50.69	76.746		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,192.93	3,239.36	3,072.90	52.35	20.53	37.47	-76.15	5,837.89	3,860.28	3,807.77	52.51	73.511		
5,100.00	4,268.90	3,351.60	3,177.31	53.76	21.36	38.59	-112.33	5,857.56	3,830.83	3,776.27	54.55	70.223		
5,200.00	4,344.88	3,428.92	3,249.78	55.16	21.92	39.34	-135.54	5,871.29	3,801.94	3,745.66	56.28	67.555		
5,300.00	4,420.86	3,488.96	3,306.08	56.57	22.35	39.93	-153.30	5,882.22	3,774.20	3,716.34	57.87	65.223		
5,400.00	4,496.84	3,533.49	3,347.73	57.98	22.67	40.38	-166.69	5,890.51	3,747.88	3,688.54	59.34	63.164		
5,500.00	4,572.81	3,586.00	3,396.59	59.39	23.06	40.91	-183.11	5,900.52	3,723.19	3,662.30	60.89	61.145		
5,600.00	4,648.79	3,654.74	3,460.46	60.81	23.57	41.61	-204.78	5,913.83	3,699.86	3,637.24	62.62	59.087		
5,700.00	4,724.77	3,810.68	3,606.33	62.22	24.70	43.19	-251.65	5,942.83	3,676.45	3,611.29	65.16	56.419		
5,800.00	4,800.74	3,882.12	3,673.44	63.63	25.20	43.92	-272.47	5,955.71	3,653.48	3,586.55	66.94	54.581		
5,900.00	4,876.72	3,943.69	3,731.09	65.04	25.64	44.56	-291.10	5,966.63	3,631.77	3,563.13	68.64	52.908		
6,000.00	4,952.70	3,994.14	3,778.15	66.45	26.01	45.09	-306.94	5,975.53	3,611.52	3,541.26	70.26	51.403		
6,100.00	5,028.68	4,041.08	3,821.88	67.86	26.36	45.59	-321.65	5,984.23	3,592.97	3,521.12	71.84	50.012		
6,200.00	5,104.65	4,107.75	3,883.93	69.27	26.85	46.30	-342.40	5,997.07	3,575.99	3,502.36	73.63	48.567		
6,300.00	5,180.63	4,199.62	3,969.46	70.69	27.53	47.27	-370.93	6,014.67	3,560.10	3,484.41	75.69	47.034		
6,400.00	5,256.61	4,279.16	4,043.52	72.10	28.12	48.13	-396.10	6,029.12	3,544.94	3,467.30	77.65	45.655		
6,500.00	5,332.59	4,337.00	4,097.37	73.51	28.55	48.75	-414.22	6,039.94	3,531.22	3,451.85	79.37	44.488		
6,600.00	5,408.56	4,392.13	4,148.65	74.92	28.96	49.35	-431.37	6,050.64	3,519.09	3,438.03	81.07	43.408		
6,700.00	5,484.54	4,452.64	4,204.86	76.34	29.41	50.00	-450.23	6,062.79	3,508.60	3,425.78	82.82	42.362		
6,800.00	5,560.52	4,528.18	4,274.96	77.75	29.98	50.81	-473.94	6,077.92	3,499.43	3,414.67	84.75	41.290		
6,900.00	5,636.50	4,603.61	4,344.84	79.16	30.55	51.64	-498.32	6,092.49	3,491.47	3,404.77	86.70	40.271		
7,000.00	5,712.47	4,664.28	4,400.88	80.57	31.02	52.32	-518.67	6,103.72	3,484.91	3,396.42	88.49	39.384		
7,100.00	5,788.45	4,711.00	4,443.91	81.99	31.38	52.85	-534.73	6,112.27	3,480.02	3,389.92	90.10	38.625		
7,200.00	5,864.43	4,764.90	4,493.47	83.40	31.81	53.45	-553.21	6,122.62	3,476.93	3,385.15	91.79	37.880		
7,300.00	5,940.40	4,816.98	4,545.77	84.81	32.22	54.04	-572.30	6,132.97	3,473.84	3,380.38	93.48	37.135		
7,400.00	6,016.38	4,869.06	4,598.06	86.23	32.63	54.63	-591.40	6,143.32	3,470.75	3,375.61	95.17	36.390		
7,500.00	6,092.36	4,921.14	4,650.35	87.64	33.04	55.22	-610.50	6,153.67	3,467.66	3,370.84	96.86	35.645		
7,600.00	6,168.34	4,973.22	4,702.64	89.05	33.45	55.81	-629.60	6,163.99	3,464.57	3,366.07	98.55	34.900		
7,700.00	6,244.31	5,025.30	4,754.93	90.46	33.86	56.40	-648.70	6,174.32	3,461.48	3,361.30	100.24	34.155		
7,800.00	6,320.29	5,077.38	4,807.22	91.87	34.27	56.99	-667.80	6,184.64	3,458.39	3,356.53	101.93	33.410		
7,900.00	6,396.27	5,129.46	4,859.51	93.28	34.68	57.58	-686.90	6,194.96	3,455.30	3,351.76	103.62	32.665		
8,000.00	6,472.25	5,181.54	4,911.80	94.69	35.09	58.17	-706.00	6,205.28	3,452.21	3,346.99	105.31	31.920		
8,100.00	6,548.22	5,233.62	4,964.09	96.10	35.50	58.76	-725.10	6,215.59	3,449.12	3,342.22	107.00	31.175		
8,200.00	6,624.20	5,285.70	5,016.38	97.51	35.91	59.35	-744.20	6,225.91	3,446.03	3,337.45	108.69	30.430		
8,300.00	6,700.18	5,337.78	5,068.67	98.92	36.32	59.94	-763.30	6,236.22	3,442.94	3,332.68	110.38	29.685		
8,400.00	6,776.16	5,389.86	5,120.96	100.33	36.73	60.53	-782.40	6,246.54	3,439.85	3,327.91	112.07	28.940		
8,500.00	6,852.13	5,441.94	5,173.25	101.74	37.14	61.12	-801.50	6,256.85	3,436.76	3,323.14	113.76	28.195		
8,600.00	6,928.11	5,494.02	5,225.54	103.15	37.55	61.71	-820.60	6,267.17	3,433.67	3,318.37	115.45	27.450		
8,700.00	7,004.09	5,546.10	5,277.83	104.56	37.96	62.30	-839.70	6,277.48	3,430.58	3,313.60	117.14	26.705		
8,800.00	7,080.06	5,598.18	5,330.12	105.97	38.37	62.89	-858.80	6,287.80	3,427.49	3,308.83	118.83	25.960		
8,900.00	7,156.04	5,650.26	5,382.41	107.38	38.78	63.48	-877.90	6,298.11	3,424.40	3,304.06	120.52	25.215		
9,000.00	7,232.02	5,702.34	5,434.70	108.79	39.19	64.07	-897.00	6,308.43	3,421.31	3,300.00	122.21	24.470		
9,104.68	7,311.55	5,754.42	5,486.99	110.20	39.60	64.66	-916.10	6,318.74	3,418.22	3,295.83	123.90	23.725		
9,150.00	7,346.29	5,754.56	5,487.13	110.97	41.30	79.24	-800.09	6,244.07	3,087.98	2,949.78	138.20	22.344		
9,200.00	7,385.15	5,761.00	5,493.60	111.65	41.37	73.20	-800.80	6,243.19	3,078.79	2,939.69	139.11	22.132		
9,250.00	7,424.29	5,761.90	5,494.50	112.31	41.39	66.51	-800.99	6,243.05	3,066.06	2,926.12	139.94	21.910		
9,300.00	7,463.40	5,765.15	5,497.75	112.93	41.47	59.93	-801.59	6,242.78	3,049.94	2,909.19	140.74	21.670		
9,350.00	7,502.19	5,768.76	5,499.36	113.51	41.54	53.37	-802.10	6,242.88	3,030.38	2,888.89	141.49	21.418		
9,400.00	7,540.36	5,770.05	5,500.65	114.04	41.60	46.87	-802.39	6,243.17	3,007.50	2,865.35	142.15	21.157		
9,450.00	7,577.62	5,773.80	5,502.40	114.53	41.68	40.66	-802.83	6,243.74	2,981.45	2,838.68	142.76	20.884		
9,500.00	7,613.70	5,775.20	5,503.80	114.95	41.74	34.62	-803.26	6,244.25	2,952.43	2,809.13	143.29	20.604		
9,550.00	7,648.30	5,777.95	5,505.55	115.32	41.79	28.76	-803.77	6,244.82	2,920.58	2,776.84	143.74	20.318		
9,600.00	7,681.18	5,779.00	5,506.60	115.63	41.85	22.96	-804.31	6,245.40	2,886.09	2,741.98	144.12	20.026		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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		
9,650.00	7,712.08	7,823.31	7,510.64	115.88	41.92	17.11	-805.04	6,246.17	2,849.16	2,704.73	144.43	19.727		
9,700.00	7,740.76	7,845.23	7,532.52	116.08	41.98	10.92	-805.75	6,246.93	2,809.99	2,665.32	144.66	19.424		
9,750.00	7,767.01	7,865.59	7,552.86	116.23	42.04	4.14	-806.45	6,247.67	2,768.84	2,624.02	144.82	19.119		
9,800.00	7,790.63	7,884.24	7,571.49	116.33	42.09	-3.60	-807.13	6,248.40	2,726.01	2,581.11	144.90	18.813		
9,850.00	7,811.44	7,912.45	7,599.66	116.38	42.18	-12.78	-808.19	6,249.50	2,681.77	2,536.83	144.95	18.502		
9,900.00	7,829.28	7,945.17	7,632.34	116.38	42.27	-23.99	-809.36	6,250.58	2,636.35	2,491.42	144.93	18.190		
9,950.00	7,844.01	7,972.25	7,659.39	116.35	42.35	-37.18	-810.27	6,251.31	2,590.15	2,445.31	144.83	17.883		
10,000.00	7,855.52	8,000.93	7,688.05	116.28	42.43	-51.87	-811.17	6,251.92	2,543.57	2,398.90	144.67	17.582		
10,050.00	7,863.72	8,030.51	7,717.61	116.18	42.51	-66.55	-811.95	6,252.36	2,497.02	2,352.58	144.43	17.289		
10,100.00	7,868.56	8,048.27	7,735.37	116.06	42.55	-78.87	-812.33	6,252.53	2,450.96	2,306.85	144.10	17.009		
10,145.94	7,870.00	8,055.05	7,742.14	115.92	42.57	-87.54	-812.46	6,252.58	2,409.47	2,265.75	143.73	16.764		
10,200.00	7,870.00	8,057.84	7,744.93	115.76	42.58	-87.69	-812.51	6,252.60	2,361.41	2,218.17	143.23	16.487		
10,300.00	7,870.00	8,062.59	7,749.69	115.46	42.59	-87.94	-812.60	6,252.62	2,273.19	2,130.94	142.25	15.981		
10,400.00	7,870.00	8,066.88	7,753.98	115.18	42.60	-88.16	-812.67	6,252.64	2,185.99	2,044.83	141.16	15.486		
10,500.00	7,870.00	8,070.78	7,757.87	114.91	42.61	-88.36	-812.73	6,252.66	2,099.93	1,959.98	139.95	15.005		
10,600.00	7,870.00	8,074.33	7,761.42	114.65	42.62	-88.55	-812.78	6,252.67	2,015.15	1,876.54	138.61	14.538		
10,700.00	7,870.00	8,077.58	7,764.67	114.41	42.63	-88.72	-812.83	6,252.67	1,931.82	1,794.70	137.12	14.088		
10,800.00	7,870.00	8,080.56	7,767.66	114.17	42.64	-88.88	-812.87	6,252.67	1,850.15	1,714.69	135.46	13.658		
10,900.00	7,870.00	8,083.31	7,770.41	113.95	42.65	-89.02	-812.91	6,252.68	1,770.35	1,636.75	133.60	13.251		
11,000.00	7,870.00	8,085.86	7,772.95	113.75	42.65	-89.16	-812.94	6,252.68	1,692.71	1,561.18	131.53	12.869		
11,100.00	7,870.00	8,088.22	7,775.31	113.55	42.66	-89.28	-812.97	6,252.68	1,617.51	1,488.30	129.21	12.518		
11,200.00	7,870.00	8,090.42	7,777.51	113.37	42.67	-89.40	-813.00	6,252.67	1,545.13	1,418.51	126.62	12.203		
11,300.00	7,870.00	8,092.46	7,779.56	113.20	42.67	-89.50	-813.02	6,252.67	1,475.97	1,352.24	123.73	11.929		
11,400.00	7,870.00	8,094.38	7,781.47	113.04	42.68	-89.60	-813.04	6,252.67	1,410.52	1,290.00	120.53	11.703		
11,500.00	7,870.00	8,096.17	7,783.26	112.89	42.68	-89.70	-813.06	6,252.66	1,349.31	1,232.32	117.00	11.533		
11,600.00	7,870.00	8,097.85	7,784.94	112.76	42.69	-89.79	-813.08	6,252.66	1,292.95	1,179.79	113.15	11.427		
11,700.00	7,870.00	8,096.68	7,783.77	112.64	42.68	-89.73	-813.07	6,252.67	1,242.10	1,133.02	109.08	11.387		
11,800.00	7,870.00	8,098.13	7,785.22	112.53	42.68	-89.80	-813.09	6,252.67	1,197.44	1,092.61	104.84	11.422		
11,900.00	7,870.00	8,099.52	7,786.61	112.44	42.68	-89.87	-813.10	6,252.67	1,159.71	1,059.05	100.66	11.521		
12,000.00	7,870.00	8,100.86	7,787.95	112.36	42.69	-89.94	-813.12	6,252.67	1,129.60	1,032.72	96.87	11.660		
12,100.00	7,870.00	8,102.14	7,789.23	112.29	42.69	-90.01	-813.13	6,252.66	1,107.72	1,013.79	93.93	11.793		
12,200.00	7,870.00	8,103.38	7,790.47	112.24	42.69	-90.08	-813.14	6,252.66	1,094.58	1,002.22	92.36	11.851		
12,294.75	7,870.00	8,104.50	7,791.60	112.20	42.69	-90.14	-813.15	6,252.66	1,090.47	997.95	92.52	11.786 CC		
12,300.00	7,870.00	8,104.57	7,791.66	112.20	42.69	-90.14	-813.15	6,252.66	1,090.48	997.90	92.58	11.779 ES		
12,400.00	7,870.00	8,105.71	7,792.80	112.17	42.70	-90.20	-813.17	6,252.65	1,095.54	1,000.82	94.71	11.567		
12,500.00	7,870.00	8,106.82	7,793.91	112.16	42.70	-90.26	-813.18	6,252.65	1,109.62	1,011.14	98.48	11.268		
12,600.00	7,870.00	8,107.88	7,794.97	112.17	42.70	-90.31	-813.19	6,252.65	1,132.38	1,029.04	103.35	10.957		
12,700.00	7,870.00	8,108.91	7,796.00	112.19	42.70	-90.37	-813.20	6,252.65	1,163.33	1,054.58	108.75	10.697		
12,800.00	7,870.00	8,109.90	7,797.00	112.23	42.71	-90.42	-813.20	6,252.64	1,201.82	1,087.58	114.24	10.520		
12,900.00	7,870.00	8,110.86	7,797.96	112.28	42.71	-90.47	-813.21	6,252.64	1,247.16	1,127.66	119.51	10.436 SF		
13,000.00	7,870.00	8,111.79	7,798.88	112.36	42.71	-90.52	-813.22	6,252.64	1,298.63	1,174.26	124.37	10.442		
13,100.00	7,870.00	8,112.69	7,799.78	112.45	42.71	-90.57	-813.23	6,252.63	1,355.54	1,226.79	128.75	10.528		
13,200.00	7,870.00	8,113.56	7,800.65	112.56	42.71	-90.61	-813.24	6,252.63	1,417.22	1,284.58	132.64	10.685		
13,300.00	7,870.00	8,114.40	7,801.49	112.68	42.72	-90.66	-813.24	6,252.63	1,483.09	1,347.05	136.04	10.902		
13,400.00	7,870.00	8,115.22	7,802.31	112.83	42.72	-90.70	-813.25	6,252.62	1,552.60	1,413.60	139.01	11.169		
13,500.00	7,870.00	8,116.01	7,803.10	113.00	42.72	-90.74	-813.26	6,252.62	1,625.30	1,483.73	141.57	11.480		
13,600.00	7,870.00	8,116.77	7,803.86	113.19	42.72	-90.78	-813.26	6,252.62	1,700.78	1,556.98	143.80	11.827		
13,700.00	7,870.00	8,117.52	7,804.61	113.40	42.72	-90.82	-813.27	6,252.61	1,778.67	1,632.95	145.72	12.206		
13,800.00	7,870.00	8,118.24	7,805.33	113.63	42.73	-90.86	-813.27	6,252.61	1,858.68	1,711.29	147.39	12.611		
13,900.00	7,870.00	8,118.94	7,806.03	113.89	42.73	-90.89	-813.28	6,252.61	1,940.54	1,791.71	148.83	13.039		
14,000.00	7,870.00	8,119.62	7,806.71	114.18	42.73	-90.93	-813.28	6,252.61	2,024.04	1,873.96	150.08	13.486		
14,100.00	7,870.00	8,120.28	7,807.38	114.48	42.73	-90.97	-813.29	6,252.60	2,108.97	1,957.80	151.17	13.951		

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

Anticollision Report

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

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 78-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,870.00	8,120.93	7,808.02	114.82	42.73	-91.00	-813.29	6,252.60	2,195.17	2,043.05	152.13	14.430		
14,300.00	7,870.00	8,121.56	7,808.65	115.18	42.73	-91.03	-813.30	6,252.60	2,282.50	2,129.54	152.96	14.922		
14,400.00	7,870.00	8,122.17	7,809.26	115.57	42.73	-91.06	-813.30	6,252.59	2,370.83	2,217.14	153.69	15.426		
14,500.00	7,870.00	8,122.76	7,809.85	115.99	42.74	-91.10	-813.31	6,252.59	2,460.05	2,305.71	154.34	15.940		
14,600.00	7,870.00	8,123.34	7,810.43	116.44	42.74	-91.13	-813.31	6,252.59	2,550.07	2,395.17	154.90	16.462		
14,700.00	7,870.00	8,123.90	7,810.99	116.92	42.74	-91.16	-813.32	6,252.58	2,640.81	2,485.40	155.41	16.993		
14,800.00	7,870.00	8,124.45	7,811.54	117.44	42.74	-91.18	-813.32	6,252.58	2,732.20	2,576.34	155.86	17.530		
14,900.00	7,870.00	8,124.98	7,812.08	117.98	42.74	-91.21	-813.32	6,252.58	2,824.17	2,667.91	156.25	18.074		
15,000.00	7,870.00	8,125.51	7,812.60	118.56	42.74	-91.24	-813.33	6,252.58	2,916.66	2,760.05	156.61	18.624		
15,100.00	7,870.00	8,126.01	7,813.11	119.17	42.74	-91.27	-813.33	6,252.57	3,009.64	2,852.71	156.93	19.179		
15,200.00	7,870.00	8,126.51	7,813.60	119.81	42.74	-91.29	-813.33	6,252.57	3,103.06	2,945.84	157.21	19.738		
15,300.00	7,870.00	8,127.00	7,814.09	120.48	42.74	-91.32	-813.34	6,252.57	3,196.87	3,039.40	157.47	20.302		
15,400.00	7,870.00	8,127.47	7,814.56	121.19	42.75	-91.34	-813.34	6,252.56	3,291.05	3,133.35	157.70	20.869		
15,500.00	7,870.00	8,127.93	7,815.02	121.93	42.75	-91.37	-813.34	6,252.56	3,385.56	3,227.65	157.91	21.440		
15,600.00	7,870.00	8,128.38	7,815.47	122.71	42.75	-91.39	-813.34	6,252.56	3,480.37	3,322.28	158.10	22.014		
15,700.00	7,870.00	8,128.82	7,815.92	123.52	42.75	-91.41	-813.35	6,252.56	3,575.47	3,417.20	158.27	22.591		
15,800.00	7,870.00	8,129.25	7,816.35	124.36	42.75	-91.44	-813.35	6,252.55	3,670.83	3,512.41	158.43	23.170		
15,900.00	7,870.00	8,129.68	7,816.77	125.23	42.75	-91.46	-813.35	6,252.55	3,766.44	3,607.86	158.57	23.752		
16,000.00	7,870.00	8,130.09	7,817.18	126.14	42.75	-91.48	-813.35	6,252.55	3,862.26	3,703.56	158.70	24.337		
16,100.00	7,870.00	8,130.49	7,817.58	127.07	42.75	-91.50	-813.36	6,252.55	3,958.29	3,799.47	158.82	24.923		
16,200.00	7,870.00	8,130.89	7,817.98	128.04	42.75	-91.52	-813.36	6,252.54	4,054.51	3,895.58	158.93	25.511		
16,300.00	7,870.00	8,131.27	7,818.36	129.04	42.75	-91.54	-813.36	6,252.54	4,150.91	3,991.88	159.03	26.101		
16,400.00	7,870.00	8,131.65	7,818.74	130.06	42.76	-91.56	-813.36	6,252.54	4,247.48	4,088.35	159.12	26.693		
16,500.00	7,870.00	8,132.02	7,819.11	131.11	42.76	-91.58	-813.36	6,252.54	4,344.20	4,184.99	159.21	27.286		
16,600.00	7,870.00	8,132.38	7,819.47	132.19	42.76	-91.60	-813.37	6,252.54	4,441.07	4,281.78	159.29	27.880		
16,700.00	7,870.00	8,132.74	7,819.83	133.29	42.76	-91.62	-813.37	6,252.53	4,538.07	4,378.71	159.36	28.476		
16,800.00	7,870.00	8,133.08	7,820.18	134.42	42.76	-91.64	-813.37	6,252.53	4,635.20	4,475.77	159.43	29.073		
16,900.00	7,870.00	8,133.42	7,820.52	135.57	42.76	-91.66	-813.37	6,252.53	4,732.45	4,572.96	159.50	29.671		
17,000.00	7,870.00	8,133.76	7,820.85	136.75	42.76	-91.67	-813.37	6,252.53	4,829.82	4,670.26	159.56	30.270		
17,100.00	7,870.00	8,134.09	7,821.18	137.94	42.76	-91.69	-813.38	6,252.52	4,927.28	4,767.67	159.61	30.870		
17,200.00	7,870.00	8,134.41	7,821.50	139.16	42.76	-91.71	-813.38	6,252.52	5,024.85	4,865.19	159.66	31.471		
17,300.00	7,870.00	8,134.72	7,821.81	140.39	42.76	-91.72	-813.38	6,252.52	5,122.51	4,962.80	159.71	32.073		
17,400.00	7,870.00	8,135.03	7,822.12	141.65	42.76	-91.74	-813.38	6,252.52	5,220.26	5,060.50	159.76	32.676		
17,500.00	7,870.00	8,135.33	7,822.42	142.92	42.76	-91.76	-813.38	6,252.52	5,318.10	5,158.29	159.80	33.279		
17,600.00	7,870.00	8,135.63	7,822.72	144.21	42.76	-91.77	-813.38	6,252.51	5,416.01	5,256.16	159.85	33.883		
17,700.00	7,870.00	8,135.92	7,823.01	145.52	42.77	-91.79	-813.39	6,252.51	5,514.00	5,354.11	159.88	34.487		
17,800.00	7,870.00	8,136.21	7,823.30	146.84	42.77	-91.80	-813.39	6,252.51	5,612.05	5,452.13	159.92	35.092		
17,900.00	7,870.00	8,136.49	7,823.58	148.18	42.77	-91.82	-813.39	6,252.51	5,710.18	5,550.22	159.96	35.698		
18,000.00	7,870.00	8,136.76	7,823.85	149.54	42.77	-91.83	-813.39	6,252.51	5,808.37	5,648.38	159.99	36.304		
18,100.00	7,870.00	8,137.03	7,824.13	150.90	42.77	-91.85	-813.39	6,252.50	5,906.62	5,746.60	160.02	36.911		
18,200.00	7,870.00	8,137.30	7,824.39	152.28	42.77	-91.86	-813.39	6,252.50	6,004.93	5,844.87	160.05	37.518		
18,300.00	7,870.00	8,137.56	7,824.65	153.67	42.77	-91.87	-813.39	6,252.50	6,103.29	5,943.21	160.08	38.125		
18,400.00	7,870.00	8,137.82	7,824.91	155.07	42.77	-91.89	-813.39	6,252.50	6,201.71	6,041.59	160.11	38.733		
18,500.00	7,870.00	8,138.07	7,825.16	156.49	42.77	-91.90	-813.40	6,252.50	6,300.17	6,140.03	160.14	39.341		
18,600.00	7,870.00	8,138.32	7,825.41	157.91	42.77	-91.91	-813.40	6,252.49	6,398.68	6,238.52	160.17	39.950		
18,700.00	7,870.00	8,138.56	7,825.65	159.35	42.77	-91.93	-813.40	6,252.49	6,497.24	6,337.05	160.19	40.559		
18,800.00	7,870.00	8,138.80	7,825.89	160.79	42.77	-91.94	-813.40	6,252.49	6,595.84	6,435.63	160.22	41.168		
18,900.00	7,870.00	8,139.04	7,826.13	162.25	42.77	-91.95	-813.40	6,252.49	6,694.49	6,534.24	160.24	41.777		
19,000.00	7,870.00	8,139.27	7,826.36	163.71	42.77	-91.96	-813.40	6,252.49	6,793.17	6,632.90	160.27	42.387		
19,100.00	7,870.00	8,139.50	7,826.59	165.18	42.77	-91.97	-813.40	6,252.49	6,891.89	6,731.60	160.29	42.996		
19,200.00	7,870.00	8,139.72	7,826.81	166.66	42.77	-91.99	-813.40	6,252.48	6,990.65	6,830.33	160.31	43.606		
19,300.00	7,870.00	8,139.94	7,827.03	168.15	42.77	-92.00	-813.40	6,252.48	7,089.44	6,929.10	160.34	44.216		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,400.00	7,870.00	8,140.16	7,827.25	169.65	42.77	-92.01	-813.40	6,252.48	7,188.27	7,027.91	160.36	44.826	
19,500.00	7,870.00	8,140.37	7,827.46	171.15	42.78	-92.02	-813.41	6,252.48	7,287.12	7,126.74	160.38	45.437	
19,600.00	7,870.00	8,140.58	7,827.67	172.66	42.78	-92.03	-813.41	6,252.48	7,386.01	7,225.61	160.40	46.047	
19,700.00	7,870.00	8,140.79	7,827.88	174.18	42.78	-92.04	-813.41	6,252.48	7,484.93	7,324.51	160.42	46.658	
19,800.00	7,870.00	8,140.99	7,828.08	175.70	42.78	-92.05	-813.41	6,252.48	7,583.87	7,423.43	160.44	47.269	
19,889.26	7,870.00	8,141.17	7,828.26	177.06	42.78	-92.06	-813.41	6,252.47	7,672.21	7,511.75	160.46	47.814	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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	1,140.70	1,118.43	0.00	5.05	83.24	614.95	5,187.90	5,359.92					
100.00	100.00	1,215.00	1,189.69	0.13	5.49	83.39	599.55	5,173.60	5,337.96	5,332.67	5.28	1,010.506		
200.00	200.00	1,288.07	1,259.81	0.49	5.92	83.54	584.24	5,159.86	5,316.45	5,310.63	5.82	914.154		
300.00	300.00	1,365.54	1,333.98	0.85	6.39	83.71	567.11	5,145.51	5,295.17	5,288.69	6.49	816.434		
400.00	399.98	1,719.12	1,670.22	1.21	8.63	16.53	487.75	5,070.63	5,268.33	5,259.67	8.66	608.700		
500.00	499.84	1,775.00	1,723.37	1.56	8.99	16.83	476.18	5,057.85	5,238.31	5,229.03	9.28	564.401		
600.00	599.45	1,860.99	1,805.25	1.93	9.54	17.25	458.36	5,038.54	5,205.61	5,195.54	10.07	517.120		
700.00	698.70	1,916.68	1,858.36	2.32	9.89	17.62	447.09	5,026.13	5,170.11	5,159.41	10.70	483.342		
800.00	797.47	1,962.00	1,901.78	2.72	10.17	17.99	438.72	5,016.25	5,132.28	5,121.00	11.28	455.008		
900.00	895.62	2,028.11	1,965.27	3.16	10.57	18.44	426.67	5,002.24	5,092.04	5,080.08	11.96	425.620		
1,000.00	993.06	2,184.06	2,114.71	3.63	11.52	19.24	397.05	4,968.96	5,048.70	5,035.61	13.09	385.679		
1,100.00	1,089.64	2,272.52	2,199.39	4.14	12.07	19.88	380.59	4,949.37	5,001.79	4,987.89	13.90	359.943		
1,200.00	1,185.27	2,357.22	2,280.50	4.70	12.59	20.58	365.21	4,930.47	4,952.01	4,937.32	14.69	337.137		
1,300.00	1,279.82	2,421.42	2,342.06	5.31	12.99	21.27	353.72	4,916.27	4,899.72	4,884.32	15.39	318.320		
1,400.00	1,373.17	2,505.79	2,422.95	5.97	13.50	22.11	338.58	4,897.75	4,844.93	4,828.73	16.20	299.045		
1,500.00	1,465.21	2,562.14	2,476.97	6.69	13.85	22.90	328.27	4,885.42	4,787.67	4,770.78	16.90	283.356		
1,600.00	1,555.84	2,617.00	2,529.58	7.47	14.18	23.77	317.96	4,873.80	4,728.40	4,710.80	17.60	268.647		
1,700.00	1,644.94	2,690.83	2,600.41	8.31	14.63	24.83	304.01	4,858.31	4,666.93	4,648.52	18.41	253.482		
1,800.00	1,732.39	2,740.17	2,647.78	9.23	14.93	25.84	294.88	4,847.94	4,603.19	4,584.07	19.12	240.710		
1,900.00	1,818.11	2,778.57	2,684.75	10.21	15.16	26.86	288.08	4,840.11	4,537.72	4,517.91	19.81	229.114		
2,000.00	1,901.97	2,000.00	2,852.69	11.26	10.43	28.99	259.04	4,803.59	4,470.14	4,453.67	16.47	271.416		
2,100.00	1,983.88	3,031.30	2,927.86	12.38	16.66	30.63	245.85	4,785.62	4,398.86	4,376.88	21.99	200.083		
2,200.00	2,063.74	3,058.07	2,953.57	13.57	16.83	31.98	241.38	4,779.62	4,326.09	4,303.40	22.69	190.629		
2,300.00	2,141.45	3,084.56	2,979.06	14.84	16.99	33.43	237.02	4,773.87	4,252.02	4,228.58	23.43	181.446		
2,327.78	2,162.65	3,109.97	3,003.52	15.21	17.14	34.05	232.84	4,768.42	4,231.18	4,207.45	23.72	178.356		
2,400.00	2,217.51	3,174.70	3,065.77	16.17	17.52	34.76	222.12	4,754.29	4,176.75	4,152.28	24.47	170.701		
2,500.00	2,293.49	3,228.70	3,117.64	17.51	17.85	35.37	213.04	4,742.35	4,101.49	4,076.10	25.38	161.577		
2,600.00	2,369.47	3,280.14	3,167.05	18.86	18.16	35.96	204.26	4,731.01	4,026.57	4,000.24	26.33	152.956		
2,700.00	2,445.45	3,326.24	3,211.30	20.22	18.44	36.51	196.19	4,720.94	3,952.08	3,924.80	27.28	144.857		
2,800.00	2,521.42	3,373.37	3,256.53	21.59	18.73	37.09	187.68	4,710.75	3,878.09	3,849.80	28.28	137.122		
2,900.00	2,597.40	3,428.84	3,309.74	22.97	19.07	37.79	177.55	4,698.81	3,804.52	3,775.17	29.36	129.598		
3,000.00	2,673.38	3,478.48	3,357.37	24.34	19.37	38.44	168.47	4,688.13	3,731.39	3,700.94	30.44	122.566		
3,100.00	2,749.36	3,520.88	3,398.05	25.73	19.63	39.00	160.66	4,679.14	3,658.84	3,627.30	31.54	116.007		
3,200.00	2,825.33	3,554.00	3,429.85	27.11	19.83	39.45	154.51	4,672.22	3,586.98	3,554.34	32.64	109.911		
3,300.00	2,901.31	3,598.23	3,472.36	28.50	20.10	40.05	146.26	4,663.19	3,515.85	3,482.03	33.82	103.958		
3,400.00	2,977.29	3,634.97	3,507.71	29.90	20.31	40.57	139.40	4,655.91	3,445.58	3,410.57	35.01	98.406		
3,500.00	3,053.27	3,647.00	3,519.30	31.29	20.39	40.74	137.16	4,653.58	3,376.33	3,340.19	36.14	93.429		
3,600.00	3,129.24	3,694.11	3,564.74	32.69	20.66	41.41	128.36	4,644.81	3,307.94	3,270.47	37.46	88.303		
3,700.00	3,205.22	3,741.00	3,610.10	34.08	20.93	42.10	119.60	4,636.76	3,240.88	3,202.05	38.83	83.463		
3,800.00	3,281.20	3,778.70	3,646.59	35.48	21.14	42.66	112.53	4,630.47	3,174.72	3,134.52	40.20	78.966		
3,900.00	3,357.18	3,921.11	3,784.02	36.88	21.96	44.87	85.56	4,604.71	3,108.73	3,066.60	42.13	73.793		
4,000.00	3,433.15	3,990.42	3,850.76	38.29	22.37	45.99	72.83	4,590.99	3,042.29	2,998.52	43.76	69.518		
4,100.00	3,509.13	4,047.40	3,905.65	39.69	22.71	46.94	62.60	4,579.62	2,976.52	2,931.13	45.39	65.570		
4,200.00	3,585.11	4,096.83	3,953.35	41.09	23.00	47.77	54.03	4,569.92	2,911.71	2,864.66	47.04	61.893		
4,300.00	3,661.08	4,162.99	4,017.30	42.50	23.38	48.90	42.93	4,557.06	2,847.83	2,799.00	48.82	58.332		
4,400.00	3,737.06	4,232.44	4,084.35	43.90	23.78	50.13	31.33	4,543.19	2,784.55	2,733.87	50.68	54.944		
4,500.00	3,813.04	4,287.20	4,137.03	45.31	24.11	51.14	21.44	4,532.02	2,722.23	2,669.67	52.56	51.797		
4,600.00	3,889.02	4,357.68	4,204.61	46.71	24.54	52.49	7.83	4,517.29	2,660.95	2,606.35	54.60	48.735		
4,700.00	3,964.99	4,427.32	4,271.27	48.12	24.97	53.87	-5.56	4,502.26	2,600.48	2,543.76	56.72	45.848		
4,800.00	4,040.97	4,486.58	4,327.87	49.53	25.35	55.08	-17.27	4,489.18	2,541.16	2,482.29	58.87	43.168		
4,900.00	4,116.95	4,549.66	4,387.96	50.94	25.75	56.40	-30.13	4,474.96	2,483.12	2,421.99	61.13	40.623		
5,000.00	4,192.93	4,612.09	4,447.29	52.35	26.16	57.75	-43.15	4,460.53	2,426.43	2,362.96	63.47	38.232		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,268.90	4,674.05	4,506.08	53.76	26.57	59.12	-56.15	4,445.94	2,371.21	2,305.32	65.89	35.990		
5,200.00	4,344.88	4,744.41	4,572.89	55.16	27.03	60.72	-70.48	4,429.13	2,317.49	2,249.07	68.42	33.871		
5,300.00	4,420.86	4,794.16	4,620.22	56.57	27.35	61.85	-80.12	4,417.18	2,265.41	2,194.51	70.89	31.956		
5,400.00	4,496.84	4,830.06	4,654.34	57.98	27.59	62.69	-87.35	4,408.69	2,215.68	2,142.35	73.34	30.212		
5,500.00	4,572.81	4,866.00	4,688.46	59.39	27.82	63.54	-94.92	4,400.33	2,168.56	2,092.73	75.83	28.597		
5,600.00	4,648.79	4,907.77	4,728.15	60.81	28.09	64.54	-103.86	4,390.85	2,124.13	2,045.72	78.41	27.091		
5,700.00	4,724.77	4,950.85	4,769.18	62.22	28.37	65.58	-112.96	4,381.41	2,082.46	2,001.44	81.02	25.704		
5,800.00	4,800.74	5,016.99	4,832.29	63.63	28.79	67.19	-126.66	4,367.14	2,043.44	1,959.61	83.82	24.378		
5,900.00	4,876.72	5,077.76	4,890.30	65.04	29.18	68.69	-138.92	4,353.79	2,006.79	1,920.20	86.59	23.175		
6,000.00	4,952.70	5,128.94	4,939.25	66.45	29.50	69.96	-149.01	4,342.77	1,973.06	1,883.78	89.28	22.100		
6,100.00	5,028.68	5,187.01	4,994.98	67.86	29.84	71.41	-160.00	4,330.72	1,942.37	1,850.40	91.98	21.118		
6,200.00	5,104.65	5,251.72	5,057.49	69.27	30.23	73.01	-171.04	4,318.17	1,914.58	1,819.91	94.67	20.224		
6,300.00	5,180.63	5,309.49	5,113.74	70.69	30.53	74.42	-179.64	4,308.18	1,889.80	1,792.61	97.19	19.444		
6,400.00	5,256.61	5,369.36	5,172.43	72.10	30.82	75.86	-187.32	4,299.17	1,868.06	1,768.43	99.63	18.750		
6,500.00	5,332.59	5,430.13	5,232.30	73.51	31.10	77.30	-194.19	4,291.34	1,849.44	1,747.47	101.97	18.138		
6,600.00	5,408.56	5,486.91	5,288.45	74.92	31.33	78.63	-199.93	4,285.23	1,833.99	1,729.85	104.14	17.610		
6,700.00	5,484.54	5,552.43	5,353.45	76.34	31.59	80.14	-205.85	4,279.60	1,821.71	1,715.46	106.25	17.145		
6,800.00	5,560.52	5,629.67	5,430.29	77.75	31.87	81.89	-211.76	4,274.33	1,812.11	1,703.83	108.28	16.735		
6,900.00	5,636.50	5,717.74	5,518.13	79.16	32.15	83.83	-216.61	4,270.31	1,804.76	1,694.55	110.21	16.376		
7,000.00	5,712.47	5,809.91	5,610.22	80.57	32.40	85.81	-219.45	4,268.30	1,799.29	1,687.30	111.99	16.067		
7,100.00	5,788.45	5,897.62	5,697.92	81.99	32.60	87.64	-220.48	4,268.09	1,795.64	1,682.04	113.60	15.806		
7,200.00	5,864.43	5,972.10	5,772.40	83.40	32.75	89.18	-220.84	4,268.45	1,794.10	1,679.03	115.07	15.591		
7,214.14	5,875.17	5,982.67	5,782.98	83.60	32.77	89.40	-220.90	4,268.50	1,794.08	1,678.81	115.27	15.564		
7,300.00	5,940.40	6,047.86	5,848.16	84.81	32.91	90.75	-221.30	4,268.69	1,794.95	1,678.51	116.43	15.416		
7,400.00	6,016.38	6,122.31	5,922.62	86.23	33.08	92.30	-221.82	4,268.80	1,798.17	1,680.48	117.69	15.279		
7,500.00	6,092.36	6,196.34	5,996.64	87.64	33.25	93.83	-222.42	4,268.93	1,803.82	1,685.00	118.82	15.181		
7,600.00	6,168.34	6,272.43	6,072.73	89.05	33.42	95.40	-223.06	4,269.11	1,811.83	1,691.98	119.85	15.118		
7,700.00	6,244.31	6,352.67	6,152.96	90.47	33.60	97.04	-223.61	4,269.41	1,822.04	1,701.27	120.77	15.087		
7,800.00	6,320.29	6,431.31	6,231.60	91.88	33.77	98.63	-223.97	4,269.76	1,834.34	1,712.76	121.58	15.088		
7,900.00	6,396.27	6,508.91	6,309.20	93.30	33.94	100.19	-224.26	4,270.00	1,848.75	1,726.47	122.28	15.119		
8,000.00	6,472.25	6,585.87	6,386.16	94.71	34.12	101.73	-224.52	4,270.08	1,865.26	1,742.39	122.87	15.180		
8,100.00	6,548.22	6,663.28	6,463.57	96.12	34.30	103.26	-224.74	4,270.22	1,883.84	1,760.46	123.38	15.269		
8,200.00	6,624.20	6,742.12	6,542.41	97.54	34.47	104.79	-224.87	4,270.36	1,904.36	1,780.57	123.79	15.384		
8,300.00	6,700.18	6,812.41	6,612.70	98.95	34.63	106.14	-225.04	4,270.58	1,926.92	1,802.82	124.10	15.527		
8,400.00	6,776.16	6,886.90	6,687.19	100.37	34.80	107.54	-225.38	4,271.00	1,951.52	1,827.18	124.35	15.694		
8,500.00	6,852.13	6,964.44	6,764.73	101.78	34.97	108.97	-225.73	4,271.59	1,977.95	1,853.41	124.54	15.882		
8,600.00	6,928.11	7,043.49	6,843.77	103.20	35.15	110.40	-226.01	4,272.44	2,006.01	1,881.33	124.68	16.089		
8,700.00	7,004.09	7,121.40	6,921.67	104.61	35.32	111.79	-226.21	4,273.18	2,035.65	1,910.88	124.77	16.316		
8,800.00	7,080.06	7,196.37	6,996.64	106.02	35.49	113.10	-226.40	4,273.80	2,066.88	1,942.08	124.79	16.562		
8,900.00	7,156.04	7,271.52	7,071.79	107.44	35.66	114.39	-226.63	4,274.42	2,099.67	1,974.89	124.78	16.827		
9,000.00	7,232.02	7,345.97	7,146.24	108.85	35.83	115.64	-226.90	4,275.00	2,133.96	2,009.23	124.74	17.108		
9,104.68	7,311.55	7,424.08	7,224.35	110.33	36.02	116.92	-227.26	4,275.57	2,171.42	2,046.76	124.67	17.418		
9,150.00	7,346.29	7,458.57	7,258.83	110.97	36.10	117.96	-227.43	4,275.78	2,186.45	2,061.83	124.62	17.544		
9,200.00	7,385.15	7,497.11	7,297.37	111.65	36.19	118.64	-227.61	4,275.97	2,199.47	2,074.90	124.56	17.657		
9,250.00	7,424.29	7,535.88	7,336.14	112.31	36.29	119.40	-227.79	4,276.13	2,208.69	2,084.21	124.48	17.743		
9,300.00	7,463.40	7,574.58	7,374.84	112.93	36.38	120.19	-227.97	4,276.24	2,214.10	2,089.72	124.38	17.801		
9,350.00	7,502.19	7,613.20	7,413.46	113.51	36.48	120.99	-228.16	4,276.36	2,215.68	2,091.44	124.24	17.833		
9,400.00	7,540.36	7,651.36	7,451.62	114.04	36.57	121.79	-228.37	4,276.53	2,213.46	2,089.38	124.08	17.839		
9,450.00	7,577.62	7,690.22	7,490.48	114.53	36.66	122.59	-228.60	4,276.77	2,207.46	2,083.58	123.88	17.819		
9,500.00	7,613.70	7,729.87	7,530.13	114.95	36.76	123.39	-228.79	4,277.05	2,197.72	2,074.06	123.66	17.773		
9,550.00	7,648.30	7,767.92	7,568.18	115.32	36.85	124.19	-228.92	4,277.35	2,184.31	2,060.92	123.39	17.703		
9,600.00	7,681.18	7,801.78	7,602.04	115.63	36.93	124.99	-229.02	4,277.63	2,167.37	2,044.32	123.05	17.613		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,650.00	7,712.08	7,833.66	7,633.91	115.88	37.01	68.78	-229.10	4,277.89	2,147.06	2,024.39	122.67	17.502		
9,700.00	7,740.76	7,863.24	7,663.49	116.08	37.08	67.66	-229.16	4,278.14	2,123.53	2,001.29	122.24	17.371		
9,750.00	7,767.01	7,889.36	7,689.61	116.23	37.14	67.15	-229.22	4,278.37	2,096.97	1,975.21	121.76	17.222		
9,800.00	7,790.63	7,912.97	7,713.22	116.33	37.20	67.29	-229.27	4,278.56	2,067.56	1,946.32	121.23	17.054		
9,850.00	7,811.44	7,933.80	7,734.04	116.38	37.25	68.10	-229.32	4,278.74	2,035.50	1,914.83	120.66	16.869		
9,900.00	7,829.28	7,951.67	7,751.92	116.38	37.29	69.61	-229.36	4,278.89	2,001.00	1,880.95	120.05	16.668		
9,950.00	7,844.01	7,966.22	7,766.47	116.35	37.32	71.87	-229.40	4,279.01	1,964.30	1,844.90	119.40	16.451		
10,000.00	7,855.52	7,977.62	7,777.87	116.28	37.35	75.00	-229.44	4,279.11	1,925.63	1,806.90	118.73	16.219		
10,050.00	7,863.72	7,985.82	7,786.07	116.18	37.37	79.09	-229.46	4,279.19	1,885.22	1,767.19	118.03	15.972		
10,100.00	7,868.56	7,990.74	7,790.99	116.06	37.38	84.30	-229.48	4,279.23	1,843.33	1,726.00	117.33	15.711		
10,145.94	7,870.00	7,992.32	7,792.57	115.92	37.39	90.17	-229.49	4,279.25	1,803.75	1,687.08	116.67	15.460		
10,200.00	7,870.00	7,992.52	7,792.76	115.76	37.39	90.18	-229.49	4,279.25	1,756.84	1,640.96	115.88	15.161		
10,300.00	7,870.00	7,992.88	7,793.12	115.46	37.39	90.20	-229.49	4,279.25	1,671.21	1,556.94	114.27	14.625		
10,400.00	7,870.00	7,993.24	7,793.49	115.18	37.39	90.23	-229.49	4,279.26	1,587.26	1,474.80	112.46	14.114		
10,500.00	7,870.00	7,993.61	7,793.85	114.91	37.39	90.25	-229.49	4,279.26	1,505.28	1,394.85	110.43	13.632		
10,600.00	7,870.00	7,993.98	7,794.22	114.65	37.39	90.27	-229.49	4,279.26	1,425.59	1,317.46	108.13	13.184		
10,700.00	7,870.00	7,994.35	7,794.59	114.41	37.39	90.30	-229.49	4,279.27	1,348.62	1,243.07	105.55	12.778		
10,800.00	7,870.00	7,994.72	7,794.97	114.17	37.39	90.32	-229.50	4,279.27	1,274.84	1,172.19	102.65	12.419		
10,900.00	7,870.00	7,995.09	7,795.34	113.95	37.39	90.35	-229.50	4,279.28	1,204.86	1,105.43	99.43	12.117		
11,000.00	7,870.00	7,995.47	7,795.72	113.75	37.40	90.37	-229.50	4,279.28	1,139.36	1,043.45	95.91	11.880		
11,100.00	7,870.00	7,995.85	7,796.10	113.55	37.40	90.39	-229.50	4,279.28	1,079.16	987.02	92.14	11.712		
11,200.00	7,870.00	7,996.23	7,796.48	113.37	37.40	90.42	-229.50	4,279.29	1,025.21	936.92	88.29	11.612		
11,300.00	7,870.00	7,996.62	7,796.87	113.20	37.40	90.44	-229.50	4,279.29	978.52	893.90	84.62	11.563		
11,400.00	7,870.00	7,997.01	7,797.25	113.04	37.40	90.47	-229.50	4,279.29	940.19	858.59	81.60	11.521		
11,500.00	7,870.00	7,997.40	7,797.64	112.89	37.40	90.49	-229.51	4,279.30	911.27	831.43	79.84	11.414		
11,600.00	7,870.00	7,997.79	7,798.03	112.76	37.40	90.52	-229.51	4,279.30	892.67	812.72	79.95	11.165		
11,700.00	7,870.00	7,998.18	7,798.43	112.64	37.40	90.55	-229.51	4,279.30	885.05	802.78	82.27	10.758		
11,717.74	7,870.00	7,998.25	7,798.50	112.62	37.40	90.55	-229.51	4,279.31	884.87	801.97	82.90	10.673 CC, ES		
11,800.00	7,870.00	7,998.58	7,798.83	112.53	37.40	90.57	-229.51	4,279.31	888.69	802.14	86.55	10.268		
11,900.00	7,870.00	7,998.98	7,799.23	112.44	37.40	90.60	-229.51	4,279.31	903.45	811.32	92.13	9.806		
12,000.00	7,870.00	7,999.38	7,799.63	112.36	37.41	90.62	-229.51	4,279.32	928.80	830.57	98.24	9.455		
12,100.00	7,870.00	7,999.79	7,800.03	112.29	37.41	90.65	-229.52	4,279.32	963.91	859.66	104.25	9.246		
12,200.00	7,870.00	8,000.19	7,800.44	112.24	37.41	90.68	-229.52	4,279.32	1,007.76	897.97	109.79	9.179 SF		
12,300.00	7,870.00	8,000.60	7,800.85	112.20	37.41	90.70	-229.52	4,279.33	1,059.26	944.59	114.67	9.238		
12,400.00	7,870.00	8,001.02	7,801.26	112.17	37.41	90.73	-229.52	4,279.33	1,117.35	998.51	118.84	9.402		
12,500.00	7,870.00	8,001.43	7,801.68	112.16	37.41	90.76	-229.52	4,279.34	1,181.07	1,058.73	122.34	9.654		
12,600.00	7,870.00	8,001.85	7,802.09	112.17	37.41	90.78	-229.52	4,279.34	1,249.55	1,124.31	125.24	9.977		
12,700.00	7,870.00	8,002.27	7,802.52	112.19	37.41	90.81	-229.53	4,279.34	1,322.05	1,194.42	127.63	10.358		
12,800.00	7,870.00	8,002.69	7,802.94	112.23	37.41	90.84	-229.53	4,279.35	1,397.96	1,268.36	129.60	10.787		
12,900.00	7,870.00	8,003.12	7,803.37	112.28	37.41	90.87	-229.53	4,279.35	1,476.73	1,345.52	131.21	11.255		
13,000.00	7,870.00	8,003.55	7,803.79	112.36	37.42	90.89	-229.53	4,279.36	1,557.94	1,425.41	132.53	11.755		
13,100.00	7,870.00	8,003.98	7,804.23	112.45	37.42	90.92	-229.53	4,279.36	1,641.23	1,507.61	133.62	12.283		
13,200.00	7,870.00	8,004.42	7,804.66	112.56	37.42	90.95	-229.53	4,279.37	1,726.29	1,591.77	134.52	12.833		
13,300.00	7,870.00	8,004.85	7,805.10	112.68	37.42	90.98	-229.54	4,279.37	1,812.88	1,677.62	135.26	13.403		
13,400.00	7,870.00	8,005.29	7,805.54	112.83	37.42	91.01	-229.54	4,279.37	1,900.78	1,764.91	135.87	13.989		
13,500.00	7,870.00	8,005.74	7,805.98	113.00	37.42	91.03	-229.54	4,279.38	1,989.83	1,853.44	136.39	14.590		
13,600.00	7,870.00	8,006.18	7,806.43	113.19	37.42	91.06	-229.54	4,279.38	2,079.87	1,943.06	136.81	15.203		
13,700.00	7,870.00	8,006.63	7,806.88	113.40	37.42	91.09	-229.54	4,279.39	2,170.79	2,033.62	137.17	15.826		
13,800.00	7,870.00	8,007.09	7,807.33	113.63	37.42	91.12	-229.55	4,279.39	2,262.47	2,125.00	137.46	16.459		
13,900.00	7,870.00	8,007.54	7,807.79	113.89	37.43	91.15	-229.55	4,279.40	2,354.82	2,217.11	137.71	17.100		
14,000.00	7,870.00	8,008.00	7,808.25	114.18	37.43	91.18	-229.55	4,279.40	2,447.78	2,309.86	137.92	17.748		
14,100.00	7,870.00	8,008.46	7,808.71	114.48	37.43	91.21	-229.55	4,279.41	2,541.28	2,403.18	138.10	18.402		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,200.00	7,870.00	8,008.93	7,809.17	114.82	37.43	91.24	-229.55	4,279.41	2,635.25	2,497.00	138.24	19.062		
14,300.00	7,870.00	8,009.40	7,809.64	115.18	37.43	91.27	-229.55	4,279.41	2,729.65	2,591.28	138.37	19.727		
14,400.00	7,870.00	8,009.87	7,810.11	115.57	37.43	91.30	-229.56	4,279.42	2,824.43	2,685.96	138.47	20.397		
14,500.00	7,870.00	8,010.34	7,810.59	115.99	37.43	91.33	-229.56	4,279.42	2,919.57	2,781.01	138.56	21.071		
14,600.00	7,870.00	8,010.82	7,811.07	116.44	37.43	91.36	-229.56	4,279.43	3,015.01	2,876.38	138.63	21.748		
14,700.00	7,870.00	8,011.30	7,811.55	116.92	37.43	91.40	-229.56	4,279.43	3,110.75	2,972.05	138.69	22.429		
14,800.00	7,870.00	8,011.79	7,812.04	117.44	37.44	91.43	-229.57	4,279.44	3,206.74	3,068.00	138.75	23.112		
14,900.00	7,870.00	8,012.28	7,812.52	117.98	37.44	91.46	-229.57	4,279.44	3,302.97	3,164.19	138.79	23.799		
15,000.00	7,870.00	8,012.77	7,813.02	118.56	37.44	91.49	-229.57	4,279.45	3,399.42	3,260.60	138.82	24.488		
15,100.00	7,870.00	8,013.27	7,813.51	119.17	37.44	91.52	-229.57	4,279.45	3,496.07	3,357.22	138.85	25.179		
15,200.00	7,870.00	8,013.77	7,814.01	119.81	37.44	91.55	-229.57	4,279.46	3,592.90	3,454.03	138.87	25.872		
15,300.00	7,870.00	8,014.27	7,814.51	120.48	37.44	91.59	-229.58	4,279.46	3,689.90	3,551.01	138.89	26.566		
15,400.00	7,870.00	8,014.77	7,815.02	121.19	37.44	91.62	-229.58	4,279.47	3,787.06	3,648.15	138.91	27.263		
15,500.00	7,870.00	8,015.28	7,815.53	121.93	37.44	91.65	-229.58	4,279.47	3,884.36	3,745.44	138.92	27.961		
15,600.00	7,870.00	8,015.80	7,816.04	122.71	37.45	91.69	-229.58	4,279.48	3,981.80	3,842.87	138.93	28.661		
15,700.00	7,870.00	8,016.32	7,816.56	123.52	37.45	91.72	-229.58	4,279.48	4,079.36	3,940.42	138.94	29.361		
15,800.00	7,870.00	8,016.84	7,817.08	124.36	37.45	91.75	-229.59	4,279.49	4,177.03	4,038.09	138.94	30.063		
15,900.00	7,870.00	8,017.36	7,817.61	125.23	37.45	91.79	-229.59	4,279.49	4,274.81	4,135.87	138.94	30.767		
16,000.00	7,870.00	8,017.89	7,818.14	126.14	37.45	91.82	-229.59	4,279.50	4,372.70	4,233.75	138.95	31.471		
16,100.00	7,870.00	8,018.42	7,818.67	127.07	37.45	91.86	-229.59	4,279.50	4,470.67	4,331.73	138.95	32.176		
16,200.00	7,870.00	8,018.96	7,819.20	128.04	37.45	91.89	-229.60	4,279.51	4,568.73	4,429.79	138.95	32.882		
16,300.00	7,870.00	8,019.50	7,819.75	129.04	37.45	91.93	-229.60	4,279.52	4,666.88	4,527.94	138.94	33.588		
16,400.00	7,870.00	8,020.04	7,820.29	130.06	37.46	91.96	-229.60	4,279.52	4,765.10	4,626.16	138.94	34.296		
16,500.00	7,870.00	8,020.59	7,820.84	131.11	37.46	92.00	-229.60	4,279.53	4,863.40	4,724.46	138.94	35.004		
16,600.00	7,870.00	8,021.15	7,821.39	132.19	37.46	92.03	-229.61	4,279.53	4,961.76	4,822.82	138.94	35.712		
16,700.00	7,870.00	8,021.70	7,821.95	133.29	37.46	92.07	-229.61	4,279.54	5,060.19	4,921.25	138.94	36.421		
16,800.00	7,870.00	8,022.27	7,822.51	134.42	37.46	92.10	-229.61	4,279.54	5,158.68	5,019.74	138.93	37.131		
16,900.00	7,870.00	8,022.83	7,823.08	135.57	37.46	92.14	-229.61	4,279.55	5,257.22	5,118.29	138.93	37.841		
17,000.00	7,870.00	8,023.40	7,823.65	136.75	37.46	92.18	-229.62	4,279.56	5,355.82	5,216.89	138.93	38.551		
17,100.00	7,870.00	8,023.97	7,824.22	137.94	37.46	92.22	-229.62	4,279.56	5,454.47	5,315.55	138.92	39.262		
17,200.00	7,870.00	8,024.55	7,824.80	139.16	37.47	92.25	-229.62	4,279.57	5,553.17	5,414.25	138.92	39.974		
17,300.00	7,870.00	8,025.14	7,825.38	140.39	37.47	92.29	-229.63	4,279.57	5,651.91	5,512.99	138.92	40.685		
17,400.00	7,870.00	8,025.72	7,825.97	141.65	37.47	92.33	-229.63	4,279.58	5,750.70	5,611.78	138.92	41.397		
17,500.00	7,870.00	8,026.32	7,826.56	142.92	37.47	92.37	-229.63	4,279.59	5,849.53	5,710.61	138.91	42.109		
17,600.00	7,870.00	8,026.91	7,827.16	144.21	37.47	92.41	-229.63	4,279.59	5,948.39	5,809.48	138.91	42.821		
17,700.00	7,870.00	8,027.52	7,827.76	145.52	37.47	92.44	-229.64	4,279.60	6,047.30	5,908.39	138.91	43.533		
17,800.00	7,870.00	8,028.12	7,828.37	146.84	37.47	92.48	-229.64	4,279.60	6,146.24	6,007.33	138.91	44.246		
17,900.00	7,870.00	8,028.73	7,828.98	148.18	37.48	92.52	-229.64	4,279.61	6,245.21	6,106.30	138.91	44.959		
18,000.00	7,870.00	8,029.35	7,829.59	149.54	37.48	92.56	-229.65	4,279.62	6,344.22	6,205.31	138.91	45.671		
18,100.00	7,870.00	8,029.97	7,830.21	150.90	37.48	92.60	-229.65	4,279.62	6,443.25	6,304.34	138.91	46.384		
18,200.00	7,870.00	8,030.60	7,830.84	152.28	37.48	92.64	-229.65	4,279.63	6,542.32	6,403.41	138.91	47.097		
18,300.00	7,870.00	8,031.23	7,831.47	153.67	37.48	92.68	-229.65	4,279.64	6,641.41	6,502.50	138.91	47.810		
18,400.00	7,870.00	8,031.86	7,832.11	155.07	37.48	92.73	-229.66	4,279.64	6,740.53	6,601.62	138.91	48.523		
18,500.00	7,870.00	8,032.50	7,832.75	156.49	37.49	92.77	-229.66	4,279.65	6,839.68	6,700.76	138.92	49.236		
18,600.00	7,870.00	8,033.15	7,833.39	157.91	37.49	92.81	-229.66	4,279.66	6,938.85	6,799.93	138.92	49.949		
18,700.00	7,870.00	8,033.80	7,834.05	159.35	37.49	92.85	-229.67	4,279.66	7,038.04	6,899.12	138.92	50.662		
18,800.00	7,870.00	8,034.46	7,834.70	160.79	37.49	92.89	-229.67	4,279.67	7,137.26	6,998.34	138.92	51.375		
18,900.00	7,870.00	8,035.12	7,835.36	162.25	37.49	92.94	-229.67	4,279.68	7,236.50	7,097.57	138.93	52.088		
19,000.00	7,870.00	8,035.79	7,836.03	163.71	37.49	92.98	-229.68	4,279.69	7,335.76	7,196.82	138.93	52.801		
19,100.00	7,870.00	8,036.46	7,836.71	165.18	37.50	93.02	-229.68	4,279.69	7,435.03	7,296.10	138.94	53.514		
19,200.00	7,870.00	8,037.14	7,837.38	166.66	37.50	93.07	-229.68	4,279.70	7,534.33	7,395.39	138.94	54.226		
19,300.00	7,870.00	8,037.83	7,838.07	168.15	37.50	93.11	-229.69	4,279.71	7,633.65	7,494.70	138.95	54.939		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,400.00	7,870.00	8,038.52	7,838.76	169.65	37.50	93.16	-229.69	4,279.71	7,732.98	7,594.03	138.95	55.651	
19,500.00	7,870.00	8,039.21	7,839.46	171.15	37.50	93.20	-229.70	4,279.72	7,832.33	7,693.37	138.96	56.364	
19,600.00	7,870.00	8,039.91	7,840.16	172.66	37.50	93.25	-229.70	4,279.73	7,931.70	7,792.73	138.97	57.076	
19,700.00	7,870.00	8,040.62	7,840.87	174.18	37.51	93.29	-229.70	4,279.74	8,031.08	7,892.10	138.98	57.788	
19,800.00	7,870.00	8,041.34	7,841.58	175.70	37.51	93.34	-229.71	4,279.74	8,130.48	7,991.49	138.98	58.500	
19,889.26	7,870.00	8,041.98	7,842.22	177.06	37.51	93.38	-229.71	4,279.75	8,219.21	8,080.21	138.99	59.135	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	134.79	-2,069.07	2,083.95	2,937.00					
100.00	100.00	72.64	72.64	0.13	0.12	134.80	-2,068.96	2,083.76	2,936.49	2,936.23	0.25	N/A		
200.00	200.00	185.35	185.35	0.49	0.43	134.80	-2,068.40	2,082.84	2,935.54	2,934.63	0.92	3,198.082		
300.00	300.00	300.59	300.58	0.85	0.84	134.80	-2,067.41	2,081.82	2,934.31	2,932.63	1.69	1,736.894		
400.00	399.98	395.76	395.73	1.21	1.18	66.73	-2,066.41	2,080.81	2,932.14	2,929.76	2.38	1,229.624		
500.00	499.84	486.70	486.67	1.56	1.50	66.86	-2,065.29	2,080.36	2,928.85	2,925.78	3.06	955.991		
600.00	599.45	644.98	644.90	1.93	2.07	67.19	-2,061.94	2,078.71	2,923.11	2,919.12	4.00	731.403		
700.00	698.70	764.65	764.49	2.32	2.50	67.59	-2,058.34	2,076.42	2,914.90	2,910.09	4.81	606.514		
800.00	797.47	854.08	853.86	2.72	2.82	68.00	-2,055.26	2,074.92	2,905.26	2,899.73	5.53	525.763		
900.00	895.62	1,711.86	1,697.77	3.16	6.37	71.38	-1,950.63	1,990.67	2,889.44	2,880.52	8.93	323.715		
1,000.00	993.06	1,947.38	1,921.39	3.63	7.68	73.27	-1,895.36	1,941.75	2,851.44	2,841.27	10.17	280.273		
1,100.00	1,089.64	2,102.27	2,066.25	4.14	8.64	75.05	-1,853.83	1,905.97	2,808.19	2,797.01	11.19	251.067		
1,200.00	1,185.27	2,189.80	2,147.67	4.70	9.21	76.61	-1,829.79	1,884.66	2,763.17	2,751.15	12.02	229.922		
1,300.00	1,279.82	2,251.00	2,204.77	5.31	9.61	78.07	-1,813.38	1,869.98	2,718.34	2,705.52	12.82	212.093		
1,400.00	1,373.17	2,321.37	2,270.59	5.97	10.07	79.69	-1,795.04	1,853.13	2,673.79	2,660.09	13.70	195.165		
1,500.00	1,465.21	2,397.97	2,342.30	6.69	10.58	81.45	-1,775.45	1,834.65	2,629.38	2,614.72	14.66	179.339		
1,600.00	1,555.84	2,474.88	2,414.34	7.47	11.09	83.28	-1,755.30	1,816.78	2,585.20	2,569.51	15.69	164.795		
1,700.00	1,644.94	2,556.16	2,490.50	8.31	11.63	85.24	-1,733.70	1,798.36	2,541.42	2,524.62	16.79	151.338		
1,800.00	1,732.39	2,646.89	2,575.34	9.23	12.24	87.43	-1,709.56	1,777.14	2,497.79	2,479.79	18.00	138.803		
1,900.00	1,818.11	2,717.51	2,641.34	10.21	12.72	89.42	-1,690.83	1,760.39	2,454.94	2,435.71	19.22	127.699		
2,000.00	1,901.97	2,782.81	2,702.43	11.26	13.17	91.36	-1,673.45	1,745.20	2,413.38	2,392.85	20.52	117.590		
2,100.00	1,983.88	2,865.38	2,779.69	12.38	13.74	93.63	-1,651.24	1,726.37	2,373.30	2,351.35	21.95	108.145		
2,200.00	2,063.74	2,971.25	2,878.26	13.57	14.48	96.40	-1,622.43	1,700.64	2,334.20	2,310.70	23.50	99.338		
2,300.00	2,141.45	3,049.64	2,950.87	14.84	15.05	98.72	-1,600.16	1,681.20	2,296.31	2,271.23	25.08	91.553		
2,327.78	2,162.65	3,067.29	2,967.20	15.21	15.18	99.28	-1,595.15	1,676.78	2,286.20	2,260.67	25.53	89.551		
2,400.00	2,217.51	3,108.54	3,005.37	16.17	15.48	100.11	-1,583.46	1,666.39	2,260.74	2,234.03	26.71	84.642		
2,500.00	2,293.49	3,153.55	3,047.10	17.51	15.80	101.03	-1,570.96	1,655.06	2,227.72	2,199.36	28.36	78.549		
2,600.00	2,369.47	3,202.84	3,092.92	18.86	16.16	102.05	-1,557.64	1,642.71	2,197.48	2,167.42	30.05	73.121		
2,700.00	2,445.45	3,277.01	3,161.88	20.22	16.69	103.59	-1,537.41	1,624.37	2,169.60	2,137.80	31.80	68.221		
2,800.00	2,521.42	3,342.33	3,222.55	21.59	17.17	104.96	-1,519.30	1,608.31	2,143.98	2,110.42	33.56	63.886		
2,900.00	2,597.40	3,410.59	3,285.88	22.97	17.67	106.41	-1,500.43	1,591.21	2,120.86	2,085.53	35.33	60.022		
3,000.00	2,673.38	3,488.52	3,358.00	24.34	18.24	108.09	-1,478.56	1,571.37	2,100.08	2,062.96	37.13	56.563		
3,100.00	2,749.36	3,579.06	3,441.41	25.73	18.92	110.06	-1,452.30	1,547.91	2,081.38	2,042.45	38.93	53.463		
3,200.00	2,825.33	3,625.01	3,483.75	27.11	19.27	111.07	-1,438.85	1,536.14	2,065.39	2,024.70	40.70	50.750		
3,300.00	2,901.31	3,673.96	3,528.98	28.50	19.64	112.14	-1,424.68	1,523.96	2,052.64	2,010.19	42.45	48.353		
3,400.00	2,977.29	3,717.11	3,569.02	29.90	19.95	113.08	-1,412.49	1,513.44	2,043.32	1,999.14	44.18	46.254		
3,500.00	3,053.27	3,761.16	3,610.04	31.29	20.27	114.04	-1,400.42	1,502.87	2,037.53	1,991.66	45.87	44.420		
3,600.00	3,129.24	3,836.79	3,680.57	32.69	20.82	115.69	-1,379.75	1,484.99	2,034.78	1,987.23	47.55	42.791		
3,654.20	3,170.43	3,875.08	3,716.23	33.44	21.10	116.53	-1,369.12	1,475.97	2,034.37	1,985.92	48.45	41.993 CC		
3,700.00	3,205.22	3,905.21	3,744.23	34.08	21.32	117.19	-1,360.75	1,468.67	2,034.67	1,985.48	49.19	41.363 ES		
3,800.00	3,281.20	3,971.28	3,805.47	35.48	21.80	118.65	-1,342.36	1,452.01	2,037.45	1,986.67	50.78	40.121		
3,900.00	3,357.18	4,041.77	3,870.78	36.88	22.33	120.20	-1,322.52	1,434.46	2,043.05	1,990.72	52.33	39.042		
4,000.00	3,433.15	4,102.90	3,927.53	38.29	22.78	121.53	-1,305.21	1,419.70	2,051.50	1,997.70	53.80	38.130		
4,100.00	3,509.13	4,161.01	3,981.58	39.69	23.20	122.79	-1,288.84	1,406.02	2,062.91	2,007.70	55.21	37.364		
4,200.00	3,585.11	4,214.34	4,031.24	41.09	23.59	123.94	-1,274.03	1,393.41	2,077.41	2,020.86	56.55	36.738		
4,300.00	3,661.08	4,287.51	4,099.37	42.50	24.12	125.51	-1,253.79	1,376.01	2,094.77	2,036.93	57.84	36.218		
4,400.00	3,737.06	4,358.20	4,165.06	43.90	24.64	127.01	-1,233.76	1,359.25	2,114.39	2,055.33	59.06	35.799		
4,500.00	3,813.04	4,417.38	4,219.96	45.31	25.08	128.26	-1,216.97	1,344.94	2,136.69	2,076.48	60.21	35.489		
4,600.00	3,889.02	4,474.58	4,273.05	46.71	25.50	129.46	-1,200.83	1,331.03	2,161.69	2,100.41	61.28	35.276		
4,700.00	3,964.99	4,529.40	4,324.04	48.12	25.90	130.60	-1,185.57	1,317.88	2,189.35	2,127.07	62.28	35.154		
4,800.00	4,040.97	4,578.17	4,369.56	49.53	26.25	131.59	-1,172.34	1,306.40	2,219.72	2,156.52	63.20	35.124 SF		
4,900.00	4,116.95	4,626.80	4,415.12	50.94	26.60	132.57	-1,159.56	1,295.20	2,252.75	2,188.70	64.05	35.173		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,192.93	4,675.12	4,460.63	52.35	26.93	133.51	-1,147.37	1,284.46	2,288.32	2,223.49	64.83	35.298		
5,100.00	4,268.90	4,724.35	4,507.23	53.76	27.26	134.46	-1,135.50	1,273.96	2,326.30	2,260.74	65.55	35.487		
5,200.00	4,344.88	4,774.38	4,554.83	55.16	27.58	135.39	-1,124.00	1,263.71	2,366.52	2,300.30	66.22	35.735		
5,300.00	4,420.86	4,822.54	4,600.88	56.57	27.87	136.26	-1,113.50	1,254.28	2,408.87	2,342.03	66.84	36.042		
5,400.00	4,496.84	4,869.31	4,645.86	57.98	28.15	137.08	-1,104.03	1,245.67	2,453.30	2,385.90	67.40	36.401		
5,500.00	4,572.81	4,926.13	4,700.81	59.39	28.47	138.04	-1,093.40	1,235.91	2,499.60	2,431.65	67.95	36.784		
5,600.00	4,648.79	4,993.22	4,765.93	60.81	28.84	139.13	-1,081.40	1,225.13	2,547.28	2,478.76	68.52	37.176		
5,700.00	4,724.77	5,044.23	4,815.63	62.22	29.10	139.92	-1,072.83	1,217.42	2,596.38	2,527.40	68.99	37.637		
5,800.00	4,800.74	5,099.38	4,869.54	63.63	29.37	140.75	-1,064.28	1,209.54	2,646.97	2,577.52	69.45	38.114		
5,900.00	4,876.72	5,159.83	4,928.79	65.04	29.66	141.63	-1,055.55	1,201.40	2,698.81	2,628.89	69.91	38.603		
6,000.00	4,952.70	5,227.78	4,995.67	66.45	29.96	142.56	-1,046.69	1,193.27	2,751.69	2,681.30	70.39	39.094		
6,100.00	5,028.68	5,296.90	5,064.10	67.86	30.24	143.43	-1,039.22	1,187.01	2,805.34	2,734.47	70.86	39.587		
6,200.00	5,104.65	5,361.69	5,128.44	69.27	30.48	144.19	-1,033.33	1,182.31	2,859.80	2,788.48	71.31	40.102		
6,300.00	5,180.63	5,435.31	5,201.74	70.69	30.72	144.99	-1,027.78	1,178.20	2,914.93	2,843.13	71.79	40.602		
6,400.00	5,256.61	5,517.51	5,283.73	72.10	30.97	145.82	-1,022.84	1,175.25	2,970.46	2,898.15	72.32	41.077		
6,500.00	5,332.59	5,582.55	5,348.69	73.51	31.15	146.42	-1,019.84	1,174.14	3,026.31	2,953.56	72.75	41.597		
6,600.00	5,408.56	5,632.46	5,398.57	74.92	31.27	146.86	-1,018.34	1,173.62	3,083.08	3,009.97	73.11	42.173		
6,700.00	5,484.54	5,686.40	5,452.51	76.34	31.40	147.30	-1,017.45	1,173.23	3,140.76	3,067.29	73.47	42.747		
6,800.00	5,560.52	5,742.00	5,508.11	77.75	31.53	147.75	-1,017.05	1,172.87	3,199.22	3,125.38	73.85	43.323		
6,900.00	5,636.50	5,834.98	5,601.09	79.16	31.74	148.46	-1,016.77	1,172.60	3,257.98	3,183.54	74.43	43.770		
7,000.00	5,712.47	5,909.55	5,675.65	80.57	31.91	149.01	-1,016.33	1,172.44	3,316.78	3,241.86	74.92	44.272		
7,100.00	5,788.45	5,981.07	5,747.17	81.99	32.08	149.53	-1,015.66	1,171.93	3,375.87	3,300.49	75.38	44.784		
7,200.00	5,864.43	6,053.51	5,819.61	83.40	32.25	150.04	-1,015.02	1,171.31	3,435.29	3,359.44	75.85	45.290		
7,300.00	5,940.40	6,129.20	5,895.29	84.81	32.43	150.56	-1,014.30	1,170.59	3,494.95	3,418.61	76.34	45.780		
7,400.00	6,016.38	6,195.75	5,961.83	86.23	32.59	151.01	-1,013.72	1,169.87	3,554.92	3,478.14	76.78	46.301		
7,500.00	6,092.36	6,269.04	6,035.12	87.64	32.77	151.49	-1,013.18	1,169.01	3,615.21	3,537.95	77.26	46.795		
7,600.00	6,168.34	6,347.39	6,113.45	89.05	32.96	151.98	-1,012.59	1,168.08	3,675.67	3,597.90	77.77	47.265		
7,700.00	6,244.31	6,427.63	6,193.69	90.47	33.16	152.48	-1,011.91	1,167.21	3,736.20	3,657.91	78.29	47.722		
7,800.00	6,320.29	6,504.74	6,270.79	91.88	33.35	152.93	-1,011.33	1,166.52	3,796.85	3,718.05	78.80	48.183		
7,900.00	6,396.27	6,586.00	6,352.05	93.30	33.55	153.39	-1,010.89	1,166.06	3,857.58	3,778.24	79.34	48.621		
8,000.00	6,472.25	6,698.22	6,464.27	94.71	33.82	153.99	-1,010.43	1,166.33	3,918.07	3,838.00	80.07	48.931		
8,100.00	6,548.22	6,751.92	6,517.96	96.12	33.95	154.27	-1,010.19	1,166.52	3,978.60	3,898.15	80.45	49.455		
8,200.00	6,624.20	6,823.37	6,589.42	97.54	34.12	154.64	-1,009.81	1,166.39	4,039.52	3,958.58	80.93	49.911		
8,300.00	6,700.18	6,900.18	6,666.22	98.95	34.32	155.03	-1,009.14	1,166.13	4,100.49	4,019.04	81.46	50.340		
8,400.00	6,776.16	6,963.70	6,729.74	100.37	34.48	155.34	-1,008.71	1,165.85	4,161.74	4,079.84	81.90	50.817		
8,500.00	6,852.13	7,051.33	6,817.37	101.78	34.70	155.76	-1,008.22	1,165.52	4,223.13	4,140.64	82.49	51.193		
8,600.00	6,928.11	7,149.76	6,915.79	103.20	34.95	156.21	-1,007.52	1,165.56	4,284.32	4,201.15	83.16	51.516		
8,700.00	7,004.09	7,229.62	6,995.66	104.61	35.15	156.57	-1,006.85	1,165.84	4,345.35	4,261.63	83.72	51.904		
8,800.00	7,080.06	7,295.11	7,061.14	106.02	35.32	156.85	-1,006.18	1,165.94	4,406.53	4,322.35	84.18	52.344		
8,900.00	7,156.04	7,356.93	7,122.95	107.44	35.48	157.12	-1,005.52	1,165.71	4,468.08	4,383.45	84.63	52.798		
9,000.00	7,232.02	7,437.12	7,203.14	108.85	35.70	157.47	-1,004.29	1,165.02	4,529.78	4,444.60	85.19	53.174		
9,104.68	7,311.55	7,503.33	7,269.33	110.33	35.88	157.75	-1,002.94	1,164.11	4,594.55	4,508.89	85.66	53.635		
9,150.00	7,346.29	7,531.49	7,297.47	110.97	35.96	158.06	-1,002.32	1,163.61	4,621.79	4,535.92	85.86	53.828		
9,200.00	7,385.15	7,574.43	7,340.40	111.65	36.08	141.75	-1,001.43	1,162.86	4,649.63	4,563.47	86.15	53.969		
9,250.00	7,424.29	7,620.42	7,386.38	112.31	36.21	133.68	-1,000.67	1,162.29	4,674.91	4,588.45	86.46	54.068		
9,300.00	7,463.40	7,725.00	7,490.94	112.93	36.48	126.38	-1,000.13	1,163.18	4,697.09	4,609.93	87.16	53.893		
9,350.00	7,502.19	7,757.96	7,523.89	113.51	36.55	119.13	-1,000.29	1,164.02	4,716.30	4,628.94	87.36	53.985		
9,400.00	7,540.36	7,779.08	7,545.00	114.04	36.60	112.44	-1,000.39	1,164.43	4,732.80	4,645.32	87.48	54.103		
9,450.00	7,577.62	7,799.55	7,565.47	114.53	36.65	106.46	-1,000.48	1,164.72	4,746.46	4,658.89	87.57	54.202		
9,500.00	7,613.70	7,819.00	7,584.92	114.95	36.69	101.23	-1,000.57	1,164.92	4,757.24	4,669.60	87.63	54.286		
9,550.00	7,648.30	7,839.18	7,605.10	115.32	36.74	96.77	-1,000.67	1,165.04	4,765.07	4,677.39	87.68	54.345		
9,600.00	7,681.18	7,858.07	7,623.99	115.63	36.79	93.03	-1,000.78	1,165.10	4,769.93	4,682.24	87.70	54.390		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,650.00	7,712.08	7,875.81	7,641.73	115.88	36.83	89.96	-1,000.91	1,165.11	4,771.82	4,684.14	87.68	54.421		
9,700.00	7,740.76	7,892.27	7,658.19	116.08	36.87	87.53	-1,001.05	1,165.07	4,770.75	4,683.11	87.64	54.437		
9,750.00	7,767.01	7,914.00	7,679.92	116.23	36.92	85.76	-1,001.26	1,164.96	4,766.75	4,679.14	87.61	54.410		
9,800.00	7,790.63	7,914.00	7,679.92	116.33	36.92	84.32	-1,001.26	1,164.96	4,759.86	4,672.46	87.40	54.458		
9,850.00	7,811.44	7,934.77	7,700.69	116.38	36.97	83.63	-1,001.49	1,164.81	4,750.13	4,662.80	87.33	54.392		
9,900.00	7,829.28	7,946.18	7,712.09	116.38	37.00	83.34	-1,001.64	1,164.70	4,737.66	4,650.48	87.18	54.344		
9,950.00	7,844.01	7,955.71	7,721.62	116.35	37.02	83.53	-1,001.77	1,164.61	4,722.54	4,635.54	87.00	54.280		
10,000.00	7,855.52	7,963.30	7,729.21	116.28	37.04	84.19	-1,001.88	1,164.53	4,704.88	4,618.07	86.81	54.199		
10,050.00	7,863.72	7,968.87	7,734.78	116.18	37.05	85.31	-1,001.96	1,164.46	4,684.79	4,598.19	86.60	54.099		
10,100.00	7,868.56	7,972.38	7,738.29	116.06	37.06	86.89	-1,002.02	1,164.42	4,662.41	4,576.04	86.38	53.978		
10,145.94	7,870.00	7,973.74	7,739.65	115.92	37.07	88.78	-1,002.04	1,164.41	4,639.96	4,553.79	86.17	53.847		
10,200.00	7,870.00	7,974.29	7,740.20	115.76	37.07	88.78	-1,002.05	1,164.40	4,612.76	4,526.84	85.93	53.683		
10,300.00	7,870.00	7,975.32	7,741.23	115.46	37.07	88.80	-1,002.07	1,164.39	4,563.71	4,478.21	85.49	53.382		
10,400.00	7,870.00	7,976.36	7,742.27	115.18	37.07	88.81	-1,002.08	1,164.38	4,516.33	4,431.25	85.08	53.081		
10,500.00	7,870.00	7,977.41	7,743.32	114.91	37.07	88.83	-1,002.10	1,164.36	4,470.70	4,385.99	84.70	52.780		
10,600.00	7,870.00	7,978.48	7,744.39	114.65	37.08	88.84	-1,002.12	1,164.35	4,426.85	4,342.49	84.36	52.478		
10,700.00	7,870.00	7,979.56	7,745.47	114.41	37.08	88.86	-1,002.14	1,164.34	4,384.84	4,300.79	84.05	52.172		
10,800.00	7,870.00	7,980.65	7,746.56	114.17	37.08	88.88	-1,002.15	1,164.32	4,344.73	4,260.95	83.78	51.862		
10,900.00	7,870.00	7,981.76	7,747.66	113.95	37.08	88.89	-1,002.17	1,164.31	4,306.56	4,223.01	83.55	51.546		
11,000.00	7,870.00	7,982.88	7,748.78	113.75	37.09	88.91	-1,002.19	1,164.29	4,270.40	4,187.03	83.37	51.223		
11,100.00	7,870.00	7,984.01	7,749.92	113.55	37.09	88.92	-1,002.21	1,164.28	4,236.29	4,153.05	83.24	50.892		
11,200.00	7,870.00	7,985.16	7,751.07	113.37	37.09	88.94	-1,002.23	1,164.26	4,204.28	4,121.11	83.17	50.553		
11,300.00	7,870.00	7,986.33	7,752.23	113.20	37.10	88.96	-1,002.25	1,164.25	4,174.42	4,091.27	83.15	50.206		
11,400.00	7,870.00	7,987.51	7,753.41	113.04	37.10	88.97	-1,002.27	1,164.23	4,146.75	4,063.57	83.18	49.850		
11,500.00	7,870.00	7,988.70	7,754.61	112.89	37.10	88.99	-1,002.29	1,164.22	4,121.33	4,038.05	83.28	49.486		
11,600.00	7,870.00	7,989.92	7,755.82	112.76	37.10	89.01	-1,002.31	1,164.20	4,098.19	4,014.75	83.44	49.115		
11,700.00	7,870.00	7,991.14	7,757.05	112.64	37.11	89.03	-1,002.33	1,164.19	4,077.37	3,993.72	83.66	48.738		
11,800.00	7,870.00	7,992.39	7,758.29	112.53	37.11	89.04	-1,002.36	1,164.17	4,058.91	3,974.98	83.94	48.357		
11,900.00	7,870.00	7,993.65	7,759.56	112.44	37.11	89.06	-1,002.38	1,164.15	4,042.84	3,958.57	84.27	47.973		
12,000.00	7,870.00	7,994.93	7,760.84	112.36	37.12	89.08	-1,002.40	1,164.13	4,029.19	3,944.52	84.67	47.588		
12,100.00	7,870.00	7,996.23	7,762.13	112.29	37.12	89.10	-1,002.42	1,164.12	4,017.98	3,932.86	85.12	47.206		
12,200.00	7,870.00	7,997.54	7,763.45	112.24	37.12	89.12	-1,002.45	1,164.10	4,009.23	3,923.61	85.62	46.828		
12,300.00	7,870.00	7,998.88	7,764.78	112.20	37.13	89.14	-1,002.47	1,164.08	4,002.96	3,916.80	86.16	46.458		
12,400.00	7,870.00	8,000.23	7,766.13	112.17	37.13	89.16	-1,002.50	1,164.06	3,999.18	3,912.43	86.76	46.097		
12,500.00	7,870.00	8,001.60	7,767.50	112.16	37.13	89.18	-1,002.52	1,164.04	3,997.90	3,910.51	87.39	45.748		
12,501.20	7,870.00	8,001.62	7,767.52	112.16	37.13	89.18	-1,002.52	1,164.04	3,997.90	3,910.50	87.40	45.744		
12,600.00	7,870.00	8,008.00	7,773.90	112.17	37.15	89.27	-1,002.65	1,163.95	3,999.13	3,911.02	88.11	45.389		
12,700.00	7,870.00	8,008.00	7,773.90	112.19	37.15	89.27	-1,002.65	1,163.95	4,002.84	3,914.05	88.80	45.079		
12,800.00	7,870.00	8,008.00	7,773.90	112.23	37.15	89.27	-1,002.65	1,163.95	4,009.05	3,919.54	89.51	44.789		
12,900.00	7,870.00	8,008.00	7,773.90	112.28	37.15	89.27	-1,002.65	1,163.95	4,017.74	3,927.49	90.25	44.518		
13,000.00	7,870.00	8,009.61	7,775.51	112.36	37.15	89.29	-1,002.68	1,163.92	4,028.89	3,937.87	91.02	44.263		
13,100.00	7,870.00	8,012.71	7,778.61	112.45	37.16	89.34	-1,002.74	1,163.88	4,042.48	3,950.66	91.82	44.025		
13,200.00	7,870.00	8,015.79	7,781.69	112.56	37.17	89.38	-1,002.79	1,163.83	4,058.49	3,965.86	92.63	43.812		
13,300.00	7,870.00	8,018.84	7,784.74	112.68	37.17	89.42	-1,002.85	1,163.79	4,076.90	3,983.44	93.45	43.626		
13,400.00	7,870.00	8,021.86	7,787.76	112.83	37.18	89.47	-1,002.91	1,163.75	4,097.65	4,003.38	94.27	43.467		
13,500.00	7,870.00	8,024.86	7,790.76	113.00	37.19	89.51	-1,002.97	1,163.71	4,120.73	4,025.64	95.09	43.335		
13,600.00	7,870.00	8,027.83	7,793.72	113.19	37.20	89.55	-1,003.02	1,163.67	4,146.10	4,050.19	95.90	43.231		
13,700.00	7,870.00	8,030.76	7,796.66	113.40	37.20	89.59	-1,003.08	1,163.63	4,173.70	4,076.98	96.71	43.155		
13,800.00	7,870.00	8,033.68	7,799.57	113.63	37.21	89.64	-1,003.13	1,163.59	4,203.50	4,105.98	97.51	43.107		
13,900.00	7,870.00	8,036.56	7,802.46	113.89	37.22	89.68	-1,003.18	1,163.56	4,235.45	4,137.15	98.30	43.085		
14,000.00	7,870.00	8,039.42	7,805.32	114.18	37.22	89.72	-1,003.24	1,163.52	4,269.50	4,170.42	99.08	43.091		
14,100.00	7,870.00	8,042.26	7,808.15	114.48	37.23	89.76	-1,003.29	1,163.49	4,305.61	4,205.76	99.84	43.123		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,200.00	7,870.00	8,045.07	7,810.96	114.82	37.24	89.80	-1,003.34	1,163.46	4,343.72	4,243.12	100.59	43.182		
14,300.00	7,870.00	8,047.85	7,813.74	115.18	37.24	89.84	-1,003.39	1,163.43	4,383.77	4,282.45	101.32	43.266		
14,400.00	7,870.00	8,050.61	7,816.50	115.57	37.25	89.88	-1,003.44	1,163.40	4,425.73	4,323.69	102.04	43.374		
14,500.00	7,870.00	8,053.35	7,819.24	115.99	37.26	89.92	-1,003.49	1,163.37	4,469.52	4,366.79	102.73	43.507		
14,600.00	7,870.00	8,056.06	7,821.95	116.44	37.26	89.96	-1,003.54	1,163.34	4,515.11	4,411.70	103.41	43.664		
14,700.00	7,870.00	8,058.75	7,824.63	116.92	37.27	89.99	-1,003.59	1,163.31	4,562.43	4,458.36	104.06	43.843		
14,800.00	7,870.00	8,061.41	7,827.30	117.44	37.28	90.03	-1,003.63	1,163.29	4,611.43	4,506.73	104.70	44.044		
14,900.00	7,870.00	8,064.05	7,829.94	117.98	37.28	90.07	-1,003.68	1,163.26	4,662.06	4,556.74	105.32	44.266		
15,000.00	7,870.00	8,066.67	7,832.56	118.56	37.29	90.11	-1,003.73	1,163.24	4,714.27	4,608.35	105.92	44.509		
15,100.00	7,870.00	8,069.26	7,835.15	119.17	37.30	90.15	-1,003.77	1,163.21	4,768.00	4,661.51	106.50	44.772		
15,200.00	7,870.00	8,071.84	7,837.72	119.81	37.30	90.18	-1,003.82	1,163.19	4,823.21	4,716.15	107.06	45.053		
15,300.00	7,870.00	8,074.39	7,840.28	120.48	37.31	90.22	-1,003.86	1,163.17	4,879.84	4,772.24	107.60	45.354		
15,400.00	7,870.00	8,076.92	7,842.81	121.19	37.31	90.26	-1,003.91	1,163.15	4,937.85	4,829.73	108.12	45.671		
15,500.00	7,870.00	8,079.43	7,845.31	121.93	37.32	90.29	-1,003.95	1,163.13	4,997.18	4,888.56	108.62	46.006		
15,600.00	7,870.00	8,081.92	7,847.80	122.71	37.33	90.33	-1,003.99	1,163.11	5,057.79	4,948.69	109.11	46.357		
15,700.00	7,870.00	8,084.38	7,850.27	123.52	37.33	90.36	-1,004.03	1,163.09	5,119.64	5,010.07	109.57	46.723		
15,800.00	7,870.00	8,086.83	7,852.71	124.36	37.34	90.40	-1,004.08	1,163.07	5,182.68	5,072.66	110.02	47.105		
15,900.00	7,870.00	8,089.25	7,855.14	125.23	37.34	90.43	-1,004.12	1,163.05	5,246.87	5,136.41	110.46	47.501		
16,000.00	7,870.00	8,091.66	7,857.54	126.14	37.35	90.47	-1,004.16	1,163.04	5,312.16	5,201.29	110.88	47.911		
16,100.00	7,870.00	8,094.05	7,859.93	127.07	37.36	90.50	-1,004.20	1,163.02	5,378.52	5,267.24	111.28	48.334		
16,200.00	7,870.00	8,096.41	7,862.29	128.04	37.36	90.53	-1,004.24	1,163.01	5,445.91	5,334.24	111.67	48.770		
16,300.00	7,870.00	8,098.76	7,864.64	129.04	37.37	90.57	-1,004.28	1,162.99	5,514.28	5,402.25	112.04	49.218		
16,400.00	7,870.00	8,101.09	7,866.97	130.06	37.37	90.60	-1,004.32	1,162.98	5,583.61	5,471.22	112.40	49.678		
16,500.00	7,870.00	8,103.54	7,869.42	131.11	37.38	90.64	-1,004.36	1,162.96	5,653.86	5,541.12	112.74	50.149		
16,600.00	7,870.00	8,106.62	7,872.50	132.19	37.39	90.68	-1,004.41	1,162.95	5,724.99	5,611.91	113.08	50.629		
16,700.00	7,870.00	8,109.66	7,875.54	133.29	37.39	90.72	-1,004.46	1,162.93	5,796.97	5,683.57	113.40	51.120		
16,800.00	7,870.00	8,112.64	7,878.52	134.42	37.40	90.77	-1,004.50	1,162.92	5,869.78	5,756.06	113.71	51.620		
16,900.00	7,870.00	8,115.58	7,881.46	135.57	37.41	90.81	-1,004.55	1,162.91	5,943.37	5,829.36	114.01	52.131		
17,000.00	7,870.00	8,118.46	7,884.34	136.75	37.41	90.85	-1,004.60	1,162.90	6,017.72	5,903.43	114.30	52.650		
17,100.00	7,870.00	8,121.30	7,887.18	137.94	37.42	90.89	-1,004.64	1,162.89	6,092.81	5,978.24	114.57	53.179		
17,200.00	7,870.00	8,124.10	7,889.98	139.16	37.43	90.93	-1,004.69	1,162.88	6,168.60	6,053.76	114.84	53.716		
17,300.00	7,870.00	8,126.85	7,892.73	140.39	37.43	90.97	-1,004.73	1,162.88	6,245.07	6,129.98	115.09	54.261		
17,400.00	7,870.00	8,129.55	7,895.43	141.65	37.44	91.01	-1,004.77	1,162.88	6,322.20	6,206.86	115.34	54.814		
17,500.00	7,870.00	8,132.22	7,898.09	142.92	37.45	91.05	-1,004.81	1,162.87	6,399.97	6,284.39	115.58	55.374		
17,600.00	7,870.00	8,134.84	7,900.72	144.21	37.45	91.08	-1,004.85	1,162.87	6,478.34	6,362.53	115.81	55.942		
17,700.00	7,870.00	8,137.42	7,903.30	145.52	37.46	91.12	-1,004.89	1,162.87	6,557.30	6,441.27	116.03	56.516		
17,800.00	7,870.00	8,139.96	7,905.84	146.84	37.46	91.16	-1,004.93	1,162.87	6,636.83	6,520.59	116.24	57.097		
17,900.00	7,870.00	8,142.46	7,908.34	148.18	37.47	91.19	-1,004.96	1,162.88	6,716.90	6,600.46	116.44	57.684		
18,000.00	7,870.00	8,144.93	7,910.81	149.54	37.48	91.23	-1,005.00	1,162.88	6,797.50	6,680.86	116.64	58.278		
18,100.00	7,870.00	8,147.36	7,913.23	150.90	37.48	91.26	-1,005.04	1,162.88	6,878.61	6,761.78	116.83	58.877		
18,200.00	7,870.00	8,149.75	7,915.62	152.28	37.49	91.30	-1,005.07	1,162.89	6,960.21	6,843.20	117.01	59.482		
18,300.00	7,870.00	8,152.10	7,917.98	153.67	37.49	91.33	-1,005.11	1,162.89	7,042.28	6,925.09	117.19	60.093		
18,400.00	7,870.00	8,154.43	7,920.30	155.07	37.50	91.37	-1,005.14	1,162.90	7,124.81	7,007.45	117.36	60.708		
18,500.00	7,870.00	8,156.71	7,922.59	156.49	37.50	91.40	-1,005.17	1,162.90	7,207.79	7,090.26	117.53	61.329		
18,600.00	7,870.00	8,158.97	7,924.84	157.91	37.51	91.43	-1,005.20	1,162.91	7,291.19	7,173.50	117.69	61.954		
18,700.00	7,870.00	8,161.19	7,927.06	159.35	37.51	91.46	-1,005.23	1,162.92	7,375.00	7,257.16	117.84	62.585		
18,800.00	7,870.00	8,163.38	7,929.25	160.79	37.52	91.49	-1,005.26	1,162.93	7,459.21	7,341.22	117.99	63.219		
18,900.00	7,870.00	8,165.54	7,931.41	162.25	37.52	91.52	-1,005.29	1,162.94	7,543.81	7,425.68	118.13	63.858		
19,000.00	7,870.00	8,167.67	7,933.54	163.71	37.53	91.55	-1,005.32	1,162.95	7,628.78	7,510.51	118.27	64.501		
19,100.00	7,870.00	8,169.77	7,935.64	165.18	37.53	91.58	-1,005.35	1,162.96	7,714.11	7,595.70	118.41	65.147		
19,200.00	7,870.00	8,171.84	7,937.71	166.66	37.54	91.61	-1,005.38	1,162.97	7,799.79	7,681.25	118.54	65.798		
19,300.00	7,870.00	8,173.88	7,939.75	168.15	37.54	91.64	-1,005.41	1,162.98	7,885.80	7,767.13	118.67	66.452		

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

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 0-4-23 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 122-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,870.00	8,175.89	7,941.76	169.65	37.55	91.67	-1,005.43	1,162.99	7,972.14	7,853.35	118.79	67.110	
19,500.00	7,870.00	8,177.88	7,943.75	171.15	37.55	91.70	-1,005.46	1,163.01	8,058.80	7,939.88	118.91	67.771	
19,600.00	7,870.00	8,179.84	7,945.71	172.66	37.56	91.73	-1,005.49	1,163.02	8,145.76	8,026.73	119.03	68.435	
19,700.00	7,870.00	8,181.77	7,947.64	174.18	37.56	91.76	-1,005.51	1,163.03	8,233.02	8,113.87	119.14	69.103	
19,800.00	7,870.00	8,183.68	7,949.55	175.70	37.57	91.78	-1,005.54	1,163.05	8,320.56	8,201.31	119.25	69.773	
19,889.26	7,870.00	8,185.36	7,951.23	177.06	37.57	91.81	-1,005.56	1,163.06	8,398.93	8,279.58	119.35	70.374	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	134.96	-2,072.71	2,075.55	2,933.61					
100.00	100.00	63.82	63.82	0.13	0.10	134.96	-2,072.60	2,075.53	2,933.19	2,932.95	0.24	N/A		
200.00	200.00	167.48	167.48	0.49	0.36	134.95	-2,072.02	2,075.44	2,932.72	2,931.86	0.86	3,422.947		
300.00	300.00	266.54	266.54	0.85	0.72	134.95	-2,071.62	2,075.34	2,932.37	2,930.80	1.57	1,867.547		
400.00	399.98	373.68	373.68	1.21	1.10	66.86	-2,071.11	2,075.08	2,931.18	2,928.87	2.31	1,270.523		
500.00	499.84	500.00	556.17	1.56	1.55	67.14	-2,069.68	2,070.97	2,926.89	2,923.78	3.11	939.623		
600.00	599.45	726.85	726.26	1.93	2.37	67.73	-2,069.38	2,058.18	2,917.61	2,913.31	4.30	679.190		
700.00	698.70	812.88	811.82	2.32	2.70	68.27	-2,071.20	2,049.38	2,907.33	2,902.34	4.99	582.389		
800.00	797.47	888.35	886.75	2.72	2.99	68.85	-2,074.07	2,040.85	2,896.39	2,890.71	5.68	510.279		
900.00	895.62	950.00	947.84	3.16	3.23	69.42	-2,077.66	2,033.43	2,885.38	2,879.04	6.34	455.157		
1,000.00	993.06	1,014.32	1,011.43	3.63	3.49	70.08	-2,082.81	2,025.22	2,874.53	2,867.47	7.05	407.465		
1,100.00	1,089.64	1,066.95	1,063.31	4.14	3.70	70.70	-2,088.15	2,018.16	2,864.05	2,856.29	7.77	368.800		
1,200.00	1,185.27	1,111.54	1,107.18	4.70	3.89	71.29	-2,093.49	2,012.31	2,854.41	2,845.92	8.49	336.135		
1,300.00	1,279.82	1,139.00	1,134.18	5.31	4.00	71.71	-2,097.16	2,008.81	2,845.85	2,836.66	9.19	309.574		
1,400.00	1,373.17	1,196.49	1,190.59	5.97	4.24	72.45	-2,105.70	2,001.82	2,838.24	2,828.16	10.08	281.532		
1,500.00	1,465.21	1,233.00	1,226.36	6.69	4.40	72.97	-2,111.73	1,997.65	2,831.95	2,821.01	10.93	259.011		
1,600.00	1,555.84	1,274.62	1,267.05	7.47	4.58	73.55	-2,119.25	1,993.17	2,827.05	2,815.18	11.87	238.146		
1,700.00	1,644.94	1,320.95	1,312.25	8.31	4.78	74.19	-2,128.23	1,988.41	2,823.47	2,810.57	12.90	218.946		
1,800.00	1,732.39	1,361.90	1,352.12	9.23	4.97	74.76	-2,136.64	1,984.35	2,821.24	2,807.28	13.96	202.051		
1,887.46	1,807.46	1,394.41	1,383.69	10.08	5.12	75.21	-2,143.76	1,981.21	2,820.60	2,805.66	14.94	188.831 CC		
1,900.00	1,818.11	1,398.98	1,388.11	10.21	5.14	75.28	-2,144.80	1,980.77	2,820.61	2,805.54	15.08	187.088		
2,000.00	1,901.97	1,433.00	1,421.04	11.26	5.29	75.74	-2,152.73	1,977.57	2,821.71	2,805.46	16.24	173.742 ES		
2,100.00	1,983.88	1,465.37	1,452.28	12.38	5.45	76.16	-2,160.70	1,974.66	2,824.65	2,807.19	17.46	161.743		
2,200.00	2,063.74	1,495.14	1,480.94	13.57	5.59	76.51	-2,168.37	1,972.16	2,829.57	2,810.83	18.74	151.018		
2,300.00	2,141.45	1,527.00	1,511.51	14.84	5.74	76.87	-2,176.96	1,969.68	2,836.53	2,816.45	20.08	141.233		
2,327.78	2,162.65	1,527.00	1,511.51	15.21	5.74	76.83	-2,176.96	1,969.68	2,838.84	2,818.42	20.42	139.049		
2,400.00	2,217.51	1,552.07	1,535.52	16.17	5.87	77.23	-2,183.97	1,967.89	2,845.77	2,824.34	21.43	132.775		
2,500.00	2,293.49	1,580.65	1,562.83	17.51	6.01	77.68	-2,192.20	1,966.05	2,857.84	2,835.04	22.80	125.333		
2,600.00	2,369.47	1,622.00	1,602.22	18.86	6.22	78.33	-2,204.56	1,963.80	2,872.79	2,848.55	24.24	118.510		
2,700.00	2,445.45	1,653.54	1,632.23	20.22	6.38	78.82	-2,214.17	1,962.34	2,890.29	2,864.69	25.60	112.893		
2,800.00	2,521.42	1,711.04	1,686.98	21.59	6.67	79.72	-2,231.61	1,960.13	2,910.02	2,882.91	27.12	107.321		
2,900.00	2,597.40	2,900.00	1,770.39	22.97	13.03	81.05	-2,257.37	1,957.08	2,931.16	2,897.50	33.65	87.105		
3,000.00	2,673.38	1,869.19	1,838.11	24.34	7.50	82.12	-2,277.84	1,954.75	2,953.91	2,923.53	30.38	97.235		
3,100.00	2,749.36	1,937.53	1,903.51	25.73	7.86	83.14	-2,297.64	1,953.19	2,978.73	2,946.81	31.92	93.333		
3,200.00	2,825.33	2,027.94	1,990.31	27.11	8.34	84.47	-2,322.86	1,951.76	3,004.65	2,971.07	33.58	89.485		
3,300.00	2,901.31	2,087.96	2,047.99	28.50	8.66	85.33	-2,339.45	1,951.05	3,032.19	2,997.17	35.02	86.588		
3,400.00	2,977.29	2,146.55	2,104.24	29.90	8.98	86.17	-2,355.81	1,950.13	3,061.47	3,025.04	36.43	84.030		
3,500.00	3,053.27	2,199.16	2,154.66	31.29	9.27	86.93	-2,370.77	1,948.64	3,092.51	3,054.73	37.78	81.851		
3,600.00	3,129.24	2,240.53	2,194.23	32.69	9.50	87.53	-2,382.76	1,947.54	3,125.52	3,086.49	39.03	80.084		
3,700.00	3,205.22	2,282.73	2,234.54	34.08	9.74	88.13	-2,395.25	1,946.74	3,160.51	3,120.25	40.25	78.517		
3,800.00	3,281.20	2,398.55	2,345.55	35.48	10.38	89.71	-2,428.26	1,946.88	3,196.20	3,154.22	41.99	76.124		
3,900.00	3,357.18	2,440.30	2,385.58	36.88	10.61	90.27	-2,440.12	1,947.09	3,233.39	3,190.23	43.16	74.912		
4,000.00	3,433.15	2,492.07	2,435.09	38.29	10.90	90.97	-2,455.25	1,946.97	3,272.35	3,227.96	44.39	73.723		
4,100.00	3,509.13	2,572.86	2,512.39	39.69	11.37	92.04	-2,478.73	1,946.55	3,312.48	3,266.67	45.81	72.308		
4,200.00	3,585.11	2,644.86	2,581.36	41.09	11.77	92.97	-2,499.38	1,947.24	3,353.64	3,306.49	47.15	71.130		
4,300.00	3,661.08	2,777.13	2,708.42	42.50	12.51	94.66	-2,536.06	1,947.58	3,395.31	3,346.38	48.93	69.397		
4,400.00	3,737.06	2,869.18	2,797.11	43.90	13.04	95.87	-2,560.22	1,942.79	3,436.95	3,386.57	50.37	68.231		
4,500.00	3,813.04	2,916.23	2,842.43	45.31	13.31	96.48	-2,572.60	1,940.30	3,479.91	3,428.44	51.47	67.616		
4,600.00	3,889.02	2,974.68	2,898.71	46.71	13.64	97.22	-2,588.23	1,938.17	3,524.27	3,471.65	52.62	66.972		
4,700.00	3,964.99	3,045.46	2,966.90	48.12	14.04	98.09	-2,607.15	1,936.81	3,569.67	3,515.81	53.86	66.278		
4,800.00	4,040.97	3,108.97	3,028.10	49.53	14.40	98.87	-2,624.07	1,935.18	3,616.04	3,561.02	55.02	65.723		
4,900.00	4,116.95	3,157.09	3,074.42	50.94	14.68	99.46	-2,636.92	1,933.23	3,663.52	3,607.48	56.04	65.376		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,192.93	3,197.61	3,113.36	52.35	14.91	99.95	-2,647.96	1,931.29	3,712.37	3,655.39	56.97	65.159		
5,100.00	4,268.90	3,253.28	3,166.77	53.76	15.24	100.63	-2,663.40	1,928.31	3,762.52	3,704.51	58.01	64.861		
5,200.00	4,344.88	3,335.15	3,245.38	55.16	15.72	101.60	-2,685.83	1,923.99	3,813.38	3,754.14	59.24	64.372		
5,300.00	4,420.86	3,402.39	3,310.01	56.57	16.11	102.39	-2,704.17	1,921.02	3,864.96	3,804.62	60.34	64.055		
5,400.00	4,496.84	3,448.77	3,354.57	57.98	16.38	102.92	-2,716.93	1,919.30	3,917.47	3,856.22	61.25	63.955		
5,500.00	4,572.81	3,491.39	3,395.45	59.39	16.63	103.39	-2,728.89	1,917.79	3,971.11	3,908.99	62.12	63.927		
5,600.00	4,648.79	3,562.73	3,463.81	60.81	17.06	104.18	-2,749.17	1,915.61	4,025.69	3,962.48	63.22	63.680		
5,700.00	4,724.77	3,640.93	3,538.81	62.22	17.52	105.01	-2,771.23	1,914.09	4,080.70	4,016.33	64.37	63.397		
5,800.00	4,800.74	3,706.30	3,601.53	63.63	17.90	105.69	-2,789.67	1,913.39	4,136.27	4,070.86	65.40	63.245		
5,900.00	4,876.72	3,753.13	3,646.41	65.04	18.18	106.17	-2,802.99	1,912.80	4,192.63	4,126.38	66.26	63.277		
6,000.00	4,952.70	3,790.00	3,681.73	66.45	18.40	106.54	-2,813.58	1,912.14	4,249.91	4,182.90	67.01	63.419		
6,100.00	5,028.68	3,831.21	3,721.13	67.86	18.65	106.96	-2,825.56	1,910.99	4,308.16	4,240.37	67.79	63.551		
6,200.00	5,104.65	5,019.89	4,887.30	69.27	24.14	117.82	-3,028.11	1,882.03	4,364.22	4,287.96	76.26	57.227		
6,300.00	5,180.63	5,115.80	4,983.15	70.69	24.43	118.62	-3,031.46	1,880.75	4,405.89	4,328.53	77.36	56.955		
6,400.00	5,256.61	5,204.71	5,072.01	72.10	24.70	119.34	-3,034.22	1,879.74	4,447.87	4,369.45	78.41	56.724		
6,500.00	5,332.59	5,261.47	5,128.73	73.51	24.87	119.80	-3,036.01	1,879.12	4,490.46	4,411.14	79.32	56.612		
6,600.00	5,408.56	5,425.59	5,292.79	74.92	25.36	121.08	-3,040.39	1,878.22	4,533.32	4,452.65	80.66	56.200		
6,700.00	5,484.54	5,494.18	5,361.37	76.34	25.55	121.61	-3,041.62	1,878.37	4,575.78	4,494.18	81.60	56.075		
6,800.00	5,560.52	5,575.86	5,443.04	77.75	25.79	122.22	-3,043.10	1,878.60	4,618.78	4,536.20	82.58	55.930		
6,900.00	5,636.50	5,655.89	5,523.05	79.16	26.02	122.82	-3,044.44	1,878.77	4,662.22	4,578.68	83.54	55.807		
7,000.00	5,712.47	5,742.51	5,609.66	80.57	26.27	123.45	-3,045.73	1,878.87	4,706.06	4,621.54	84.52	55.682		
7,100.00	5,788.45	5,842.95	5,710.09	81.99	26.55	124.18	-3,046.85	1,879.04	4,750.12	4,664.58	85.54	55.534		
7,200.00	5,864.43	5,946.62	5,813.77	83.40	26.84	124.92	-3,047.43	1,879.40	4,794.21	4,707.66	86.55	55.392		
7,300.00	5,940.40	6,049.02	5,916.16	84.81	27.10	125.64	-3,047.25	1,879.38	4,838.35	4,750.82	87.53	55.276		
7,400.00	6,016.38	6,113.43	5,980.57	86.23	27.27	126.09	-3,046.90	1,879.11	4,882.82	4,794.47	88.35	55.266		
7,500.00	6,092.36	6,174.15	6,041.29	87.64	27.42	126.51	-3,046.70	1,878.65	4,927.98	4,838.83	89.14	55.281		
7,600.00	6,168.34	6,235.21	6,102.35	89.05	27.59	126.93	-3,046.66	1,878.14	4,973.81	4,883.88	89.93	55.307		
7,700.00	6,244.31	6,328.11	6,195.25	90.47	27.84	127.56	-3,046.76	1,877.63	5,020.11	4,929.28	90.83	55.267		
7,800.00	6,320.29	6,449.14	6,316.28	91.88	28.14	128.35	-3,046.26	1,877.68	5,066.28	4,974.45	91.83	55.169		
7,900.00	6,396.27	6,515.76	6,382.90	93.30	28.31	128.79	-3,045.63	1,877.44	5,112.62	5,020.02	92.61	55.209		
8,000.00	6,472.25	6,574.40	6,441.52	94.71	28.46	129.17	-3,045.01	1,876.77	5,159.55	5,066.21	93.33	55.280		
8,100.00	6,548.22	6,629.00	6,496.11	96.12	28.61	129.53	-3,044.40	1,875.57	5,207.17	5,113.14	94.03	55.378		
8,200.00	6,624.20	6,683.55	6,550.63	97.54	28.76	129.89	-3,043.82	1,873.94	5,255.49	5,160.78	94.71	55.489		
8,300.00	6,700.18	6,737.70	6,604.74	98.95	28.90	130.25	-3,043.35	1,872.08	5,304.49	5,209.11	95.38	55.615		
8,400.00	6,776.16	6,792.21	6,659.21	100.37	29.06	130.60	-3,043.03	1,870.07	5,354.16	5,258.13	96.04	55.751		
8,500.00	6,852.13	6,855.69	6,722.66	101.78	29.24	131.01	-3,042.90	1,867.74	5,404.46	5,307.73	96.72	55.875		
8,600.00	6,928.11	6,924.86	6,791.79	103.20	29.44	131.44	-3,043.10	1,865.74	5,455.17	5,357.73	97.44	55.987		
8,700.00	7,004.09	6,982.51	6,849.42	104.61	29.61	131.80	-3,043.41	1,864.08	5,506.40	5,408.31	98.09	56.135		
8,800.00	7,080.06	7,096.76	6,963.60	106.02	29.94	132.50	-3,043.50	1,860.02	5,557.97	5,458.99	98.98	56.152		
8,900.00	7,156.04	7,231.21	7,097.91	107.44	30.31	133.33	-3,041.23	1,854.33	5,608.83	5,508.92	99.91	56.138		
9,000.00	7,232.02	7,312.08	7,178.74	108.85	30.54	133.80	-3,040.20	1,852.06	5,659.89	5,559.25	100.63	56.242		
9,104.68	7,311.55	7,413.21	7,279.86	110.33	30.81	134.36	-3,039.63	1,851.56	5,713.19	5,611.71	101.48	56.296		
9,150.00	7,346.29	7,435.36	7,302.01	110.97	30.88	128.13	-3,039.57	1,851.50	5,735.04	5,633.28	101.76	56.357		
9,200.00	7,385.15	7,460.00	7,326.65	111.65	30.95	121.16	-3,039.51	1,851.35	5,755.99	5,653.90	102.08	56.385		
9,250.00	7,424.29	7,486.38	7,353.03	112.31	31.02	114.25	-3,039.48	1,851.11	5,773.50	5,671.08	102.42	56.370		
9,300.00	7,463.40	7,518.43	7,385.07	112.93	31.11	107.58	-3,039.46	1,850.76	5,787.44	5,684.65	102.79	56.301		
9,350.00	7,502.19	9,350.00	7,488.84	113.51	36.29	101.74	-3,039.21	1,850.16	5,797.57	5,688.54	109.03	53.175		
9,400.00	7,540.36	7,699.72	7,566.36	114.04	31.63	96.30	-3,038.61	1,850.61	5,803.45	5,699.37	104.08	55.758		
9,450.00	7,577.62	7,717.18	7,583.81	114.53	31.68	91.11	-3,038.53	1,850.82	5,805.56	5,701.18	104.38	55.617		
9,500.00	7,613.70	7,734.11	7,600.74	114.95	31.73	86.61	-3,038.51	1,851.02	5,804.04	5,699.37	104.67	55.451		
9,550.00	7,648.30	7,761.00	7,627.63	115.32	31.80	82.89	-3,038.60	1,851.31	5,798.92	5,693.93	104.99	55.235		
9,600.00	7,681.18	7,761.00	7,627.63	115.63	31.80	79.67	-3,038.60	1,851.31	5,790.19	5,685.04	105.15	55.065		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,650.00	7,712.08	7,781.89	7,648.52	115.88	31.87	77.27	-3,038.78	1,851.53	5,777.96	5,672.56	105.40	54.819		
9,700.00	7,740.76	7,796.51	7,663.14	116.08	31.91	75.48	-3,038.96	1,851.68	5,762.30	5,656.71	105.59	54.571		
9,750.00	7,767.01	7,810.03	7,676.65	116.23	31.95	74.31	-3,039.16	1,851.82	5,743.33	5,637.57	105.75	54.308		
9,800.00	7,790.63	7,822.34	7,688.96	116.33	31.99	73.73	-3,039.38	1,851.95	5,721.16	5,615.28	105.88	54.032		
9,850.00	7,811.44	7,833.35	7,699.97	116.38	32.03	73.77	-3,039.61	1,852.06	5,695.96	5,589.97	105.98	53.743		
9,900.00	7,829.28	7,855.00	7,721.61	116.38	32.09	74.55	-3,040.12	1,852.28	5,667.90	5,561.78	106.12	53.410		
9,950.00	7,844.01	7,855.00	7,721.61	116.35	32.09	75.76	-3,040.12	1,852.28	5,637.12	5,531.00	106.12	53.122		
10,000.00	7,855.52	7,859.39	7,726.00	116.28	32.11	77.75	-3,040.24	1,852.33	5,603.87	5,497.75	106.12	52.807		
10,050.00	7,863.72	7,867.46	7,734.07	116.18	32.13	80.58	-3,040.45	1,852.41	5,568.37	5,462.24	106.13	52.467		
10,100.00	7,868.56	7,872.70	7,739.30	116.06	32.15	84.29	-3,040.59	1,852.46	5,530.85	5,424.73	106.11	52.122		
10,145.94	7,870.00	7,874.96	7,741.56	115.92	32.16	88.55	-3,040.64	1,852.48	5,494.81	5,388.73	106.08	51.799		
10,200.00	7,870.00	7,876.17	7,742.77	115.76	32.16	88.57	-3,040.68	1,852.49	5,451.71	5,345.68	106.03	51.418		
10,300.00	7,870.00	7,878.43	7,745.03	115.46	32.17	88.61	-3,040.74	1,852.52	5,372.50	5,266.57	105.93	50.718		
10,400.00	7,870.00	7,880.69	7,747.29	115.18	32.17	88.65	-3,040.80	1,852.54	5,293.99	5,188.15	105.83	50.023		
10,500.00	7,870.00	7,882.97	7,749.56	114.91	32.18	88.69	-3,040.86	1,852.56	5,216.21	5,110.47	105.74	49.333		
10,600.00	7,870.00	7,885.25	7,751.85	114.65	32.19	88.73	-3,040.92	1,852.58	5,139.20	5,033.56	105.64	48.648		
10,700.00	7,870.00	7,887.55	7,754.14	114.41	32.20	88.77	-3,040.98	1,852.60	5,063.00	4,957.45	105.55	47.969		
10,800.00	7,870.00	7,889.85	7,756.45	114.17	32.20	88.81	-3,041.04	1,852.63	4,987.63	4,882.18	105.45	47.296		
10,900.00	7,870.00	7,892.17	7,758.76	113.95	32.21	88.85	-3,041.10	1,852.65	4,913.14	4,807.78	105.37	46.630		
11,000.00	7,870.00	7,894.49	7,761.09	113.75	32.22	88.89	-3,041.17	1,852.67	4,839.57	4,734.30	105.28	45.969		
11,100.00	7,870.00	7,896.83	7,763.43	113.55	32.23	88.93	-3,041.23	1,852.69	4,766.97	4,661.77	105.20	45.315		
11,200.00	7,870.00	7,899.18	7,765.77	113.37	32.23	88.97	-3,041.29	1,852.71	4,695.36	4,590.25	105.12	44.668		
11,300.00	7,870.00	7,901.54	7,768.13	113.20	32.24	89.01	-3,041.36	1,852.74	4,624.81	4,519.77	105.04	44.029		
11,400.00	7,870.00	7,903.91	7,770.50	113.04	32.25	89.05	-3,041.42	1,852.76	4,555.37	4,450.39	104.97	43.396		
11,500.00	7,870.00	7,906.29	7,772.88	112.89	32.26	89.10	-3,041.49	1,852.78	4,487.07	4,382.16	104.91	42.772		
11,600.00	7,870.00	7,908.68	7,775.27	112.76	32.27	89.14	-3,041.55	1,852.80	4,419.98	4,315.13	104.85	42.156		
11,700.00	7,870.00	7,911.08	7,777.67	112.64	32.27	89.18	-3,041.62	1,852.82	4,354.15	4,249.35	104.80	41.548		
11,800.00	7,870.00	7,913.49	7,780.08	112.53	32.28	89.22	-3,041.69	1,852.85	4,289.64	4,184.89	104.76	40.949		
11,900.00	7,870.00	7,915.92	7,782.50	112.44	32.29	89.26	-3,041.75	1,852.87	4,226.51	4,121.79	104.72	40.359		
12,000.00	7,870.00	7,918.35	7,784.94	112.36	32.30	89.30	-3,041.82	1,852.89	4,164.83	4,060.13	104.70	39.778		
12,100.00	7,870.00	7,920.80	7,787.38	112.29	32.30	89.35	-3,041.89	1,852.91	4,104.65	3,999.96	104.69	39.208		
12,200.00	7,870.00	7,923.26	7,789.84	112.24	32.31	89.39	-3,041.96	1,852.93	4,046.05	3,941.36	104.69	38.648		
12,300.00	7,870.00	7,925.73	7,792.31	112.20	32.32	89.43	-3,042.02	1,852.96	3,989.09	3,884.38	104.70	38.099		
12,400.00	7,870.00	7,928.21	7,794.79	112.17	32.33	89.48	-3,042.09	1,852.98	3,933.84	3,829.11	104.73	37.561		
12,500.00	7,870.00	7,930.70	7,797.28	112.16	32.34	89.52	-3,042.16	1,853.00	3,880.39	3,775.61	104.78	37.034		
12,600.00	7,870.00	7,933.21	7,799.78	112.17	32.34	89.56	-3,042.23	1,853.02	3,828.80	3,723.96	104.84	36.520		
12,700.00	7,870.00	7,935.72	7,802.30	112.19	32.35	89.61	-3,042.30	1,853.04	3,779.15	3,674.23	104.92	36.019		
12,800.00	7,870.00	7,938.25	7,804.83	112.23	32.36	89.65	-3,042.37	1,853.07	3,731.52	3,626.50	105.02	35.531		
12,900.00	7,870.00	7,940.79	7,807.37	112.28	32.37	89.69	-3,042.45	1,853.09	3,685.99	3,580.85	105.14	35.057		
13,000.00	7,870.00	7,943.34	7,809.92	112.36	32.38	89.74	-3,042.52	1,853.11	3,642.63	3,537.34	105.28	34.598		
13,100.00	7,870.00	7,945.91	7,812.48	112.45	32.39	89.78	-3,042.59	1,853.13	3,601.52	3,496.07	105.45	34.154		
13,200.00	7,870.00	7,948.48	7,815.05	112.56	32.39	89.83	-3,042.66	1,853.15	3,562.75	3,457.11	105.64	33.726		
13,300.00	7,870.00	7,951.07	7,817.64	112.68	32.40	89.87	-3,042.74	1,853.17	3,526.38	3,420.53	105.85	33.315		
13,400.00	7,870.00	7,953.67	7,820.24	112.83	32.41	89.92	-3,042.81	1,853.20	3,492.50	3,386.41	106.09	32.921		
13,500.00	7,870.00	7,955.74	7,822.31	113.00	32.42	89.95	-3,042.87	1,853.21	3,461.17	3,354.83	106.34	32.547		
13,600.00	7,870.00	7,958.14	7,824.70	113.19	32.43	89.99	-3,042.94	1,853.23	3,432.47	3,325.84	106.63	32.191		
13,700.00	7,870.00	7,960.55	7,827.11	113.40	32.43	90.04	-3,043.01	1,853.25	3,406.46	3,299.52	106.94	31.855		
13,800.00	7,870.00	7,962.97	7,829.53	113.63	32.44	90.08	-3,043.08	1,853.27	3,383.21	3,275.94	107.27	31.539		
13,900.00	7,870.00	7,965.40	7,831.97	113.89	32.45	90.12	-3,043.15	1,853.29	3,362.77	3,255.14	107.63	31.245		
14,000.00	7,870.00	7,967.85	7,834.41	114.18	32.46	90.16	-3,043.22	1,853.31	3,345.19	3,237.19	108.00	30.973		
14,100.00	7,870.00	7,970.31	7,836.87	114.48	32.47	90.21	-3,043.29	1,853.33	3,330.52	3,222.12	108.40	30.724		
14,200.00	7,870.00	7,972.78	7,839.34	114.82	32.47	90.25	-3,043.36	1,853.34	3,318.80	3,209.98	108.82	30.499		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,300.00	7,870.00	7,975.26	7,841.82	115.18	32.48	90.29	-3,043.44	1,853.36	3,310.06	3,200.81	109.25	30.298		
14,400.00	7,870.00	7,977.75	7,844.31	115.57	32.49	90.34	-3,043.51	1,853.38	3,304.32	3,194.62	109.70	30.122		
14,500.00	7,870.00	7,980.26	7,846.82	115.99	32.50	90.38	-3,043.58	1,853.40	3,301.60	3,191.44	110.16	29.972		
14,539.96	7,870.00	7,981.27	7,847.82	116.17	32.50	90.40	-3,043.61	1,853.40	3,301.36	3,191.01	110.35	29.918		
14,600.00	7,870.00	7,982.78	7,849.34	116.44	32.51	90.42	-3,043.66	1,853.41	3,301.90	3,191.28	110.63	29.848		
14,700.00	7,870.00	7,985.31	7,851.87	116.92	32.51	90.47	-3,043.73	1,853.43	3,305.23	3,194.13	111.10	29.750		
14,800.00	7,870.00	7,987.86	7,854.41	117.44	32.52	90.51	-3,043.81	1,853.45	3,311.57	3,199.99	111.58	29.679		
14,900.00	7,870.00	7,990.42	7,856.97	117.98	32.53	90.55	-3,043.88	1,853.46	3,320.91	3,208.86	112.06	29.636		
15,000.00	7,870.00	7,992.99	7,859.54	118.56	32.54	90.60	-3,043.96	1,853.48	3,333.23	3,220.69	112.54	29.619 SF		
15,100.00	7,870.00	7,995.57	7,862.12	119.17	32.55	90.64	-3,044.03	1,853.50	3,348.49	3,235.48	113.01	29.630		
15,200.00	7,870.00	7,998.17	7,864.72	119.81	32.56	90.69	-3,044.11	1,853.51	3,366.64	3,253.16	113.48	29.668		
15,300.00	7,870.00	8,000.78	7,867.33	120.48	32.57	90.73	-3,044.19	1,853.53	3,387.65	3,273.71	113.94	29.733		
15,400.00	7,870.00	8,003.41	7,869.95	121.19	32.57	90.78	-3,044.27	1,853.54	3,411.46	3,297.08	114.38	29.825		
15,500.00	7,870.00	8,006.04	7,872.59	121.93	32.58	90.83	-3,044.35	1,853.56	3,438.01	3,323.19	114.82	29.943		
15,600.00	7,870.00	8,008.70	7,875.24	122.71	32.59	90.87	-3,044.43	1,853.57	3,467.24	3,352.00	115.24	30.087		
15,700.00	7,870.00	8,011.36	7,877.90	123.52	32.60	90.92	-3,044.51	1,853.59	3,499.09	3,383.44	115.65	30.257		
15,800.00	7,870.00	8,014.04	7,880.58	124.36	32.61	90.96	-3,044.59	1,853.60	3,533.47	3,417.43	116.04	30.451		
15,900.00	7,870.00	8,016.73	7,883.27	125.23	32.62	91.01	-3,044.67	1,853.61	3,570.33	3,453.91	116.41	30.670		
16,000.00	7,870.00	8,019.44	7,885.98	126.14	32.63	91.06	-3,044.75	1,853.63	3,609.57	3,492.81	116.77	30.913		
16,100.00	7,870.00	8,022.16	7,888.70	127.07	32.64	91.11	-3,044.84	1,853.64	3,651.13	3,534.03	117.11	31.178		
16,200.00	7,870.00	8,024.90	7,891.43	128.04	32.64	91.15	-3,044.92	1,853.65	3,694.93	3,577.51	117.43	31.466		
16,300.00	7,870.00	8,027.65	7,894.18	129.04	32.65	91.20	-3,045.00	1,853.67	3,740.89	3,623.16	117.73	31.776		
16,400.00	7,870.00	8,030.41	7,896.95	130.06	32.66	91.25	-3,045.09	1,853.68	3,788.93	3,670.92	118.01	32.106		
16,500.00	7,870.00	8,033.19	7,899.72	131.11	32.67	91.30	-3,045.18	1,853.69	3,838.97	3,720.69	118.28	32.457		
16,600.00	7,870.00	8,035.99	7,902.52	132.19	32.68	91.35	-3,045.26	1,853.70	3,890.94	3,772.41	118.53	32.826		
16,700.00	7,870.00	8,038.79	7,905.32	133.29	32.69	91.39	-3,045.35	1,853.71	3,944.75	3,825.99	118.76	33.215		
16,800.00	7,870.00	8,041.62	7,908.15	134.42	32.70	91.44	-3,045.44	1,853.72	4,000.34	3,881.36	118.98	33.621		
16,900.00	7,870.00	8,044.46	7,910.99	135.57	32.71	91.49	-3,045.53	1,853.73	4,057.63	3,938.44	119.19	34.044		
17,000.00	7,870.00	8,047.35	7,913.87	136.75	32.72	91.54	-3,045.62	1,853.74	4,116.55	3,997.17	119.38	34.484		
17,100.00	7,870.00	8,050.22	7,916.74	137.94	32.73	91.59	-3,045.70	1,853.75	4,177.03	4,057.48	119.55	34.940		
17,200.00	7,870.00	8,053.08	7,919.60	139.16	32.74	91.64	-3,045.79	1,853.76	4,239.00	4,119.29	119.71	35.410		
17,300.00	7,870.00	8,055.94	7,922.46	140.39	32.75	91.69	-3,045.88	1,853.77	4,302.41	4,182.55	119.86	35.895		
17,400.00	7,870.00	8,058.78	7,925.30	141.65	32.76	91.74	-3,045.97	1,853.78	4,367.18	4,247.18	120.00	36.394		
17,500.00	7,870.00	8,061.62	7,928.14	142.92	32.77	91.79	-3,046.06	1,853.79	4,433.26	4,313.13	120.12	36.906		
17,600.00	7,870.00	8,064.45	7,930.96	144.21	32.77	91.84	-3,046.15	1,853.80	4,500.59	4,380.35	120.24	37.430		
17,700.00	7,870.00	8,067.26	7,933.78	145.52	32.78	91.89	-3,046.23	1,853.81	4,569.11	4,448.76	120.35	37.967		
17,800.00	7,870.00	8,070.07	7,936.59	146.84	32.79	91.94	-3,046.32	1,853.82	4,638.78	4,518.33	120.44	38.514		
17,900.00	7,870.00	8,072.87	7,939.39	148.18	32.80	91.98	-3,046.40	1,853.83	4,709.53	4,589.00	120.53	39.073		
18,000.00	7,870.00	8,075.67	7,942.18	149.54	32.81	92.03	-3,046.49	1,853.84	4,781.33	4,660.72	120.61	39.642		
18,100.00	7,870.00	8,078.45	7,944.96	150.90	32.82	92.08	-3,046.58	1,853.85	4,854.13	4,733.44	120.69	40.221		
18,200.00	7,870.00	8,081.23	7,947.73	152.28	32.83	92.13	-3,046.66	1,853.86	4,927.88	4,807.12	120.75	40.809		
18,300.00	7,870.00	8,083.99	7,950.50	153.67	32.84	92.18	-3,046.74	1,853.87	5,002.54	4,881.72	120.81	41.407		
18,400.00	7,870.00	8,086.75	7,953.26	155.07	32.85	92.23	-3,046.83	1,853.88	5,078.06	4,957.19	120.87	42.013		
18,500.00	7,870.00	8,089.50	7,956.00	156.49	32.86	92.27	-3,046.91	1,853.89	5,154.42	5,033.50	120.92	42.627		
18,600.00	7,870.00	8,092.24	7,958.74	157.91	32.87	92.32	-3,047.00	1,853.90	5,231.58	5,110.61	120.97	43.249		
18,700.00	7,870.00	8,094.97	7,961.47	159.35	32.88	92.37	-3,047.08	1,853.90	5,309.50	5,188.49	121.01	43.878		
18,800.00	7,870.00	8,097.69	7,964.19	160.79	32.88	92.41	-3,047.16	1,853.91	5,388.14	5,267.10	121.04	44.514		
18,900.00	7,870.00	8,100.41	7,966.91	162.25	32.89	92.46	-3,047.24	1,853.92	5,467.48	5,346.40	121.08	45.157		
19,000.00	7,870.00	8,103.12	7,969.61	163.71	32.90	92.51	-3,047.32	1,853.93	5,547.49	5,426.38	121.11	45.807		
19,100.00	7,870.00	8,105.81	7,972.31	165.18	32.91	92.56	-3,047.41	1,853.94	5,628.13	5,507.00	121.13	46.462		
19,200.00	7,870.00	8,108.50	7,975.00	166.66	32.92	92.60	-3,047.49	1,853.94	5,709.39	5,588.23	121.16	47.124		
19,300.00	7,870.00	8,111.19	7,977.68	168.15	32.93	92.65	-3,047.57	1,853.95	5,791.23	5,670.05	121.18	47.790		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,400.00	7,870.00	8,113.86	7,980.35	169.65	32.94	92.69	-3,047.65	1,853.96	5,873.63	5,752.43	121.20	48.463	
19,500.00	7,870.00	8,116.52	7,983.02	171.15	32.95	92.74	-3,047.73	1,853.97	5,956.57	5,835.35	121.22	49.140	
19,600.00	7,870.00	8,119.18	7,985.67	172.66	32.96	92.79	-3,047.81	1,853.97	6,040.03	5,918.79	121.23	49.822	
19,700.00	7,870.00	8,121.83	7,988.32	174.18	32.96	92.83	-3,047.89	1,853.98	6,123.98	6,002.73	121.25	50.508	
19,800.00	7,870.00	8,124.47	7,990.96	175.70	32.97	92.88	-3,047.97	1,853.99	6,208.40	6,087.14	121.26	51.199	
19,889.26	7,870.00	8,126.82	7,993.31	177.06	32.98	92.92	-3,048.04	1,853.99	6,284.14	6,162.87	121.27	51.819	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	109.41	-1,475.02	4,186.85	4,439.33							
100.00	100.00	34.21	34.21	0.13	0.05	109.41	-1,475.01	4,186.92	4,439.18	4,438.99	0.19	N/A				
200.00	200.00	100.00	99.99	0.49	0.16	109.40	-1,474.93	4,187.50	4,439.96	4,439.31	0.65	6,825.188				
300.00	300.00	245.83	245.81	0.85	0.63	109.39	-1,474.45	4,188.93	4,440.85	4,439.36	1.49	2,990.266				
400.00	399.98	516.44	516.06	1.21	1.58	41.46	-1,482.90	4,181.01	4,437.92	4,435.13	2.79	1,589.529				
500.00	499.84	616.30	615.20	1.56	1.96	41.76	-1,492.14	4,173.50	4,430.01	4,426.48	3.53	1,255.533				
600.00	599.45	680.17	678.29	1.93	2.22	42.06	-1,500.62	4,168.30	4,420.30	4,416.15	4.15	1,065.673				
700.00	698.70	782.81	778.92	2.32	2.68	42.59	-1,518.30	4,158.67	4,408.32	4,403.35	4.97	887.093				
800.00	797.47	864.18	858.10	2.72	3.06	43.14	-1,534.98	4,150.14	4,394.08	4,388.35	5.74	765.955				
900.00	895.62	929.83	921.76	3.16	3.39	43.68	-1,549.47	4,143.20	4,378.02	4,371.56	6.46	677.418				
1,000.00	993.06	1,034.19	1,022.80	3.63	3.93	44.49	-1,573.14	4,132.20	4,360.06	4,352.64	7.42	587.739				
1,100.00	1,089.64	1,186.69	1,170.54	4.14	4.73	45.66	-1,606.58	4,114.58	4,338.77	4,330.11	8.66	500.801				
1,200.00	1,185.27	1,249.68	1,231.64	4.70	5.07	46.38	-1,620.01	4,107.22	4,315.36	4,305.90	9.47	455.818				
1,300.00	1,279.82	1,308.00	1,288.27	5.31	5.37	47.13	-1,632.44	4,100.93	4,290.73	4,280.45	10.28	417.401				
1,400.00	1,373.17	1,404.60	1,381.87	5.97	5.90	48.19	-1,653.85	4,090.34	4,264.48	4,253.14	11.34	375.968				
1,500.00	1,465.21	1,462.57	1,437.84	6.69	6.22	49.06	-1,667.41	4,083.69	4,236.57	4,224.31	12.25	345.789				
1,600.00	1,555.84	1,530.82	1,503.62	7.47	6.60	50.07	-1,683.88	4,075.97	4,207.48	4,194.21	13.27	317.076				
1,700.00	1,644.94	1,605.65	1,575.67	8.31	7.03	51.20	-1,702.16	4,067.42	4,176.99	4,162.61	14.38	290.434				
1,800.00	1,732.39	1,659.49	1,627.51	9.23	7.34	52.20	-1,715.40	4,061.42	4,145.47	4,130.03	15.43	268.619				
1,900.00	1,818.11	1,736.42	1,701.64	10.21	7.77	53.47	-1,734.25	4,053.18	4,113.03	4,096.35	16.68	246.628				
2,000.00	1,901.97	1,826.38	1,788.48	11.26	8.28	54.94	-1,755.62	4,043.43	4,079.19	4,061.13	18.06	225.861				
2,100.00	1,983.88	1,919.82	1,878.80	12.38	8.80	56.52	-1,777.27	4,033.14	4,044.18	4,024.64	19.53	207.058				
2,200.00	2,063.74	2,015.81	1,971.75	13.57	9.34	58.21	-1,798.58	4,022.20	4,007.83	3,986.74	21.09	190.051				
2,300.00	2,141.45	2,300.00	2,084.74	14.84	10.90	60.23	-1,823.50	4,007.90	3,970.05	3,946.29	23.76	167.084				
2,327.78	2,162.65	2,191.70	2,142.23	15.21	10.30	61.12	-1,835.76	4,000.12	3,959.28	3,935.80	23.49	168.577				
2,400.00	2,217.51	2,235.34	2,184.58	16.17	10.54	61.64	-1,844.54	3,994.31	3,931.46	3,906.88	24.58	159.970				
2,500.00	2,293.49	2,294.79	2,242.31	17.51	10.87	62.35	-1,856.40	3,986.48	3,894.00	3,867.89	26.11	149.126				
2,600.00	2,369.47	2,346.00	2,292.03	18.86	11.14	62.96	-1,866.65	3,979.73	3,857.84	3,830.21	27.64	139.593				
2,700.00	2,445.45	2,394.72	2,339.35	20.22	11.41	63.55	-1,876.44	3,973.47	3,823.17	3,793.99	29.18	131.038				
2,800.00	2,521.42	2,441.00	2,384.32	21.59	11.66	64.11	-1,885.73	3,967.81	3,790.12	3,759.39	30.73	123.339				
2,900.00	2,597.40	2,488.59	2,430.59	22.97	11.91	64.69	-1,895.37	3,962.16	3,758.67	3,726.35	32.31	116.318				
3,000.00	2,673.38	2,545.46	2,485.83	24.34	12.22	65.38	-1,907.09	3,955.45	3,728.79	3,694.82	33.98	109.749				
3,100.00	2,749.36	2,647.00	2,584.44	25.73	12.77	66.64	-1,927.72	3,942.80	3,699.86	3,663.93	35.92	102.995				
3,200.00	2,825.33	2,695.19	2,631.27	27.11	13.03	67.24	-1,937.35	3,936.79	3,672.33	3,634.75	37.58	97.729				
3,300.00	2,901.31	2,744.46	2,679.20	28.50	13.30	67.85	-1,947.15	3,930.93	3,646.51	3,607.26	39.25	92.905				
3,400.00	2,977.29	2,795.26	2,728.69	29.90	13.57	68.48	-1,957.12	3,925.24	3,622.41	3,581.47	40.94	88.477				
3,500.00	3,053.27	2,856.94	2,788.85	31.29	13.89	69.25	-1,969.04	3,918.72	3,599.98	3,557.28	42.71	84.299				
3,600.00	3,129.24	2,927.26	2,857.48	32.69	14.25	70.12	-1,982.48	3,911.29	3,579.01	3,534.48	44.53	80.377				
3,700.00	3,205.22	2,997.63	2,926.16	34.08	14.62	71.01	-1,995.80	3,903.78	3,559.47	3,513.11	46.36	76.779				
3,800.00	3,281.20	3,049.56	2,976.83	35.48	14.89	71.66	-2,005.73	3,898.14	3,541.53	3,493.44	48.09	73.640				
3,900.00	3,357.18	3,097.76	3,023.74	36.88	15.15	72.27	-2,015.37	3,892.71	3,525.47	3,475.67	49.81	70.784				
4,000.00	3,433.15	3,145.20	3,069.82	38.29	15.41	72.88	-2,025.21	3,887.24	3,511.35	3,459.83	51.52	68.154				
4,100.00	3,509.13	3,196.00	3,119.11	39.69	15.69	73.54	-2,036.04	3,881.37	3,499.19	3,445.94	53.25	65.708				
4,200.00	3,585.11	3,249.05	3,170.61	41.09	15.97	74.22	-2,047.34	3,875.50	3,488.95	3,433.96	54.99	63.446				
4,300.00	3,661.08	3,306.35	3,226.38	42.50	16.28	74.96	-2,059.18	3,869.77	3,480.50	3,423.76	56.74	61.337				
4,400.00	3,737.06	3,359.24	3,277.92	43.90	16.56	75.63	-2,069.98	3,864.89	3,473.93	3,415.48	58.45	59.434				
4,500.00	3,813.04	3,424.12	3,341.16	45.31	16.90	76.46	-2,083.25	3,859.10	3,469.18	3,408.95	60.23	57.602				
4,600.00	3,889.02	3,493.95	3,409.14	46.71	17.28	77.35	-2,097.73	3,852.35	3,466.04	3,404.01	62.03	55.881				
4,700.00	3,964.99	3,562.26	3,475.54	48.12	17.64	78.23	-2,112.08	3,845.16	3,464.53	3,400.73	63.80	54.304				
4,785.04	4,029.61	3,660.78	3,571.39	49.32	18.16	79.51	-2,132.16	3,834.51	3,464.27	3,398.70	65.56	52.838				
4,800.00	4,040.97	3,678.91	3,589.08	49.53	18.25	79.74	-2,135.67	3,832.59	3,464.27	3,398.40	65.88	52.587				
4,900.00	4,116.95	3,788.97	3,696.69	50.94	18.82	81.14	-2,155.74	3,821.23	3,464.74	3,396.87	67.87	51.048				

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,192.93	3,881.11	3,787.19	52.35	19.26	82.30	-2,170.92	3,812.89	3,466.29	3,396.59	69.71	49.726		
5,100.00	4,268.90	4,075.37	3,979.19	53.76	20.11	84.66	-2,196.95	3,799.21	3,468.61	3,396.58	72.03	48.155		
5,200.00	4,344.88	4,275.00	4,177.96	55.16	20.84	86.99	-2,212.44	3,789.71	3,468.96	3,394.77	74.19	46.761		
5,249.37	4,382.39	5,249.37	4,186.05	55.86	24.24	87.07	-2,212.14	3,789.87	3,468.75	3,390.50	78.25	44.330		
5,300.00	4,420.86	4,403.12	4,305.93	56.57	21.24	88.43	-2,217.51	3,786.37	3,468.94	3,392.99	75.95	45.673		
5,400.00	4,496.84	4,516.82	4,419.59	57.98	21.57	89.68	-2,220.02	3,784.45	3,469.36	3,391.73	77.63	44.691		
5,500.00	4,572.81	4,633.29	4,536.05	59.39	21.91	90.95	-2,220.75	3,783.43	3,470.18	3,390.89	79.29	43.764		
5,600.00	4,648.79	4,727.87	4,630.62	60.81	22.15	91.97	-2,220.55	3,782.53	3,471.64	3,390.80	80.85	42.941		
5,700.00	4,724.77	4,821.03	4,723.77	62.22	22.38	92.98	-2,219.69	3,781.70	3,473.83	3,391.45	82.38	42.169		
5,800.00	4,800.74	4,900.38	4,803.12	63.63	22.58	93.83	-2,218.79	3,780.90	3,477.07	3,393.21	83.86	41.463		
5,900.00	4,876.72	4,981.73	4,884.45	65.04	22.78	94.71	-2,217.81	3,779.85	3,481.43	3,396.10	85.33	40.800		
6,000.00	4,952.70	5,043.86	4,946.57	66.45	22.95	95.38	-2,217.15	3,778.96	3,487.10	3,400.36	86.74	40.202		
6,100.00	5,028.68	5,105.61	5,008.32	67.86	23.12	96.05	-2,216.74	3,778.13	3,494.29	3,406.16	88.13	39.651		
6,200.00	5,104.65	5,167.29	5,069.99	69.27	23.29	96.71	-2,216.56	3,777.34	3,502.99	3,413.51	89.49	39.146		
6,300.00	5,180.63	5,228.91	5,131.60	70.69	23.45	97.37	-2,216.61	3,776.61	3,513.20	3,422.38	90.82	38.684		
6,400.00	5,256.61	5,294.04	5,196.73	72.10	23.64	98.07	-2,216.91	3,775.88	3,524.89	3,432.75	92.14	38.256		
6,500.00	5,332.59	5,364.96	5,267.64	73.51	23.84	98.83	-2,217.35	3,775.13	3,537.90	3,444.44	93.45	37.857		
6,600.00	5,408.56	5,440.76	5,343.44	74.92	24.07	99.63	-2,217.85	3,774.35	3,552.12	3,457.36	94.76	37.485		
6,700.00	5,484.54	5,531.54	5,434.22	76.34	24.33	100.59	-2,218.28	3,773.36	3,567.36	3,471.27	96.09	37.126		
6,800.00	5,560.52	5,615.26	5,517.93	77.75	24.57	101.47	-2,218.35	3,772.34	3,583.45	3,486.08	97.37	36.804		
6,900.00	5,636.50	5,696.91	5,599.57	79.16	24.81	102.33	-2,218.28	3,771.35	3,600.53	3,501.92	98.61	36.512		
7,000.00	5,712.47	5,766.96	5,669.61	80.57	25.01	103.05	-2,218.14	3,770.51	3,618.66	3,518.87	99.79	36.261		
7,100.00	5,788.45	5,824.93	5,727.58	81.99	25.18	103.65	-2,218.26	3,769.78	3,638.18	3,537.27	100.91	36.053		
7,200.00	5,864.43	5,953.38	5,856.01	83.40	25.55	104.97	-2,217.83	3,767.98	3,658.36	3,556.13	102.22	35.787		
7,300.00	5,940.40	6,034.03	5,936.65	84.81	25.77	105.79	-2,216.93	3,766.78	3,679.04	3,575.68	103.36	35.595		
7,400.00	6,016.38	6,100.70	6,003.31	86.23	25.96	106.47	-2,216.24	3,765.84	3,700.83	3,596.41	104.42	35.441		
7,500.00	6,092.36	6,177.41	6,080.02	87.64	26.17	107.24	-2,215.55	3,764.85	3,723.75	3,618.26	105.49	35.298		
7,600.00	6,168.34	6,253.05	6,155.64	89.05	26.39	107.99	-2,214.80	3,763.89	3,747.63	3,641.09	106.54	35.177		
7,700.00	6,244.31	6,324.48	6,227.06	90.47	26.59	108.70	-2,214.14	3,762.75	3,772.55	3,665.01	107.54	35.080		
7,800.00	6,320.29	6,393.21	6,295.78	91.88	26.79	109.38	-2,213.60	3,761.55	3,798.56	3,690.05	108.51	35.005		
7,900.00	6,396.27	6,464.75	6,367.31	93.30	27.00	110.08	-2,213.13	3,760.22	3,825.63	3,716.16	109.47	34.946		
8,000.00	6,472.25	6,531.97	6,434.50	94.71	27.20	110.73	-2,212.76	3,758.92	3,853.74	3,743.35	110.39	34.910		
8,100.00	6,548.22	6,597.23	6,499.76	96.12	27.40	111.35	-2,212.60	3,757.90	3,882.97	3,771.69	111.28	34.893		
8,200.00	6,624.20	6,673.55	6,576.08	97.54	27.63	112.08	-2,212.51	3,756.97	3,913.17	3,800.97	112.19	34.879		
8,300.00	6,700.18	6,738.26	6,640.78	98.95	27.82	112.68	-2,212.52	3,756.31	3,944.30	3,831.26	113.04	34.893		
8,400.00	6,776.16	6,802.09	6,704.60	100.37	28.02	113.27	-2,212.72	3,755.67	3,976.52	3,862.65	113.86	34.923		
8,500.00	6,852.13	6,867.55	6,770.06	101.78	28.23	113.87	-2,213.09	3,754.94	4,009.75	3,895.07	114.67	34.967		
8,600.00	6,928.11	6,933.45	6,835.95	103.20	28.44	114.48	-2,213.61	3,754.09	4,043.96	3,928.49	115.46	35.024		
8,700.00	7,004.09	6,997.76	6,900.26	104.61	28.64	115.06	-2,214.24	3,753.15	4,079.13	3,962.90	116.23	35.097		
8,800.00	7,080.06	7,060.19	6,962.67	106.02	28.85	115.62	-2,214.99	3,752.00	4,115.28	3,998.33	116.96	35.186		
8,900.00	7,156.04	7,132.92	7,035.37	107.44	29.08	116.27	-2,215.93	3,750.33	4,152.33	4,034.61	117.72	35.274		
9,000.00	7,232.02	7,199.09	7,101.52	108.85	29.30	116.86	-2,216.78	3,748.54	4,190.18	4,071.76	118.42	35.383		
9,104.68	7,311.55	7,265.52	7,167.91	110.33	29.52	117.45	-2,217.78	3,746.63	4,230.78	4,111.65	119.13	35.513		
9,150.00	7,346.29	7,295.29	7,197.66	110.97	29.62	112.16	-2,218.27	3,745.74	4,247.03	4,127.58	119.44	35.557		
9,200.00	7,385.15	7,328.59	7,230.94	111.65	29.74	106.08	-2,218.85	3,744.71	4,261.30	4,141.51	119.79	35.572		
9,250.00	7,424.29	7,362.13	7,264.46	112.31	29.85	99.90	-2,219.46	3,743.64	4,271.67	4,151.52	120.15	35.554		
9,300.00	7,463.40	7,395.68	7,297.98	112.93	29.96	93.81	-2,220.10	3,742.55	4,278.08	4,157.58	120.49	35.504		
9,350.00	7,502.19	7,457.67	7,359.85	113.51	30.77	90.01	-2,218.40	3,736.62	4,279.04	4,157.25	121.78	35.137		
9,400.00	7,540.36	7,490.57	7,392.73	114.04	30.86	84.69	-2,217.51	3,736.38	4,275.47	4,153.35	122.12	35.012		
9,450.00	7,577.62	7,523.15	7,425.30	114.53	30.95	79.95	-2,216.67	3,736.16	4,267.97	4,145.54	122.43	34.861		
9,500.00	7,613.70	7,564.33	7,466.47	114.95	31.07	75.95	-2,215.62	3,735.96	4,256.56	4,133.81	122.75	34.676		
9,550.00	7,648.30	7,603.89	7,506.02	115.32	31.18	72.62	-2,214.60	3,735.90	4,241.30	4,118.25	123.05	34.468		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,600.00	7,681.18	7,838.40	7,740.51	115.63	31.27	69.93	-2,213.70	3,735.95	4,222.31	4,099.00	123.30	34.243		
9,650.00	7,712.08	7,869.37	7,771.47	115.88	31.36	67.89	-2,212.89	3,736.02	4,199.76	4,076.24	123.52	34.001		
9,700.00	7,740.76	7,898.02	7,800.12	116.08	31.44	66.50	-2,212.15	3,736.11	4,173.81	4,050.12	123.70	33.742		
9,750.00	7,767.01	7,923.96	7,826.05	116.23	31.51	65.77	-2,211.48	3,736.22	4,144.66	4,020.82	123.84	33.468		
9,800.00	7,790.63	7,947.08	7,849.16	116.33	31.57	65.71	-2,210.89	3,736.35	4,112.50	3,988.56	123.94	33.180		
9,850.00	7,811.44	7,967.32	7,869.39	116.38	31.63	66.38	-2,210.38	3,736.48	4,077.56	3,953.55	124.01	32.880		
9,900.00	7,829.28	7,984.51	7,886.58	116.38	31.67	67.85	-2,209.95	3,736.61	4,040.09	3,916.04	124.05	32.568		
9,950.00	7,844.01	7,998.51	7,900.57	116.35	31.71	70.27	-2,209.61	3,736.73	4,000.34	3,876.28	124.06	32.245		
10,000.00	7,855.52	8,009.19	7,911.24	116.28	31.74	73.83	-2,209.35	3,736.83	3,958.57	3,834.53	124.04	31.914		
10,050.00	7,863.72	8,015.39	7,917.45	116.18	31.76	78.82	-2,209.20	3,736.89	3,915.09	3,791.10	123.99	31.575		
10,100.00	7,868.56	8,018.81	7,920.87	116.06	31.77	85.67	-2,209.11	3,736.92	3,870.19	3,746.26	123.93	31.229		
10,145.94	7,870.00	8,019.13	7,921.18	115.92	31.77	93.99	-2,209.11	3,736.93	3,827.93	3,704.08	123.86	30.906		
10,200.00	7,870.00	8,017.91	7,919.96	115.76	31.77	93.94	-2,209.13	3,736.91	3,777.81	3,654.04	123.76	30.524		
10,300.00	7,870.00	8,015.63	7,917.69	115.46	31.76	93.85	-2,209.19	3,736.89	3,685.38	3,561.79	123.58	29.821		
10,400.00	7,870.00	8,014.20	7,916.25	115.18	31.76	93.80	-2,209.22	3,736.88	3,593.35	3,469.95	123.39	29.121		
10,500.00	7,870.00	8,011.68	7,913.73	114.91	31.75	93.69	-2,209.29	3,736.86	3,501.75	3,378.57	123.19	28.426		
10,600.00	7,870.00	8,009.15	7,911.21	114.65	31.74	93.59	-2,209.35	3,736.83	3,410.63	3,287.67	122.96	27.737		
10,700.00	7,870.00	8,006.62	7,908.68	114.41	31.74	93.49	-2,209.41	3,736.81	3,320.02	3,197.30	122.72	27.053		
10,800.00	7,870.00	8,004.08	7,906.14	114.17	31.73	93.39	-2,209.47	3,736.79	3,229.96	3,107.50	122.46	26.375		
10,900.00	7,870.00	8,001.54	7,903.59	113.95	31.72	93.29	-2,209.53	3,736.76	3,140.50	3,018.32	122.18	25.704		
11,000.00	7,870.00	7,998.98	7,901.04	113.75	31.71	93.18	-2,209.60	3,736.74	3,051.69	2,929.81	121.87	25.039		
11,100.00	7,870.00	7,996.42	7,898.48	113.55	31.71	93.08	-2,209.66	3,736.72	2,963.59	2,842.05	121.54	24.383		
11,200.00	7,870.00	7,993.85	7,895.91	113.37	31.70	92.98	-2,209.72	3,736.69	2,876.27	2,755.08	121.19	23.734		
11,300.00	7,870.00	7,991.27	7,893.33	113.20	31.69	92.87	-2,209.79	3,736.67	2,789.80	2,669.00	120.79	23.095		
11,400.00	7,870.00	7,988.68	7,890.74	113.04	31.69	92.77	-2,209.85	3,736.65	2,704.25	2,583.89	120.37	22.466		
11,500.00	7,870.00	7,986.09	7,888.15	112.89	31.68	92.67	-2,209.91	3,736.63	2,619.73	2,499.83	119.90	21.849		
11,600.00	7,870.00	7,983.48	7,885.55	112.76	31.67	92.56	-2,209.98	3,736.61	2,536.34	2,416.94	119.40	21.243		
11,700.00	7,870.00	7,980.87	7,882.94	112.64	31.66	92.46	-2,210.04	3,736.59	2,454.18	2,335.34	118.84	20.651		
11,800.00	7,870.00	7,978.25	7,880.32	112.53	31.66	92.35	-2,210.11	3,736.56	2,373.39	2,255.16	118.23	20.074		
11,900.00	7,870.00	7,975.63	7,877.70	112.44	31.65	92.24	-2,210.17	3,736.54	2,294.11	2,176.54	117.57	19.513		
12,000.00	7,870.00	7,972.99	7,875.06	112.36	31.64	92.14	-2,210.24	3,736.52	2,216.50	2,099.67	116.84	18.971		
12,100.00	7,870.00	7,970.35	7,872.42	112.29	31.64	92.03	-2,210.31	3,736.50	2,140.75	2,024.72	116.04	18.449		
12,200.00	7,870.00	7,967.70	7,869.77	112.24	31.63	91.93	-2,210.37	3,736.48	2,067.06	1,951.90	115.16	17.949		
12,300.00	7,870.00	7,965.04	7,867.11	112.20	31.62	91.82	-2,210.44	3,736.47	1,995.66	1,881.45	114.21	17.474		
12,400.00	7,870.00	7,962.37	7,864.44	112.17	31.61	91.71	-2,210.50	3,736.45	1,926.80	1,813.63	113.17	17.026		
12,500.00	7,870.00	7,959.70	7,861.77	112.16	31.61	91.60	-2,210.57	3,736.43	1,860.77	1,748.73	112.04	16.608		
12,600.00	7,870.00	7,957.01	7,859.09	112.17	31.60	91.49	-2,210.64	3,736.41	1,797.87	1,687.04	110.82	16.223		
12,700.00	7,870.00	7,954.32	7,856.39	112.19	31.59	91.39	-2,210.71	3,736.39	1,738.44	1,628.92	109.52	15.874		
12,800.00	7,870.00	7,951.62	7,853.69	112.23	31.58	91.28	-2,210.78	3,736.38	1,682.86	1,574.73	108.14	15.563		
12,900.00	7,870.00	7,948.91	7,850.98	112.28	31.58	91.17	-2,210.84	3,736.36	1,631.52	1,524.83	106.69	15.292		
13,000.00	7,870.00	7,946.19	7,848.27	112.36	31.57	91.06	-2,210.91	3,736.34	1,584.83	1,479.62	105.20	15.064		
13,100.00	7,870.00	7,943.46	7,845.54	112.45	31.56	90.95	-2,210.98	3,736.33	1,543.20	1,439.49	103.71	14.880		
13,200.00	7,870.00	7,940.73	7,842.81	112.56	31.55	90.84	-2,211.05	3,736.31	1,507.07	1,404.82	102.25	14.739		
13,300.00	7,870.00	7,937.98	7,840.06	112.68	31.55	90.73	-2,211.12	3,736.29	1,476.83	1,375.95	100.88	14.639		
13,400.00	7,870.00	7,935.23	7,837.31	112.83	31.54	90.62	-2,211.19	3,736.28	1,452.86	1,353.19	99.67	14.577		
13,500.00	7,870.00	7,932.47	7,834.55	113.00	31.53	90.51	-2,211.26	3,736.26	1,435.46	1,336.79	98.68	14.547		
13,600.00	7,870.00	7,929.70	7,831.78	113.19	31.52	90.39	-2,211.33	3,736.25	1,424.88	1,326.92	97.96	14.545 SF		
13,700.00	7,870.00	7,926.92	7,829.01	113.40	31.52	90.28	-2,211.40	3,736.24	1,421.27	1,323.69	97.58	14.566 ES		
13,701.44	7,870.00	7,926.88	7,828.97	113.40	31.52	90.28	-2,211.40	3,736.24	1,421.27	1,323.69	97.57	14.566 CC		
13,800.00	7,870.00	7,924.13	7,826.22	113.63	31.51	90.17	-2,211.47	3,736.22	1,424.68	1,327.13	97.54	14.605		
13,900.00	7,870.00	7,921.34	7,823.42	113.89	31.50	90.06	-2,211.55	3,736.21	1,435.06	1,337.19	97.87	14.663		
14,000.00	7,870.00	7,918.53	7,820.62	114.18	31.49	89.94	-2,211.62	3,736.20	1,452.26	1,353.74	98.52	14.741		

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

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 4-6-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 120-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,870.00	7,915.72	7,817.81	114.48	31.48	89.83	-2,211.69	3,736.18	1,476.05	1,376.60	99.46	14.841		
14,200.00	7,870.00	7,912.89	7,814.98	114.82	31.48	89.72	-2,211.76	3,736.17	1,506.11	1,405.50	100.61	14.970		
14,300.00	7,870.00	7,910.06	7,812.15	115.18	31.47	89.60	-2,211.84	3,736.16	1,542.08	1,440.16	101.92	15.130		
14,400.00	7,870.00	7,907.35	7,809.44	115.57	31.46	89.49	-2,211.91	3,736.15	1,583.55	1,480.22	103.33	15.325		
14,500.00	7,870.00	7,904.64	7,806.73	115.99	31.45	89.38	-2,211.98	3,736.14	1,630.10	1,525.32	104.78	15.557		
14,600.00	7,870.00	7,901.93	7,804.02	116.44	31.45	89.28	-2,212.05	3,736.13	1,681.32	1,575.09	106.22	15.828		
14,700.00	7,870.00	7,899.21	7,801.31	116.92	31.44	89.17	-2,212.12	3,736.12	1,736.78	1,629.14	107.63	16.136		
14,800.00	7,870.00	7,896.50	7,798.59	117.44	31.43	89.06	-2,212.19	3,736.11	1,796.10	1,687.11	108.98	16.480		
14,900.00	7,870.00	7,893.78	7,795.88	117.98	31.42	88.95	-2,212.26	3,736.10	1,858.90	1,748.64	110.26	16.859		
15,000.00	7,870.00	7,891.06	7,793.16	118.56	31.42	88.84	-2,212.33	3,736.09	1,924.85	1,813.39	111.46	17.270		
15,100.00	7,870.00	7,888.34	7,790.44	119.17	31.41	88.73	-2,212.40	3,736.08	1,993.63	1,881.06	112.57	17.710		
15,200.00	7,870.00	7,885.62	7,787.72	119.81	31.40	88.62	-2,212.47	3,736.07	2,064.96	1,951.36	113.60	18.178		
15,300.00	7,870.00	7,882.90	7,785.00	120.48	31.39	88.51	-2,212.54	3,736.06	2,138.59	2,024.04	114.54	18.670		
15,400.00	7,870.00	7,880.17	7,782.27	121.19	31.39	88.40	-2,212.61	3,736.05	2,214.28	2,098.86	115.41	19.185		
15,500.00	7,870.00	7,877.45	7,779.55	121.93	31.38	88.29	-2,212.68	3,736.04	2,291.83	2,175.62	116.21	19.721		
15,600.00	7,870.00	7,874.72	7,776.82	122.71	31.37	88.18	-2,212.75	3,736.03	2,371.06	2,254.12	116.94	20.275		
15,700.00	7,870.00	7,871.99	7,774.09	123.52	31.36	88.07	-2,212.82	3,736.03	2,451.81	2,334.20	117.61	20.846		
15,800.00	7,870.00	7,869.26	7,771.36	124.36	31.36	87.96	-2,212.90	3,736.02	2,533.93	2,415.70	118.23	21.433		
15,900.00	7,870.00	7,866.52	7,768.63	125.23	31.35	87.85	-2,212.97	3,736.01	2,617.29	2,498.50	118.79	22.033		
16,000.00	7,870.00	7,863.79	7,765.89	126.14	31.34	87.74	-2,213.04	3,736.00	2,701.78	2,582.47	119.30	22.646		
16,100.00	7,870.00	7,861.05	7,763.16	127.07	31.33	87.63	-2,213.11	3,736.00	2,787.29	2,667.51	119.78	23.270		
16,200.00	7,870.00	7,858.31	7,760.42	128.04	31.33	87.52	-2,213.18	3,735.99	2,873.73	2,753.52	120.21	23.905		
16,300.00	7,870.00	7,855.57	7,757.68	129.04	31.32	87.41	-2,213.25	3,735.98	2,961.03	2,840.41	120.62	24.549		
16,400.00	7,870.00	7,852.83	7,754.94	130.06	31.31	87.30	-2,213.32	3,735.98	3,049.10	2,928.12	120.99	25.202		
16,500.00	7,870.00	7,850.08	7,752.19	131.11	31.30	87.19	-2,213.39	3,735.97	3,137.89	3,016.56	121.33	25.863		
16,600.00	7,870.00	7,847.34	7,749.45	132.19	31.30	87.08	-2,213.47	3,735.96	3,227.33	3,105.68	121.64	26.531		
16,700.00	7,870.00	7,844.59	7,746.70	133.29	31.29	86.97	-2,213.54	3,735.96	3,317.37	3,195.43	121.94	27.206		
16,800.00	7,870.00	7,841.84	7,743.96	134.42	31.28	86.86	-2,213.61	3,735.95	3,407.96	3,285.75	122.21	27.886		
16,900.00	7,870.00	7,839.09	7,741.21	135.57	31.27	86.75	-2,213.68	3,735.95	3,499.07	3,376.61	122.46	28.573		
17,000.00	7,870.00	7,836.34	7,738.45	136.75	31.27	86.64	-2,213.75	3,735.94	3,590.64	3,467.95	122.70	29.264		
17,100.00	7,870.00	7,833.59	7,735.70	137.94	31.26	86.53	-2,213.82	3,735.94	3,682.66	3,559.74	122.92	29.960		
17,200.00	7,870.00	7,830.83	7,732.95	139.16	31.25	86.42	-2,213.90	3,735.93	3,775.07	3,651.95	123.12	30.661		
17,300.00	7,870.00	7,828.51	7,730.62	140.39	31.24	86.32	-2,213.96	3,735.93	3,867.87	3,744.55	123.32	31.365		
17,400.00	7,870.00	7,825.63	7,727.75	141.65	31.24	86.21	-2,214.03	3,735.93	3,961.01	3,837.51	123.50	32.073		
17,500.00	7,870.00	7,822.77	7,724.89	142.92	31.23	86.09	-2,214.11	3,735.92	4,054.47	3,930.80	123.67	32.785		
17,600.00	7,870.00	7,819.91	7,722.03	144.21	31.22	85.98	-2,214.18	3,735.92	4,148.24	4,024.41	123.83	33.500		
17,700.00	7,870.00	7,817.06	7,719.18	145.52	31.21	85.86	-2,214.26	3,735.91	4,242.30	4,118.32	123.98	34.218		
17,800.00	7,870.00	7,814.21	7,716.33	146.84	31.20	85.75	-2,214.33	3,735.91	4,336.61	4,212.49	124.12	34.939		
17,900.00	7,870.00	7,811.37	7,713.49	148.18	31.20	85.63	-2,214.40	3,735.91	4,431.18	4,306.92	124.26	35.662		
18,000.00	7,870.00	7,808.53	7,710.65	149.54	31.19	85.52	-2,214.48	3,735.90	4,525.97	4,401.59	124.38	36.387		
18,100.00	7,870.00	7,805.70	7,707.82	150.90	31.18	85.41	-2,214.55	3,735.90	4,620.99	4,496.48	124.50	37.115		
18,200.00	7,870.00	7,802.87	7,705.00	152.28	31.17	85.29	-2,214.63	3,735.90	4,716.20	4,591.59	124.62	37.845		
18,300.00	7,870.00	7,800.06	7,702.18	153.67	31.16	85.18	-2,214.70	3,735.90	4,811.62	4,686.89	124.73	38.577		
18,400.00	7,870.00	7,797.24	7,699.37	155.07	31.16	85.07	-2,214.77	3,735.90	4,907.21	4,782.38	124.83	39.310		
18,500.00	7,870.00	7,794.43	7,696.56	156.49	31.15	84.96	-2,214.85	3,735.90	5,002.97	4,878.04	124.93	40.046		
18,600.00	7,870.00	7,791.63	7,693.76	157.91	31.14	84.85	-2,214.92	3,735.91	5,098.90	4,973.87	125.03	40.782		
18,700.00	7,870.00	7,788.84	7,690.97	159.35	31.13	84.73	-2,214.99	3,735.91	5,194.97	5,069.85	125.12	41.521		
18,800.00	7,870.00	7,786.05	7,688.18	160.79	31.13	84.62	-2,215.06	3,735.91	5,291.19	5,165.99	125.21	42.260		
18,900.00	7,870.00	7,783.26	7,685.39	162.25	31.12	84.51	-2,215.13	3,735.92	5,387.55	5,262.26	125.29	43.001		
19,000.00	7,870.00	7,780.48	7,682.61	163.71	31.11	84.40	-2,215.21	3,735.92	5,484.04	5,358.67	125.37	43.743		
19,100.00	7,870.00	7,777.71	7,679.84	165.18	31.10	84.29	-2,215.28	3,735.93	5,580.65	5,455.20	125.45	44.486		
19,200.00	7,870.00	7,774.94	7,677.07	166.66	31.09	84.18	-2,215.35	3,735.93	5,677.37	5,551.85	125.52	45.230		

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

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 4-6-23 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 120-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,870.00	7,772.18	7,674.31	168.15	31.09	84.07	-2,215.42	3,735.94	5,774.21	5,648.61	125.60	45.975	
19,400.00	7,870.00	7,769.42	7,671.56	169.65	31.08	83.96	-2,215.49	3,735.95	5,871.15	5,745.48	125.67	46.720	
19,500.00	7,870.00	7,766.67	7,668.81	171.15	31.07	83.85	-2,215.56	3,735.95	5,968.19	5,842.45	125.73	47.467	
19,600.00	7,870.00	7,763.92	7,666.06	172.66	31.06	83.74	-2,215.63	3,735.96	6,065.32	5,939.52	125.80	48.214	
19,700.00	7,870.00	7,761.18	7,663.32	174.18	31.06	83.63	-2,215.70	3,735.97	6,162.55	6,036.68	125.86	48.962	
19,800.00	7,870.00	7,758.45	7,660.59	175.70	31.05	83.52	-2,215.77	3,735.98	6,259.86	6,133.93	125.92	49.711	
19,889.26	7,870.00	7,756.01	7,658.15	177.06	31.04	83.42	-2,215.84	3,735.99	6,346.78	6,220.80	125.98	50.380	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	124.14	-3,055.97	4,506.36	5,445.02					
100.00	100.00	49.84	49.84	0.13	0.08	124.14	-3,056.06	4,506.32	5,444.86	5,444.65	0.21	N/A		
200.00	200.00	150.86	150.86	0.49	0.36	124.15	-3,056.65	4,506.08	5,444.99	5,444.14	0.85	6,409.572		
300.00	300.00	208.25	208.25	0.85	0.56	124.15	-3,057.02	4,506.00	5,445.33	5,443.92	1.41	3,855.992		
400.00	399.98	246.71	246.70	1.21	0.70	56.01	-3,057.37	4,506.43	5,445.78	5,443.87	1.90	2,863.757		
500.00	499.84	273.00	272.98	1.56	0.79	56.02	-3,057.66	4,506.98	5,445.44	5,443.09	2.35	2,318.702		
600.00	599.45	317.50	317.45	1.93	0.95	56.07	-3,058.22	4,508.51	5,444.28	5,441.42	2.87	1,898.759		
700.00	698.70	364.00	363.88	2.32	1.11	56.14	-3,058.87	4,510.99	5,442.47	5,439.07	3.40	1,598.945		
800.00	797.47	364.00	363.88	2.72	1.11	56.19	-3,058.87	4,510.99	5,439.97	5,436.18	3.80	1,433.443		
900.00	895.62	406.83	406.59	3.16	1.27	56.29	-3,059.63	4,514.16	5,436.73	5,432.37	4.36	1,246.952		
1,000.00	993.06	455.00	454.51	3.63	1.45	56.44	-3,060.78	4,518.85	5,433.17	5,428.20	4.97	1,093.629		
1,100.00	1,089.64	455.00	454.51	4.14	1.45	56.51	-3,060.78	4,518.85	5,428.72	5,423.28	5.44	998.807		
1,200.00	1,185.27	779.64	775.80	4.70	2.72	57.21	-3,054.88	4,554.79	5,418.88	5,411.74	7.14	758.683		
1,300.00	1,279.82	824.00	819.44	5.31	2.88	57.48	-3,054.63	4,562.52	5,411.05	5,403.20	7.85	689.239		
1,400.00	1,373.17	824.00	819.44	5.97	2.88	57.67	-3,054.63	4,562.52	5,399.76	5,391.32	8.44	639.816		
1,500.00	1,465.21	824.00	819.44	6.69	2.88	57.86	-3,054.63	4,562.52	5,388.44	5,379.37	9.08	593.722		
1,600.00	1,555.84	824.00	819.44	7.47	2.88	58.06	-3,054.63	4,562.52	5,377.11	5,367.35	9.76	550.784		
1,700.00	1,644.94	824.00	819.44	8.31	2.88	58.25	-3,054.63	4,562.52	5,365.78	5,355.28	10.50	510.857		
1,800.00	1,732.39	824.00	819.44	9.23	2.88	58.45	-3,054.63	4,562.52	5,354.47	5,343.17	11.30	473.805		
1,900.00	1,818.11	824.00	819.44	10.21	2.88	58.64	-3,054.63	4,562.52	5,343.18	5,331.02	12.16	439.494		
2,000.00	1,901.97	824.00	819.44	11.26	2.88	58.83	-3,054.63	4,562.52	5,331.94	5,318.86	13.08	407.786		
2,100.00	1,983.88	824.00	819.44	12.38	2.88	59.03	-3,054.63	4,562.52	5,320.75	5,306.70	14.06	378.539		
2,200.00	2,063.74	865.34	859.62	13.57	3.09	59.42	-3,056.88	4,571.96	5,309.22	5,293.94	15.27	347.659		
2,300.00	2,141.45	919.00	911.53	14.84	3.35	59.90	-3,059.67	4,585.27	5,297.31	5,280.70	16.62	318.821		
2,327.78	2,162.65	919.00	911.53	15.21	3.35	59.96	-3,059.67	4,585.27	5,293.83	5,276.90	16.94	312.586		
2,400.00	2,217.51	919.00	911.53	16.17	3.35	59.96	-3,059.67	4,585.27	5,285.28	5,267.50	17.78	297.270		
2,500.00	2,293.49	956.21	947.34	17.51	3.55	60.15	-3,061.69	4,595.18	5,274.61	5,255.47	19.14	275.626		
2,600.00	2,369.47	982.69	972.72	18.86	3.69	60.28	-3,063.29	4,602.56	5,265.41	5,244.95	20.46	257.395		
2,700.00	2,445.45	1,013.00	1,001.65	20.22	3.85	60.44	-3,065.29	4,611.36	5,257.65	5,235.85	21.80	241.133		
2,800.00	2,521.42	1,013.00	1,001.65	21.59	3.85	60.44	-3,065.29	4,611.36	5,251.50	5,228.48	23.02	228.168		
2,900.00	2,597.40	1,060.41	1,046.68	22.97	4.14	60.67	-3,068.93	4,625.75	5,246.50	5,222.03	24.47	214.369		
3,000.00	2,673.38	1,107.00	1,090.64	24.34	4.42	60.91	-3,073.23	4,640.57	5,243.28	5,217.34	25.94	202.133		
3,100.00	2,749.36	1,107.00	1,090.64	25.73	4.42	60.91	-3,073.23	4,640.57	5,241.25	5,214.09	27.16	192.964		
3,200.00	2,825.33	1,163.53	1,143.65	27.11	4.79	61.19	-3,078.76	4,659.41	5,240.56	5,211.86	28.70	182.569		
3,212.21	2,834.61	1,169.46	1,149.20	27.28	4.83	61.22	-3,079.33	4,661.43	5,240.55	5,211.66	28.89	181.410		
3,300.00	2,901.31	1,214.00	1,190.73	28.50	5.12	61.44	-3,083.49	4,676.97	5,240.97	5,210.75	30.22	173.435		
3,400.00	2,977.29	1,283.80	1,255.67	29.90	5.61	61.77	-3,090.11	4,701.67	5,242.25	5,210.39	31.87	164.511		
3,500.00	3,053.27	1,376.87	1,342.23	31.29	6.27	62.22	-3,099.18	4,734.64	5,244.10	5,210.43	33.67	155.730		
3,600.00	3,129.24	1,475.04	1,433.42	32.69	6.99	62.69	-3,107.92	4,769.95	5,246.14	5,210.60	35.54	147.615		
3,700.00	3,205.22	1,539.81	1,493.48	34.08	7.47	62.99	-3,113.43	4,793.56	5,248.63	5,211.42	37.21	141.064		
3,800.00	3,281.20	1,597.42	1,546.76	35.48	7.91	63.26	-3,118.56	4,814.86	5,252.05	5,213.21	38.84	135.233		
3,900.00	3,357.18	1,681.11	1,624.05	36.88	8.56	63.65	-3,126.15	4,846.04	5,256.14	5,215.48	40.66	129.278		
4,000.00	3,433.15	1,816.90	1,749.72	38.29	9.60	64.27	-3,137.73	4,896.15	5,259.81	5,216.95	42.86	122.725		
4,100.00	3,509.13	1,874.00	1,802.53	39.69	10.04	64.54	-3,142.71	4,917.28	5,264.16	5,219.64	44.52	118.241		
4,200.00	3,585.11	4,200.00	1,945.77	41.09	27.74	65.26	-3,156.71	4,973.50	5,268.76	5,209.94	58.82	89.571		
4,300.00	3,661.08	2,158.00	2,066.63	42.50	12.20	65.87	-3,167.52	5,018.68	5,271.97	5,222.89	49.08	107.420		
4,400.00	3,737.06	2,210.86	2,115.86	43.90	12.61	66.12	-3,171.76	5,037.45	5,276.03	5,225.29	50.74	103.972		
4,500.00	3,813.04	2,252.00	2,153.97	45.31	12.93	66.31	-3,175.21	5,052.57	5,281.36	5,229.03	52.32	100.935		
4,600.00	3,889.02	2,379.06	2,271.71	46.71	13.92	66.89	-3,185.91	5,099.11	5,286.93	5,232.37	54.56	96.901		
4,700.00	3,964.99	2,463.40	2,349.86	48.12	14.58	67.28	-3,192.96	5,130.02	5,292.85	5,236.37	56.48	93.708		
4,800.00	4,040.97	2,560.72	2,440.27	49.53	15.33	67.73	-3,201.12	5,165.13	5,298.76	5,240.25	58.51	90.555		
4,900.00	4,116.95	2,606.17	2,482.37	50.94	15.69	67.94	-3,205.07	5,181.78	5,305.59	5,245.44	60.15	88.204		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,192.93	2,661.10	2,533.05	52.35	16.13	68.18	-3,210.00	5,202.39	5,313.47	5,251.61	61.87	85.887		
5,100.00	4,268.90	2,727.18	2,593.83	53.76	16.67	68.48	-3,215.96	5,227.63	5,322.16	5,258.48	63.68	83.583		
5,200.00	4,344.88	2,811.75	2,671.51	55.16	17.36	68.85	-3,223.67	5,260.18	5,331.42	5,265.77	65.65	81.212		
5,300.00	4,420.86	2,941.28	2,790.77	56.57	18.42	69.43	-3,235.33	5,309.34	5,340.52	5,272.52	68.00	78.533		
5,400.00	4,496.84	3,007.17	2,851.50	57.98	18.95	69.73	-3,241.42	5,334.17	5,350.02	5,280.19	69.83	76.615		
5,500.00	4,572.81	3,084.20	2,922.37	59.39	19.58	70.07	-3,248.66	5,363.46	5,360.15	5,288.40	71.76	74.698		
5,600.00	4,648.79	3,146.35	2,979.40	60.81	20.10	70.34	-3,254.47	5,387.47	5,370.93	5,297.37	73.56	73.011		
5,700.00	4,724.77	3,291.00	3,111.75	62.22	21.31	70.96	-3,267.54	5,444.35	5,382.37	5,306.25	76.11	70.715		
5,800.00	4,800.74	3,356.61	3,171.97	63.63	21.85	71.24	-3,273.18	5,469.79	5,393.26	5,315.29	77.96	69.176		
5,900.00	4,876.72	3,459.08	3,266.15	65.04	22.70	71.69	-3,282.86	5,508.98	5,404.80	5,324.65	80.14	67.439		
6,000.00	4,952.70	3,570.14	3,368.51	66.45	23.60	72.18	-3,293.15	5,550.82	5,416.16	5,333.76	82.41	65.726		
6,100.00	5,028.68	3,608.64	3,403.87	67.86	23.93	72.35	-3,296.62	5,565.64	5,428.12	5,344.10	84.02	64.605		
6,200.00	5,104.65	3,668.00	3,458.03	69.27	24.43	72.60	-3,302.37	5,589.25	5,441.40	5,355.58	85.82	63.403		
6,300.00	5,180.63	3,815.31	3,592.85	70.69	25.67	73.22	-3,315.98	5,647.03	5,454.54	5,366.08	88.46	61.659		
6,400.00	5,256.61	3,900.38	3,671.20	72.10	26.36	73.59	-3,324.29	5,679.10	5,467.50	5,376.99	90.51	60.409		
6,500.00	5,332.59	4,016.37	3,778.21	73.51	27.31	74.09	-3,335.67	5,722.37	5,480.63	5,387.78	92.85	59.029		
6,600.00	5,408.56	4,131.68	3,884.54	74.92	28.24	74.59	-3,346.01	5,765.75	5,493.53	5,398.34	95.19	57.714		
6,700.00	5,484.54	4,257.85	4,001.25	76.34	29.25	75.13	-3,356.81	5,812.47	5,506.05	5,408.42	97.63	56.398		
6,800.00	5,560.52	4,312.79	4,052.08	77.75	29.69	75.37	-3,361.66	5,832.75	5,519.08	5,419.68	99.41	55.521		
6,900.00	5,636.50	4,381.96	4,115.99	79.16	30.25	75.66	-3,368.14	5,858.40	5,532.92	5,431.60	101.32	54.610		
7,000.00	5,712.47	4,464.47	4,192.03	80.57	30.92	76.01	-3,375.78	5,889.52	5,547.28	5,443.92	103.36	53.668		
7,100.00	5,788.45	4,538.04	4,259.48	81.99	31.54	76.31	-3,382.08	5,918.19	5,562.01	5,456.69	105.33	52.807		
7,200.00	5,864.43	4,612.19	4,326.16	83.40	32.19	76.59	-3,388.37	5,947.21	5,576.65	5,469.73	107.32	51.985		
7,300.00	5,940.40	4,685.93	4,392.90	84.81	32.87	76.87	-3,394.66	5,976.23	5,591.17	5,482.81	109.32	51.174		
7,400.00	6,016.38	4,759.72	4,459.68	86.23	33.56	77.15	-3,400.95	6,005.25	5,605.63	5,495.89	111.32	50.366		
7,500.00	6,092.36	4,833.51	4,527.43	87.64	34.25	77.43	-3,407.24	6,034.27	5,620.11	5,510.11	113.32	49.558		
7,600.00	6,168.34	4,907.30	4,595.18	89.05	34.94	77.71	-3,413.53	6,063.29	5,634.33	5,524.33	115.32	48.750		
7,700.00	6,244.31	4,981.09	4,662.93	90.46	35.63	78.00	-3,419.82	6,092.31	5,648.49	5,538.55	117.32	47.942		
7,800.00	6,320.29	5,054.88	4,730.68	91.87	36.32	78.28	-3,426.11	6,121.33	5,662.61	5,552.77	119.32	47.134		
7,900.00	6,396.27	5,128.67	4,798.43	93.28	37.01	78.56	-3,432.40	6,150.35	5,676.67	5,566.99	121.32	46.326		
8,000.00	6,472.25	5,202.46	4,866.18	94.69	37.70	78.84	-3,438.69	6,179.37	5,690.71	5,581.21	123.32	45.518		
8,100.00	6,548.22	5,276.25	4,933.93	96.10	38.39	79.12	-3,444.98	6,208.39	5,704.73	5,595.43	125.32	44.710		
8,200.00	6,624.20	5,350.04	5,001.68	97.51	39.08	79.40	-3,451.27	6,237.41	5,718.75	5,609.65	127.32	43.902		
8,300.00	6,700.18	5,423.83	5,069.43	98.92	39.77	79.68	-3,457.56	6,266.43	5,732.77	5,623.87	129.32	43.094		
8,400.00	6,776.16	5,497.62	5,137.18	100.33	40.46	79.96	-3,463.85	6,295.45	5,746.79	5,638.09	131.32	42.286		
8,500.00	6,852.13	5,571.41	5,204.93	101.74	41.15	80.24	-3,470.14	6,324.47	5,760.81	5,652.31	133.32	41.478		
8,600.00	6,928.11	5,645.20	5,272.68	103.15	41.84	80.52	-3,476.43	6,353.49	5,774.83	5,666.53	135.32	40.670		
8,700.00	7,004.09	5,718.99	5,340.43	104.56	42.53	80.80	-3,482.72	6,382.51	5,788.85	5,680.75	137.32	39.862		
8,800.00	7,080.06	5,792.78	5,408.18	105.97	43.22	81.08	-3,489.01	6,411.53	5,802.87	5,694.97	139.32	39.054		
8,900.00	7,156.04	5,866.57	5,475.93	107.38	43.91	81.36	-3,495.30	6,440.55	5,816.89	5,709.19	141.32	38.246		
9,000.00	7,232.02	5,940.36	5,543.68	108.79	44.60	81.64	-3,501.59	6,469.57	5,830.91	5,723.41	143.32	37.438		
9,100.00	7,308.00	6,014.15	5,611.43	110.20	45.29	81.92	-3,507.88	6,498.59	5,844.93	5,737.63	145.32	36.630		
9,200.00	7,384.00	6,087.94	5,679.18	111.61	45.98	82.20	-3,514.17	6,527.61	5,858.95	5,751.85	147.32	35.822		
9,300.00	7,460.00	6,161.73	5,746.93	113.02	46.67	82.48	-3,520.46	6,556.63	5,872.97	5,766.07	149.32	35.014		
9,400.00	7,536.00	6,235.52	5,814.68	114.43	47.36	82.76	-3,526.75	6,585.65	5,887.00	5,780.29	151.32	34.206		
9,500.00	7,612.00	6,309.31	5,882.43	115.84	48.05	83.04	-3,533.04	6,614.67	5,901.02	5,794.51	153.32	33.398		
9,600.00	7,688.00	6,383.10	5,950.18	117.25	48.74	83.32	-3,539.33	6,643.69	5,915.04	5,808.73	155.32	32.590		
9,700.00	7,764.00	6,456.89	6,017.93	118.66	49.43	83.60	-3,545.62	6,672.71	5,929.06	5,822.95	157.32	31.782		
9,800.00	7,840.00	6,530.68	6,085.68	120.07	50.12	83.88	-3,551.91	6,701.73	5,943.08	5,837.17	159.32	30.974		
9,900.00	7,916.00	6,604.47	6,153.43	121.48	50.81	84.16	-3,558.20	6,730.75	5,957.10	5,851.39	161.32	30.166		
10,000.00	7,992.00	6,678.26	6,221.18	122.89	51.50	84.44	-3,564.49	6,759.77	5,971.12	5,865.61	163.32	29.358		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,600.00	7,681.18	7,918.00	7,593.74	115.63	42.87	39.47	-3,437.79	6,229.82	5,382.23	5,226.85	155.37	34.641		
9,650.00	7,712.08	7,940.21	7,615.94	115.88	42.93	35.24	-3,437.93	6,230.17	5,347.05	5,191.30	155.75	34.331		
9,700.00	7,740.76	7,967.08	7,642.81	116.08	43.00	31.14	-3,438.09	6,230.65	5,309.08	5,153.00	156.08	34.015		
9,750.00	7,767.01	8,164.59	7,840.21	116.23	43.49	28.23	-3,435.55	6,235.93	5,268.04	5,111.26	156.78	33.601		
9,800.00	7,790.63	8,189.85	7,865.45	116.33	43.55	23.67	-3,434.84	6,236.51	5,224.50	5,067.49	157.01	33.275		
9,850.00	7,811.44	8,211.79	7,887.38	116.38	43.60	18.17	-3,434.22	6,236.95	5,179.10	5,021.92	157.18	32.951		
9,900.00	7,829.28	8,230.29	7,905.87	116.38	43.65	10.79	-3,433.71	6,237.26	5,132.18	4,974.89	157.29	32.629		
9,950.00	7,844.01	8,245.23	7,920.80	116.35	43.68	-0.33	-3,433.29	6,237.49	5,084.10	4,926.75	157.35	32.312		
10,000.00	7,855.52	8,256.54	7,932.11	116.28	43.71	-18.79	-3,432.98	6,237.63	5,035.22	4,877.86	157.35	31.999		
10,050.00	7,863.72	8,264.15	7,939.71	116.18	43.73	-47.53	-3,432.78	6,237.72	4,985.92	4,828.60	157.31	31.694		
10,100.00	7,868.56	8,268.01	7,943.57	116.06	43.74	-77.61	-3,432.67	6,237.77	4,936.58	4,779.35	157.23	31.397		
10,145.94	7,870.00	8,268.22	7,943.79	115.92	43.74	-96.25	-3,432.66	6,237.77	4,891.55	4,734.43	157.11	31.134		
10,200.00	7,870.00	8,266.60	7,942.17	115.76	43.73	-96.17	-3,432.71	6,237.75	4,838.86	4,681.90	156.96	30.829		
10,300.00	7,870.00	8,263.60	7,939.16	115.46	43.73	-96.01	-3,432.79	6,237.72	4,741.49	4,584.83	156.66	30.266		
10,400.00	7,870.00	8,260.58	7,936.15	115.18	43.72	-95.85	-3,432.87	6,237.68	4,644.22	4,487.87	156.35	29.704		
10,500.00	7,870.00	8,257.56	7,933.13	114.91	43.71	-95.70	-3,432.96	6,237.65	4,547.08	4,391.05	156.03	29.143		
10,600.00	7,870.00	8,254.53	7,930.10	114.65	43.70	-95.54	-3,433.04	6,237.61	4,450.05	4,294.37	155.69	28.583		
10,700.00	7,870.00	8,251.50	7,927.07	114.41	43.70	-95.38	-3,433.12	6,237.57	4,353.16	4,197.83	155.33	28.025		
10,800.00	7,870.00	8,248.45	7,924.02	114.17	43.69	-95.22	-3,433.21	6,237.53	4,256.42	4,101.46	154.95	27.469		
10,900.00	7,870.00	8,245.40	7,920.97	113.95	43.68	-95.06	-3,433.29	6,237.49	4,159.82	4,005.26	154.56	26.914		
11,000.00	7,870.00	8,242.34	7,917.91	113.75	43.67	-94.90	-3,433.37	6,237.44	4,063.39	3,909.24	154.14	26.361		
11,100.00	7,870.00	8,239.27	7,914.85	113.55	43.67	-94.74	-3,433.46	6,237.40	3,967.13	3,813.42	153.71	25.810		
11,200.00	7,870.00	8,236.19	7,911.77	113.37	43.66	-94.58	-3,433.54	6,237.35	3,871.05	3,717.81	153.24	25.261		
11,300.00	7,870.00	8,233.11	7,908.69	113.20	43.65	-94.41	-3,433.63	6,237.31	3,775.18	3,622.43	152.75	24.714		
11,400.00	7,870.00	8,230.02	7,905.59	113.04	43.64	-94.25	-3,433.72	6,237.26	3,679.53	3,527.30	152.24	24.170		
11,500.00	7,870.00	8,226.91	7,902.49	112.89	43.64	-94.09	-3,433.80	6,237.21	3,584.11	3,432.43	151.69	23.628		
11,600.00	7,870.00	8,223.80	7,899.39	112.76	43.63	-93.93	-3,433.89	6,237.16	3,488.95	3,337.85	151.10	23.090		
11,700.00	7,870.00	8,220.69	7,896.27	112.64	43.62	-93.76	-3,433.97	6,237.11	3,394.06	3,243.58	150.48	22.554		
11,800.00	7,870.00	8,217.56	7,893.15	112.53	43.61	-93.60	-3,434.06	6,237.05	3,299.48	3,149.65	149.82	22.022		
11,900.00	7,870.00	8,214.43	7,890.01	112.44	43.61	-93.43	-3,434.15	6,237.00	3,205.21	3,056.09	149.12	21.494		
12,000.00	7,870.00	8,211.28	7,886.87	112.36	43.60	-93.27	-3,434.24	6,236.94	3,111.31	2,962.94	148.37	20.970		
12,100.00	7,870.00	8,208.13	7,883.72	112.29	43.59	-93.10	-3,434.32	6,236.88	3,017.79	2,870.22	147.56	20.451		
12,200.00	7,870.00	8,204.97	7,880.57	112.24	43.58	-92.94	-3,434.41	6,236.82	2,924.69	2,777.99	146.70	19.936		
12,300.00	7,870.00	8,201.80	7,877.40	112.20	43.58	-92.77	-3,434.50	6,236.76	2,832.07	2,686.29	145.78	19.427		
12,400.00	7,870.00	8,198.63	7,874.22	112.17	43.57	-92.60	-3,434.59	6,236.70	2,739.96	2,595.18	144.78	18.925		
12,500.00	7,870.00	8,195.44	7,871.04	112.16	43.56	-92.43	-3,434.68	6,236.63	2,648.42	2,504.71	143.71	18.429		
12,600.00	7,870.00	8,192.25	7,867.85	112.17	43.55	-92.27	-3,434.77	6,236.56	2,557.51	2,414.96	142.55	17.941		
12,700.00	7,870.00	8,189.05	7,864.65	112.19	43.55	-92.10	-3,434.86	6,236.50	2,467.30	2,326.00	141.30	17.461		
12,800.00	7,870.00	8,185.84	7,861.44	112.23	43.54	-91.93	-3,434.95	6,236.43	2,377.87	2,237.92	139.95	16.991		
12,900.00	7,870.00	8,182.62	7,858.22	112.28	43.53	-91.76	-3,435.04	6,236.36	2,289.31	2,150.83	138.48	16.532		
13,000.00	7,870.00	8,179.39	7,855.00	112.36	43.52	-91.59	-3,435.13	6,236.28	2,201.72	2,064.84	136.88	16.085		
13,100.00	7,870.00	8,176.15	7,851.76	112.45	43.51	-91.42	-3,435.23	6,236.21	2,115.23	1,980.08	135.15	15.650		
13,200.00	7,870.00	8,172.91	7,848.52	112.56	43.51	-91.24	-3,435.32	6,236.13	2,029.98	1,896.71	133.28	15.231		
13,300.00	7,870.00	8,169.65	7,845.27	112.68	43.50	-91.07	-3,435.41	6,236.06	1,946.13	1,814.90	131.24	14.829		
13,400.00	7,870.00	8,166.39	7,842.01	112.83	43.49	-90.90	-3,435.50	6,235.98	1,863.87	1,734.85	129.02	14.446		
13,500.00	7,870.00	8,163.12	7,838.74	113.00	43.48	-90.73	-3,435.60	6,235.90	1,783.42	1,656.79	126.63	14.084		
13,600.00	7,870.00	8,159.84	7,835.46	113.19	43.48	-90.55	-3,435.69	6,235.82	1,705.03	1,580.97	124.05	13.744		
13,700.00	7,870.00	8,156.55	7,832.17	113.40	43.47	-90.38	-3,435.78	6,235.73	1,629.00	1,507.70	121.30	13.430		
13,800.00	7,870.00	8,153.25	7,828.87	113.63	43.46	-90.21	-3,435.88	6,235.65	1,555.68	1,437.30	118.38	13.141		
13,900.00	7,870.00	8,149.94	7,825.57	113.89	43.45	-90.03	-3,435.97	6,235.56	1,485.47	1,370.13	115.35	12.878		
14,000.00	7,870.00	8,146.62	7,822.26	114.18	43.44	-89.85	-3,436.07	6,235.47	1,418.84	1,306.58	112.26	12.639		
14,100.00	7,870.00	8,143.30	7,818.93	114.48	43.44	-89.68	-3,436.16	6,235.38	1,356.30	1,247.07	109.24	12.416		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
14,200.00	7,870.00	8,139.96	7,815.60	114.82	43.43	-89.50	-3,436.26	6,235.29	1,298.45	1,192.01	106.44	12.199	
14,300.00	7,870.00	8,136.62	7,812.26	115.18	43.42	-89.33	-3,436.35	6,235.19	1,245.95	1,141.85	104.10	11.969	
14,400.00	7,870.00	8,133.26	7,808.91	115.57	43.41	-89.15	-3,436.45	6,235.10	1,199.49	1,096.99	102.51	11.702	
14,500.00	7,870.00	8,129.90	7,805.55	115.99	43.40	-88.97	-3,436.55	6,235.00	1,159.81	1,057.85	101.96	11.376	
14,600.00	7,870.00	8,126.53	7,802.18	116.44	43.39	-88.79	-3,436.65	6,234.90	1,127.61	1,024.89	102.72	10.977	
14,700.00	7,870.00	8,123.15	7,798.80	116.92	43.39	-88.61	-3,436.74	6,234.80	1,103.56	998.59	104.97	10.514	
14,800.00	7,870.00	8,119.76	7,795.41	117.44	43.38	-88.43	-3,436.84	6,234.70	1,088.19	979.53	108.66	10.015	
14,900.00	7,870.00	8,116.36	7,792.02	117.98	43.37	-88.25	-3,436.94	6,234.59	1,081.87	968.26	113.61	9.523	
14,918.60	7,870.00	8,115.73	7,791.39	118.08	43.37	-88.22	-3,436.96	6,234.57	1,081.71	967.07	114.64	9.436 CC	
15,000.00	7,870.00	8,112.95	7,788.61	118.56	43.36	-88.07	-3,437.04	6,234.48	1,084.76	965.31	119.45	9.081 ES	
15,100.00	7,870.00	8,109.53	7,785.20	119.17	43.35	-87.89	-3,437.14	6,234.38	1,096.80	971.01	125.79	8.719	
15,200.00	7,870.00	8,106.11	7,781.77	119.81	43.35	-87.71	-3,437.24	6,234.27	1,117.68	985.45	132.23	8.453	
15,300.00	7,870.00	8,103.71	7,779.38	120.48	43.34	-87.58	-3,437.31	6,234.19	1,146.92	1,008.49	138.42	8.286	
15,400.00	7,870.00	8,101.49	7,777.16	121.19	43.33	-87.47	-3,437.37	6,234.12	1,183.90	1,039.74	144.16	8.212 SF	
15,500.00	7,870.00	8,099.39	7,775.07	121.93	43.33	-87.35	-3,437.43	6,234.05	1,227.93	1,078.60	149.33	8.223	
15,600.00	7,870.00	8,097.41	7,773.08	122.71	43.32	-87.25	-3,437.48	6,233.99	1,278.28	1,124.42	153.85	8.308	
15,700.00	7,870.00	8,095.53	7,771.21	123.52	43.32	-87.15	-3,437.53	6,233.93	1,334.23	1,176.48	157.75	8.458	
15,800.00	7,870.00	8,093.75	7,769.43	124.36	43.31	-87.06	-3,437.57	6,233.87	1,395.11	1,234.04	161.06	8.662	
15,900.00	7,870.00	8,092.06	7,767.74	125.23	43.31	-86.97	-3,437.61	6,233.82	1,460.30	1,296.46	163.84	8.913	
16,000.00	7,870.00	8,090.46	7,766.14	126.14	43.31	-86.88	-3,437.65	6,233.77	1,529.25	1,363.09	166.16	9.203	
16,100.00	7,870.00	8,088.93	7,764.61	127.07	43.30	-86.80	-3,437.68	6,233.72	1,601.49	1,433.40	168.08	9.528	
16,200.00	7,870.00	8,087.47	7,763.15	128.04	43.30	-86.72	-3,437.72	6,233.68	1,676.57	1,506.90	169.67	9.881	
16,300.00	7,870.00	8,086.08	7,761.76	129.04	43.29	-86.65	-3,437.75	6,233.63	1,754.14	1,583.17	170.97	10.260	
16,400.00	7,870.00	8,084.75	7,760.44	130.06	43.29	-86.58	-3,437.78	6,233.59	1,833.88	1,661.84	172.04	10.660	
16,500.00	7,870.00	8,083.48	7,759.17	131.11	43.29	-86.51	-3,437.80	6,233.55	1,915.53	1,742.62	172.91	11.078	
16,600.00	7,870.00	8,082.27	7,757.96	132.19	43.28	-86.45	-3,437.83	6,233.52	1,998.84	1,825.22	173.62	11.513	
16,700.00	7,870.00	8,081.11	7,756.79	133.29	43.28	-86.39	-3,437.85	6,233.48	2,083.61	1,909.42	174.19	11.961	
16,800.00	7,870.00	8,079.99	7,755.68	134.42	43.28	-86.33	-3,437.87	6,233.45	2,169.69	1,995.03	174.66	12.423	
16,900.00	7,870.00	8,078.92	7,754.61	135.57	43.28	-86.27	-3,437.89	6,233.42	2,256.91	2,081.88	175.03	12.895	
17,000.00	7,870.00	8,077.89	7,753.58	136.75	43.27	-86.22	-3,437.91	6,233.39	2,345.15	2,169.83	175.32	13.376	
17,100.00	7,870.00	8,076.91	7,752.60	137.94	43.27	-86.16	-3,437.93	6,233.36	2,434.30	2,258.74	175.55	13.866	
17,200.00	7,870.00	8,075.96	7,751.65	139.16	43.27	-86.11	-3,437.95	6,233.33	2,524.26	2,348.53	175.73	14.364	
17,300.00	7,870.00	8,075.04	7,750.73	140.39	43.27	-86.07	-3,437.97	6,233.30	2,614.95	2,439.08	175.87	14.869	
17,400.00	7,870.00	8,074.16	7,749.85	141.65	43.26	-86.02	-3,437.98	6,233.28	2,706.30	2,530.33	175.97	15.379	
17,500.00	7,870.00	8,073.31	7,749.00	142.92	43.26	-85.97	-3,438.00	6,233.25	2,798.24	2,622.20	176.04	15.896	
17,600.00	7,870.00	8,072.49	7,748.19	144.21	43.26	-85.93	-3,438.01	6,233.23	2,890.71	2,714.62	176.08	16.417	
17,700.00	7,870.00	8,071.70	7,747.39	145.52	43.26	-85.89	-3,438.02	6,233.20	2,983.66	2,807.56	176.11	16.942	
17,800.00	7,870.00	8,070.94	7,746.63	146.84	43.26	-85.85	-3,438.04	6,233.18	3,077.06	2,900.95	176.11	17.472	
17,900.00	7,870.00	8,070.20	7,745.89	148.18	43.25	-85.81	-3,438.05	6,233.16	3,170.86	2,994.76	176.11	18.005	
18,000.00	7,870.00	8,069.49	7,745.18	149.54	43.25	-85.77	-3,438.06	6,233.14	3,265.03	3,088.95	176.09	18.542	
18,100.00	7,870.00	8,068.80	7,744.49	150.90	43.25	-85.74	-3,438.07	6,233.12	3,359.54	3,183.48	176.06	19.082	
18,200.00	7,870.00	8,068.13	7,743.82	152.28	43.25	-85.70	-3,438.08	6,233.10	3,454.35	3,278.33	176.02	19.625	
18,300.00	7,870.00	8,067.48	7,743.18	153.67	43.25	-85.67	-3,438.09	6,233.08	3,549.45	3,373.47	175.98	20.170	
18,400.00	7,870.00	8,066.85	7,742.55	155.07	43.25	-85.63	-3,438.10	6,233.06	3,644.81	3,468.88	175.93	20.717	
18,500.00	7,870.00	8,066.25	7,741.94	156.49	43.24	-85.60	-3,438.11	6,233.04	3,740.42	3,564.54	175.88	21.267	
18,600.00	7,870.00	8,065.66	7,741.35	157.91	43.24	-85.57	-3,438.12	6,233.03	3,836.24	3,660.42	175.82	21.819	
18,700.00	7,870.00	8,065.08	7,740.78	159.35	43.24	-85.54	-3,438.12	6,233.01	3,932.28	3,756.51	175.76	22.372	
18,800.00	7,870.00	8,064.53	7,740.23	160.79	43.24	-85.51	-3,438.13	6,233.00	4,028.50	3,852.80	175.70	22.928	
18,900.00	7,870.00	8,063.99	7,739.69	162.25	43.24	-85.48	-3,438.14	6,232.98	4,124.91	3,949.27	175.64	23.485	
19,000.00	7,870.00	8,063.47	7,739.16	163.71	43.24	-85.45	-3,438.15	6,232.96	4,221.48	4,045.90	175.58	24.043	
19,100.00	7,870.00	8,062.96	7,738.65	165.18	43.24	-85.43	-3,438.15	6,232.95	4,318.21	4,142.69	175.52	24.603	
19,200.00	7,870.00	8,062.46	7,738.16	166.66	43.23	-85.40	-3,438.16	6,232.94	4,415.09	4,239.63	175.46	25.163	

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

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 91-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,870.00	8,061.98	7,737.68	168.15	43.23	-85.38	-3,438.17	6,232.92	4,512.10	4,336.71	175.39	25.726	
19,400.00	7,870.00	8,061.51	7,737.21	169.65	43.23	-85.35	-3,438.17	6,232.91	4,609.24	4,433.91	175.33	26.289	
19,500.00	7,870.00	8,061.05	7,736.75	171.15	43.23	-85.33	-3,438.18	6,232.90	4,706.50	4,531.23	175.27	26.853	
19,600.00	7,870.00	8,060.61	7,736.31	172.66	43.23	-85.30	-3,438.18	6,232.88	4,803.87	4,628.66	175.21	27.418	
19,700.00	7,870.00	8,060.18	7,735.87	174.18	43.23	-85.28	-3,438.19	6,232.87	4,901.34	4,726.20	175.15	27.984	
19,800.00	7,870.00	8,059.75	7,735.45	175.70	43.23	-85.26	-3,438.19	6,232.86	4,998.92	4,823.83	175.09	28.551	
19,889.26	7,870.00	8,059.39	7,735.08	177.06	43.23	-85.24	-3,438.20	6,232.85	5,086.09	4,911.05	175.04	29.057	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	81.83	772.15	5,375.04	5,430.93					
100.00	100.00	12.00	12.00	0.13	0.09	81.83	772.15	5,375.04	5,430.22	5,429.99	0.23	N/A		
200.00	200.00	112.00	112.00	0.49	0.99	81.83	772.15	5,375.04	5,430.22	5,428.74	1.48	3,671.523		
300.00	300.00	212.00	212.00	0.85	2.73	81.83	772.15	5,375.04	5,430.22	5,426.64	3.58	1,515.631		
400.00	399.98	311.98	311.98	1.21	4.48	13.69	772.15	5,375.04	5,428.53	5,422.84	5.68	955.336		
500.00	499.84	411.84	411.84	1.56	6.22	13.73	772.15	5,375.04	5,423.44	5,415.66	7.78	696.893		
600.00	599.45	511.45	511.45	1.93	7.96	13.79	772.15	5,375.04	5,414.97	5,405.09	9.88	547.951		
700.00	698.70	610.70	610.70	2.32	9.69	13.88	772.15	5,375.04	5,403.14	5,391.16	11.98	451.042		
800.00	797.47	709.47	709.47	2.72	11.41	13.99	772.15	5,375.04	5,387.94	5,373.87	14.07	382.900		
900.00	895.62	807.62	807.62	3.16	13.13	14.13	772.15	5,375.04	5,369.41	5,353.26	16.16	332.322		
1,000.00	993.06	905.06	905.06	3.63	14.83	14.30	772.15	5,375.04	5,347.58	5,329.34	18.24	293.253		
1,100.00	1,089.64	1,001.64	1,001.64	4.14	16.51	14.50	772.15	5,375.04	5,322.46	5,302.15	20.30	262.132		
1,200.00	1,185.27	1,102.73	1,097.27	4.70	18.28	14.73	772.15	5,375.04	5,294.09	5,271.63	22.46	235.727		
1,300.00	1,279.82	1,208.18	1,191.82	5.31	20.12	14.99	772.15	5,375.04	5,262.51	5,237.82	24.70	213.092		
1,400.00	1,373.17	1,285.17	1,285.17	5.97	21.46	15.29	772.15	5,375.04	5,227.77	5,201.32	26.44	197.690		
1,500.00	1,465.21	1,377.21	1,377.21	6.69	23.07	15.62	772.15	5,375.04	5,189.90	5,161.44	28.46	182.332		
1,600.00	1,555.84	1,467.84	1,467.84	7.47	24.65	15.99	772.15	5,375.04	5,148.97	5,118.50	30.47	168.996		
1,700.00	1,644.94	1,556.94	1,556.94	8.31	26.21	16.40	772.15	5,375.04	5,105.02	5,072.56	32.46	157.295		
1,800.00	1,732.39	1,644.39	1,644.39	9.23	27.73	16.86	772.15	5,375.04	5,058.11	5,023.69	34.42	146.936		
1,900.00	1,818.11	1,730.11	1,730.11	10.21	29.23	17.37	772.15	5,375.04	5,008.32	4,971.94	36.37	137.693		
2,000.00	1,901.97	1,813.97	1,813.97	11.26	30.69	17.93	772.15	5,375.04	4,955.70	4,917.39	38.30	129.386		
2,100.00	1,983.88	1,904.12	1,895.88	12.38	32.26	18.56	772.15	5,375.04	4,900.32	4,859.97	40.35	121.439		
2,200.00	2,063.74	1,975.74	1,975.74	13.57	33.51	19.24	772.15	5,375.04	4,842.27	4,800.18	42.09	115.040		
2,300.00	2,141.45	2,053.45	2,053.45	14.84	34.87	20.00	772.15	5,375.04	4,781.63	4,737.67	43.95	108.791		
2,327.78	2,162.65	2,074.65	2,074.65	15.21	35.24	20.22	772.15	5,375.04	4,764.33	4,719.86	44.47	107.140		
2,400.00	2,217.51	2,129.51	2,129.51	16.17	36.20	20.42	772.15	5,375.04	4,719.13	4,673.33	45.80	103.047		
2,500.00	2,293.49	2,205.49	2,205.49	17.51	37.52	20.69	772.15	5,375.04	4,656.60	4,608.95	47.65	97.734		
2,600.00	2,369.47	2,281.47	2,281.47	18.86	38.85	20.97	772.15	5,375.04	4,594.13	4,544.63	49.51	92.793		
2,700.00	2,445.45	2,357.45	2,357.45	20.22	40.18	21.25	772.15	5,375.04	4,531.74	4,480.36	51.39	88.190		
2,800.00	2,521.42	2,433.42	2,433.42	21.59	41.50	21.55	772.15	5,375.04	4,469.43	4,416.15	53.28	83.892		
2,900.00	2,597.40	2,509.40	2,509.40	22.97	42.83	21.85	772.15	5,375.04	4,407.19	4,352.01	55.18	79.871		
3,000.00	2,673.38	2,585.38	2,585.38	24.34	44.15	22.16	772.15	5,375.04	4,345.04	4,287.94	57.09	76.102		
3,100.00	2,749.36	2,661.36	2,661.36	25.73	45.48	22.47	772.15	5,375.04	4,282.96	4,223.94	59.02	72.564		
3,200.00	2,825.33	2,737.33	2,737.33	27.11	46.81	22.80	772.15	5,375.04	4,220.98	4,160.02	60.96	69.237		
3,300.00	2,901.31	2,813.31	2,813.31	28.50	48.13	23.14	772.15	5,375.04	4,159.09	4,096.17	62.92	66.103		
3,400.00	2,977.29	2,889.29	2,889.29	29.90	49.46	23.48	772.15	5,375.04	4,097.30	4,032.41	64.89	63.146		
3,500.00	3,053.27	2,965.27	2,965.27	31.29	50.78	23.84	772.15	5,375.04	4,035.61	3,968.74	66.87	60.353		
3,600.00	3,129.24	3,041.24	3,041.24	32.69	52.11	24.20	772.15	5,375.04	3,974.02	3,905.16	68.86	57.710		
3,700.00	3,205.22	3,117.22	3,117.22	34.08	53.44	24.58	772.15	5,375.04	3,912.55	3,841.68	70.87	55.206		
3,800.00	3,281.20	3,206.80	3,193.20	35.48	55.00	24.96	772.15	5,375.04	3,851.19	3,778.06	73.13	52.659		
3,900.00	3,357.18	3,269.18	3,269.18	36.88	56.09	25.36	772.15	5,375.04	3,789.96	3,715.02	74.94	50.575		
4,000.00	3,433.15	3,345.15	3,345.15	38.29	57.42	25.77	772.15	5,375.04	3,728.85	3,651.86	76.99	48.430		
4,100.00	3,509.13	3,421.13	3,421.13	39.69	58.74	26.20	772.15	5,375.04	3,667.88	3,588.81	79.07	46.389		
4,200.00	3,585.11	3,502.89	3,497.11	41.09	60.17	26.63	772.15	5,375.04	3,607.05	3,525.78	81.26	44.388		
4,300.00	3,661.08	3,573.08	3,573.08	42.50	61.39	27.08	772.15	5,375.04	3,546.36	3,463.09	83.27	42.588		
4,400.00	3,737.06	3,649.06	3,649.06	43.90	62.72	27.55	772.15	5,375.04	3,485.84	3,400.43	85.40	40.817		
4,500.00	3,813.04	3,725.04	3,725.04	45.31	64.05	28.02	772.15	5,375.04	3,425.47	3,337.92	87.55	39.125		
4,600.00	3,889.02	3,801.02	3,801.02	46.71	65.37	28.52	772.15	5,375.04	3,365.29	3,275.56	89.73	37.506		
4,700.00	3,964.99	3,876.99	3,876.99	48.12	66.70	29.03	772.15	5,375.04	3,305.28	3,213.36	91.92	35.958		
4,800.00	4,040.97	3,952.97	3,952.97	49.53	68.02	29.56	772.15	5,375.04	3,245.47	3,151.33	94.14	34.474		
4,900.00	4,116.95	4,028.95	4,028.95	50.94	69.35	30.10	772.15	5,375.04	3,185.86	3,089.47	96.39	33.053		
5,000.00	4,192.93	4,104.93	4,104.93	52.35	70.68	30.67	772.15	5,375.04	3,126.47	3,027.81	98.66	31.689		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,268.90	4,180.90	4,180.90	53.76	72.00	31.25	772.15	5,375.04	3,067.30	2,966.34	100.96	30.381		
5,200.00	4,344.88	4,256.88	4,256.88	55.16	73.33	31.85	772.15	5,375.04	3,008.38	2,905.09	103.29	29.125		
5,300.00	4,420.86	4,332.86	4,332.86	56.57	74.65	32.48	772.15	5,375.04	2,949.72	2,844.06	105.65	27.918		
5,400.00	4,496.84	4,408.84	4,408.84	57.98	75.98	33.12	772.15	5,375.04	2,891.32	2,783.27	108.05	26.759		
5,500.00	4,572.81	4,484.81	4,484.81	59.39	77.31	33.79	772.15	5,375.04	2,833.21	2,722.73	110.48	25.644		
5,600.00	4,648.79	4,560.79	4,560.79	60.81	78.63	34.49	772.15	5,375.04	2,775.41	2,662.46	112.95	24.571		
5,700.00	4,724.77	4,636.77	4,636.77	62.22	79.96	35.21	772.15	5,375.04	2,717.94	2,602.48	115.46	23.539		
5,800.00	4,800.74	4,712.74	4,712.74	63.63	81.28	35.95	772.15	5,375.04	2,660.82	2,542.80	118.01	22.546		
5,900.00	4,876.72	4,788.72	4,788.72	65.04	82.61	36.73	772.15	5,375.04	2,604.06	2,483.45	120.61	21.591		
6,000.00	4,952.70	4,864.70	4,864.70	66.45	83.94	37.53	772.15	5,375.04	2,547.70	2,424.45	123.25	20.670		
6,100.00	5,028.68	4,940.68	4,940.68	67.86	85.26	38.36	772.15	5,375.04	2,491.76	2,365.81	125.95	19.784		
6,200.00	5,104.65	5,016.65	5,016.65	69.27	86.59	39.23	772.15	5,375.04	2,436.27	2,307.58	128.69	18.931		
6,300.00	5,180.63	5,107.37	5,092.63	70.69	88.17	40.13	772.15	5,375.04	2,381.27	2,249.52	131.75	18.074		
6,400.00	5,256.61	5,168.61	5,168.61	72.10	89.24	41.06	772.15	5,375.04	2,326.78	2,192.43	134.35	17.319		
6,500.00	5,332.59	5,244.59	5,244.59	73.51	90.57	42.03	772.15	5,375.04	2,272.84	2,135.57	137.27	16.557		
6,600.00	5,408.56	5,320.56	5,320.56	74.92	91.89	43.04	772.15	5,375.04	2,219.50	2,079.25	140.26	15.825		
6,700.00	5,484.54	5,403.46	5,396.54	76.34	93.34	44.08	772.15	5,375.04	2,166.80	2,023.37	143.43	15.107		
6,800.00	5,560.52	5,472.52	5,472.52	77.75	94.54	45.17	772.15	5,375.04	2,114.78	1,968.35	146.43	14.442		
6,900.00	5,636.50	5,548.50	5,548.50	79.16	95.87	46.30	772.15	5,375.04	2,063.50	1,913.88	149.63	13.791		
7,000.00	5,712.47	5,624.47	5,624.47	80.57	97.20	47.48	772.15	5,375.04	2,013.02	1,860.12	152.90	13.166		
7,100.00	5,788.45	5,700.45	5,700.45	81.99	98.52	48.70	772.15	5,375.04	1,963.38	1,807.14	156.25	12.566		
7,200.00	5,864.43	5,776.43	5,776.43	83.40	99.85	49.96	772.15	5,375.04	1,914.68	1,755.00	159.68	11.991		
7,300.00	5,940.40	5,852.40	5,852.40	84.81	101.18	51.28	772.15	5,375.04	1,866.96	1,703.77	163.19	11.440		
7,400.00	6,016.38	5,928.38	5,928.38	86.23	102.50	52.65	772.15	5,375.04	1,820.32	1,653.53	166.79	10.914		
7,500.00	6,092.36	6,004.36	6,004.36	87.64	103.83	54.07	772.15	5,375.04	1,774.83	1,604.36	170.47	10.411		
7,600.00	6,168.34	6,080.34	6,080.34	89.05	105.15	55.54	772.15	5,375.04	1,730.59	1,556.36	174.23	9.933		
7,700.00	6,244.31	6,156.31	6,156.31	90.47	106.48	57.06	772.15	5,375.04	1,687.70	1,509.62	178.08	9.477		
7,800.00	6,320.29	6,232.29	6,232.29	91.88	107.81	58.64	772.15	5,375.04	1,646.25	1,464.25	182.00	9.045		
7,900.00	6,396.27	6,308.27	6,308.27	93.30	109.13	60.28	772.15	5,375.04	1,606.37	1,420.38	186.00	8.637		
8,000.00	6,472.25	6,384.25	6,384.25	94.71	110.46	61.97	772.15	5,375.04	1,568.18	1,378.12	190.06	8.251		
8,100.00	6,548.22	6,460.22	6,460.22	96.12	111.78	63.71	772.15	5,375.04	1,531.79	1,337.62	194.17	7.889		
8,200.00	6,624.20	6,536.20	6,536.20	97.54	113.11	65.51	772.15	5,375.04	1,497.34	1,299.01	198.33	7.550		
8,300.00	6,700.18	6,612.18	6,612.18	98.95	114.44	67.36	772.15	5,375.04	1,464.97	1,262.46	202.51	7.234		
8,400.00	6,776.16	6,688.16	6,688.16	100.37	115.76	69.26	772.15	5,375.04	1,434.82	1,228.11	206.70	6.941		
8,500.00	6,852.13	6,764.13	6,764.13	101.78	117.09	71.22	772.15	5,375.04	1,407.02	1,196.14	210.89	6.672		
8,600.00	6,928.11	6,840.11	6,840.11	103.20	118.41	73.21	772.15	5,375.04	1,381.73	1,166.70	215.03	6.426		
8,700.00	7,004.09	6,916.09	6,916.09	104.61	119.74	75.26	772.15	5,375.04	1,359.08	1,139.97	219.11	6.203		
8,800.00	7,080.06	7,007.94	6,992.06	106.02	121.34	77.34	772.15	5,375.04	1,339.21	1,115.83	223.38	5.995		
8,900.00	7,156.04	7,068.04	7,068.04	107.44	122.39	79.45	772.15	5,375.04	1,322.24	1,095.27	226.97	5.826		
9,000.00	7,232.02	7,144.02	7,144.02	108.85	123.72	81.59	772.15	5,375.04	1,308.29	1,077.60	230.69	5.671		
9,104.68	7,311.55	7,223.55	7,223.55	110.33	125.11	83.86	772.15	5,375.04	1,297.01	1,062.62	234.39	5.534		
9,150.00	7,346.29	7,258.29	7,258.29	110.97	125.71	79.40	772.15	5,375.04	1,291.57	1,055.65	235.91	5.475		
9,200.00	7,385.15	7,302.85	7,297.15	111.65	126.49	74.03	772.15	5,375.04	1,282.46	1,044.84	237.62	5.397		
9,250.00	7,424.29	7,336.29	7,336.29	112.31	127.07	68.35	772.15	5,375.04	1,270.06	1,031.02	239.04	5.313		
9,300.00	7,463.40	7,375.40	7,375.40	112.93	127.76	62.56	772.15	5,375.04	1,254.37	1,013.89	240.48	5.216		
9,350.00	7,502.19	7,414.19	7,414.19	113.51	128.43	56.83	772.15	5,375.04	1,235.39	993.56	241.83	5.108		
9,400.00	7,540.36	7,452.36	7,452.36	114.04	129.10	51.33	772.15	5,375.04	1,213.16	970.07	243.09	4.991		
9,450.00	7,577.62	7,489.62	7,489.62	114.53	129.75	46.14	772.15	5,375.04	1,187.75	943.50	244.26	4.863		
9,500.00	7,613.70	7,525.70	7,525.70	114.95	130.38	41.28	772.15	5,375.04	1,159.26	913.93	245.33	4.725		
9,550.00	7,648.30	7,560.30	7,560.30	115.32	130.98	36.74	772.15	5,375.04	1,127.79	881.48	246.30	4.579		
9,600.00	7,681.18	7,606.82	7,593.18	115.63	131.80	32.44	772.15	5,375.04	1,093.49	846.07	247.42	4.420		
9,650.00	7,712.08	7,624.08	7,624.08	115.88	132.10	28.25	772.15	5,375.04	1,056.54	808.57	247.97	4.261		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,700.00	7,740.76	7,652.76	7,652.76	116.08	132.60	23.98	772.15	5,375.04	1,017.14	768.48	248.66	4.090		
9,750.00	7,767.01	7,679.01	7,679.01	116.23	133.06	19.37	772.15	5,375.04	975.50	726.24	249.26	3.914		
9,800.00	7,790.63	7,702.63	7,702.63	116.33	133.47	14.00	772.15	5,375.04	931.89	682.12	249.77	3.731		
9,850.00	7,811.44	7,723.44	7,723.44	116.38	133.83	7.19	772.15	5,375.04	886.58	636.40	250.19	3.544		
9,900.00	7,829.28	7,741.28	7,741.28	116.38	134.14	-2.19	772.15	5,375.04	839.90	589.38	250.51	3.353		
9,950.00	7,844.01	7,756.01	7,756.01	116.35	134.40	-15.85	772.15	5,375.04	792.18	541.43	250.75	3.159		
10,000.00	7,855.52	7,767.52	7,767.52	116.28	134.60	-35.22	772.15	5,375.04	743.81	492.94	250.88	2.965		
10,050.00	7,863.72	7,775.72	7,775.72	116.18	134.74	-58.00	772.15	5,375.04	695.24	444.35	250.89	2.771		
10,100.00	7,868.56	7,780.56	7,780.56	116.06	134.83	-77.62	772.15	5,375.04	646.94	396.18	250.76	2.580		
10,145.94	7,870.00	7,782.00	7,782.00	115.92	134.85	-90.00	772.15	5,375.04	603.29	352.82	250.47	2.409		
10,200.00	7,870.00	7,782.00	7,782.00	115.76	134.85	-90.00	772.15	5,375.04	552.84	302.92	249.92	2.212		
10,300.00	7,870.00	7,782.00	7,782.00	115.46	134.85	-90.00	772.15	5,375.04	461.68	213.55	248.14	1.861		
10,400.00	7,870.00	7,782.00	7,782.00	115.18	134.85	-90.00	772.15	5,375.04	375.06	130.71	244.35	1.535		
10,500.00	7,870.00	7,782.00	7,782.00	114.91	134.85	-90.00	772.15	5,375.04	296.97	61.07	235.89	1.259	Level 3	
10,600.00	7,870.00	7,782.00	7,782.00	114.65	134.85	-90.00	772.15	5,375.04	236.02	18.96	217.07	1.087	Level 2, ES, SF	
10,700.00	7,870.00	7,782.00	7,782.00	114.41	134.85	-90.00	772.15	5,375.04	207.91	21.42	186.49	1.115	Level 2	
10,712.41	7,870.00	7,782.00	7,782.00	114.38	134.85	-90.00	772.15	5,375.04	207.54	24.22	183.32	1.132	Level 2, CC	
10,800.00	7,870.00	7,782.00	7,782.00	114.17	134.85	-90.00	772.15	5,375.04	225.26	42.50	182.76	1.233	Level 2	
10,900.00	7,870.00	7,782.00	7,782.00	113.95	134.85	-90.00	772.15	5,375.04	279.75	75.21	204.55	1.368	Level 3	
11,000.00	7,870.00	7,782.00	7,782.00	113.75	134.85	-90.00	772.15	5,375.04	354.65	134.92	219.73	1.614		
11,100.00	7,870.00	7,782.00	7,782.00	113.55	134.85	-90.00	772.15	5,375.04	439.66	211.17	228.49	1.924		
11,200.00	7,870.00	7,782.00	7,782.00	113.37	134.85	-90.00	772.15	5,375.04	529.92	296.19	233.74	2.267		
11,300.00	7,870.00	7,782.00	7,782.00	113.20	134.85	-90.00	772.15	5,375.04	623.16	386.07	237.09	2.628		
11,400.00	7,870.00	7,782.00	7,782.00	113.04	134.85	-90.00	772.15	5,375.04	718.23	478.86	239.37	3.001		
11,500.00	7,870.00	7,782.00	7,782.00	112.89	134.85	-90.00	772.15	5,375.04	814.48	573.48	240.99	3.380		
11,600.00	7,870.00	7,782.00	7,782.00	112.76	134.85	-90.00	772.15	5,375.04	911.53	669.33	242.20	3.764		
11,700.00	7,870.00	7,782.00	7,782.00	112.64	134.85	-90.00	772.15	5,375.04	1,009.16	766.04	243.12	4.151		
11,800.00	7,870.00	7,782.00	7,782.00	112.53	134.85	-90.00	772.15	5,375.04	1,107.21	863.37	243.85	4.541		
11,900.00	7,870.00	7,782.00	7,782.00	112.44	134.85	-90.00	772.15	5,375.04	1,205.59	961.16	244.43	4.932		
12,000.00	7,870.00	7,782.00	7,782.00	112.36	134.85	-90.00	772.15	5,375.04	1,304.21	1,059.30	244.91	5.325		
12,100.00	7,870.00	7,782.00	7,782.00	112.29	134.85	-90.00	772.15	5,375.04	1,403.03	1,157.72	245.31	5.719		
12,200.00	7,870.00	7,782.00	7,782.00	112.24	134.85	-90.00	772.15	5,375.04	1,502.00	1,256.35	245.65	6.114		
12,300.00	7,870.00	7,782.00	7,782.00	112.20	134.85	-90.00	772.15	5,375.04	1,601.10	1,355.16	245.94	6.510		
12,400.00	7,870.00	7,782.00	7,782.00	112.17	134.85	-90.00	772.15	5,375.04	1,700.30	1,454.12	246.19	6.907		
12,500.00	7,870.00	7,782.00	7,782.00	112.16	134.85	-90.00	772.15	5,375.04	1,799.60	1,553.19	246.41	7.303		
12,600.00	7,870.00	7,782.00	7,782.00	112.17	134.85	-90.00	772.15	5,375.04	1,898.97	1,652.37	246.60	7.701		
12,700.00	7,870.00	7,782.00	7,782.00	112.19	134.85	-90.00	772.15	5,375.04	1,998.40	1,751.63	246.77	8.098		
12,800.00	7,870.00	7,782.00	7,782.00	112.23	134.85	-90.00	772.15	5,375.04	2,097.88	1,850.96	246.92	8.496		
12,900.00	7,870.00	7,782.00	7,782.00	112.28	134.85	-90.00	772.15	5,375.04	2,197.41	1,950.35	247.06	8.894		
13,000.00	7,870.00	7,782.00	7,782.00	112.36	134.85	-90.00	772.15	5,375.04	2,296.99	2,049.80	247.18	9.293		
13,100.00	7,870.00	7,782.00	7,782.00	112.45	134.85	-90.00	772.15	5,375.04	2,396.59	2,149.30	247.30	9.691		
13,200.00	7,870.00	7,782.00	7,782.00	112.56	134.85	-90.00	772.15	5,375.04	2,496.23	2,248.83	247.40	10.090		
13,300.00	7,870.00	7,782.00	7,782.00	112.68	134.85	-90.00	772.15	5,375.04	2,595.90	2,348.40	247.50	10.489		
13,400.00	7,870.00	7,782.00	7,782.00	112.83	134.85	-90.00	772.15	5,375.04	2,695.59	2,448.01	247.58	10.888		
13,500.00	7,870.00	7,782.00	7,782.00	113.00	134.85	-90.00	772.15	5,375.04	2,795.31	2,547.64	247.67	11.287		
13,600.00	7,870.00	7,782.00	7,782.00	113.19	134.85	-90.00	772.15	5,375.04	2,895.04	2,647.30	247.74	11.686		
13,700.00	7,870.00	7,782.00	7,782.00	113.40	134.85	-90.00	772.15	5,375.04	2,994.79	2,746.98	247.81	12.085		
13,800.00	7,870.00	7,782.00	7,782.00	113.63	134.85	-90.00	772.15	5,375.04	3,094.56	2,846.68	247.88	12.484		
13,900.00	7,870.00	7,782.00	7,782.00	113.89	134.85	-90.00	772.15	5,375.04	3,194.34	2,946.40	247.94	12.883		
14,000.00	7,870.00	7,782.00	7,782.00	114.18	134.85	-90.00	772.15	5,375.04	3,294.13	3,046.14	248.00	13.283		
14,100.00	7,870.00	7,782.00	7,782.00	114.48	134.85	-90.00	772.15	5,375.04	3,393.94	3,145.89	248.05	13.682		
14,200.00	7,870.00	7,782.00	7,782.00	114.82	134.85	-90.00	772.15	5,375.04	3,493.76	3,245.65	248.11	14.082		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,300.00	7,870.00	7,782.00	7,782.00	115.18	134.85	-90.00	772.15	5,375.04	3,593.59	3,345.43	248.16	14.481		
14,400.00	7,870.00	7,782.00	7,782.00	115.57	134.85	-90.00	772.15	5,375.04	3,693.43	3,445.22	248.21	14.881		
14,500.00	7,870.00	7,782.00	7,782.00	115.99	134.85	-90.00	772.15	5,375.04	3,793.27	3,545.02	248.25	15.280		
14,600.00	7,870.00	7,782.00	7,782.00	116.44	134.85	-90.00	772.15	5,375.04	3,893.13	3,644.83	248.29	15.679		
14,700.00	7,870.00	7,782.00	7,782.00	116.92	134.85	-90.00	772.15	5,375.04	3,992.99	3,744.65	248.34	16.079		
14,800.00	7,870.00	7,782.00	7,782.00	117.44	134.85	-90.00	772.15	5,375.04	4,092.86	3,844.48	248.38	16.478		
14,900.00	7,870.00	7,782.00	7,782.00	117.98	134.85	-90.00	772.15	5,375.04	4,192.73	3,944.32	248.41	16.878		
15,000.00	7,870.00	7,782.00	7,782.00	118.56	134.85	-90.00	772.15	5,375.04	4,292.61	4,044.16	248.45	17.277		
15,100.00	7,870.00	7,782.00	7,782.00	119.17	134.85	-90.00	772.15	5,375.04	4,392.50	4,144.01	248.49	17.677		
15,200.00	7,870.00	7,782.00	7,782.00	119.81	134.85	-90.00	772.15	5,375.04	4,492.39	4,243.86	248.52	18.076		
15,300.00	7,870.00	7,782.00	7,782.00	120.48	134.85	-90.00	772.15	5,375.04	4,592.28	4,343.73	248.56	18.476		
15,400.00	7,870.00	7,782.00	7,782.00	121.19	134.85	-90.00	772.15	5,375.04	4,692.18	4,443.59	248.59	18.875		
15,500.00	7,870.00	7,782.00	7,782.00	121.93	134.85	-90.00	772.15	5,375.04	4,792.09	4,543.46	248.62	19.274		
15,600.00	7,870.00	7,782.00	7,782.00	122.71	134.85	-90.00	772.15	5,375.04	4,892.00	4,643.34	248.65	19.674		
15,700.00	7,870.00	7,782.00	7,782.00	123.52	134.85	-90.00	772.15	5,375.04	4,991.91	4,743.22	248.69	20.073		
15,800.00	7,870.00	7,782.00	7,782.00	124.36	134.85	-90.00	772.15	5,375.04	5,091.82	4,843.11	248.72	20.472		
15,900.00	7,870.00	7,782.00	7,782.00	125.23	134.85	-90.00	772.15	5,375.04	5,191.74	4,943.00	248.75	20.872		
16,000.00	7,870.00	7,782.00	7,782.00	126.14	134.85	-90.00	772.15	5,375.04	5,291.66	5,042.89	248.77	21.271		
16,100.00	7,870.00	7,782.00	7,782.00	127.07	134.85	-90.00	772.15	5,375.04	5,391.59	5,142.78	248.80	21.670		
16,200.00	7,870.00	7,782.00	7,782.00	128.04	134.85	-90.00	772.15	5,375.04	5,491.51	5,242.68	248.83	22.069		
16,300.00	7,870.00	7,782.00	7,782.00	129.04	134.85	-90.00	772.15	5,375.04	5,591.44	5,342.58	248.86	22.468		
16,400.00	7,870.00	7,782.00	7,782.00	130.06	134.85	-90.00	772.15	5,375.04	5,691.38	5,442.49	248.89	22.867		
16,500.00	7,870.00	7,782.00	7,782.00	131.11	134.85	-90.00	772.15	5,375.04	5,791.31	5,542.40	248.91	23.266		
16,600.00	7,870.00	7,782.00	7,782.00	132.19	134.85	-90.00	772.15	5,375.04	5,891.25	5,642.31	248.94	23.665		
16,700.00	7,870.00	7,782.00	7,782.00	133.29	134.85	-90.00	772.15	5,375.04	5,991.19	5,742.22	248.97	24.064		
16,800.00	7,870.00	7,782.00	7,782.00	134.42	134.85	-90.00	772.15	5,375.04	6,091.13	5,842.14	248.99	24.463		
16,900.00	7,870.00	7,782.00	7,782.00	135.57	134.85	-90.00	772.15	5,375.04	6,191.07	5,942.05	249.02	24.862		
17,000.00	7,870.00	7,782.00	7,782.00	136.75	134.85	-90.00	772.15	5,375.04	6,291.02	6,041.97	249.04	25.261		
17,100.00	7,870.00	7,782.00	7,782.00	137.94	134.85	-90.00	772.15	5,375.04	6,390.96	6,141.89	249.07	25.659		
17,200.00	7,870.00	7,782.00	7,782.00	139.16	134.85	-90.00	772.15	5,375.04	6,490.91	6,241.81	249.09	26.058		
17,300.00	7,870.00	7,782.00	7,782.00	140.39	134.85	-90.00	772.15	5,375.04	6,590.86	6,341.74	249.12	26.457		
17,400.00	7,870.00	7,782.00	7,782.00	141.65	134.85	-90.00	772.15	5,375.04	6,690.81	6,441.67	249.14	26.855		
17,500.00	7,870.00	7,782.00	7,782.00	142.92	134.85	-90.00	772.15	5,375.04	6,790.76	6,541.59	249.17	27.254		
17,600.00	7,870.00	7,782.00	7,782.00	144.21	134.85	-90.00	772.15	5,375.04	6,890.72	6,641.52	249.19	27.652		
17,700.00	7,870.00	7,782.00	7,782.00	145.52	134.85	-90.00	772.15	5,375.04	6,990.67	6,741.45	249.22	28.050		
17,800.00	7,870.00	7,782.00	7,782.00	146.84	134.85	-90.00	772.15	5,375.04	7,090.63	6,841.38	249.24	28.449		
17,900.00	7,870.00	7,782.00	7,782.00	148.18	134.85	-90.00	772.15	5,375.04	7,190.59	6,941.32	249.27	28.847		
18,000.00	7,870.00	7,782.00	7,782.00	149.54	134.85	-90.00	772.15	5,375.04	7,290.55	7,041.25	249.29	29.245		
18,100.00	7,870.00	7,782.00	7,782.00	150.90	134.85	-90.00	772.15	5,375.04	7,390.51	7,141.19	249.32	29.643		
18,200.00	7,870.00	7,782.00	7,782.00	152.28	134.85	-90.00	772.15	5,375.04	7,490.47	7,241.12	249.34	30.041		
18,300.00	7,870.00	7,782.00	7,782.00	153.67	134.85	-90.00	772.15	5,375.04	7,590.43	7,341.06	249.37	30.439		
18,400.00	7,870.00	7,782.00	7,782.00	155.07	134.85	-90.00	772.15	5,375.04	7,690.39	7,441.00	249.39	30.837		
18,500.00	7,870.00	7,782.00	7,782.00	156.49	134.85	-90.00	772.15	5,375.04	7,790.36	7,540.94	249.42	31.234		
18,600.00	7,870.00	7,782.00	7,782.00	157.91	134.85	-90.00	772.15	5,375.04	7,890.32	7,640.88	249.44	31.632		
18,700.00	7,870.00	7,782.00	7,782.00	159.35	134.85	-90.00	772.15	5,375.04	7,990.29	7,740.82	249.46	32.030		
18,800.00	7,870.00	7,782.00	7,782.00	160.79	134.85	-90.00	772.15	5,375.04	8,090.25	7,840.76	249.49	32.427		
18,900.00	7,870.00	7,782.00	7,782.00	162.25	134.85	-90.00	772.15	5,375.04	8,190.22	7,940.71	249.51	32.825		
19,000.00	7,870.00	7,782.00	7,782.00	163.71	134.85	-90.00	772.15	5,375.04	8,290.19	8,040.65	249.54	33.222		
19,100.00	7,870.00	7,782.00	7,782.00	165.18	134.85	-90.00	772.15	5,375.04	8,390.16	8,140.60	249.56	33.619		
19,200.00	7,870.00	7,782.00	7,782.00	166.66	134.85	-90.00	772.15	5,375.04	8,490.13	8,240.54	249.59	34.017		
19,300.00	7,870.00	7,782.00	7,782.00	168.15	134.85	-90.00	772.15	5,375.04	8,590.10	8,340.49	249.61	34.414		
19,400.00	7,870.00	7,782.00	7,782.00	169.65	134.85	-90.00	772.15	5,375.04	8,690.07	8,440.43	249.64	34.811		

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

Anticollision Report

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

Offset Design		SEC 23-T1N-R68W - EXIST VERT BURY CRANDELL C UNIT 1 - OWB - Design #1										Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,500.00	7,870.00	7,782.00	7,782.00	171.15	134.85	-90.00	772.15	5,375.04	8,790.04	8,540.38	249.66	35.208	
19,600.00	7,870.00	7,782.00	7,782.00	172.66	134.85	-90.00	772.15	5,375.04	8,890.01	8,640.33	249.69	35.605	
19,700.00	7,870.00	7,782.00	7,782.00	174.18	134.85	-90.00	772.15	5,375.04	8,989.99	8,740.27	249.71	36.001	
19,800.00	7,870.00	7,782.00	7,782.00	175.70	134.85	-90.00	772.15	5,375.04	9,089.96	8,840.22	249.74	36.398	
19,889.26	7,870.00	7,782.00	7,782.00	177.06	134.85	-90.00	772.15	5,375.04	9,179.19	8,929.43	249.76	36.752	

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 23-23 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	116.18	-1,438.77	2,926.76	3,261.78					
100.00	100.00	43.00	43.00	0.13	0.33	116.18	-1,438.77	2,926.76	3,261.28	3,260.82	0.46	7,018.887		
200.00	200.00	143.00	143.00	0.49	1.52	116.18	-1,438.77	2,926.76	3,261.28	3,259.27	2.01	1,621.450		
300.00	300.00	243.00	243.00	0.85	3.26	116.18	-1,438.77	2,926.76	3,261.28	3,257.17	4.12	792.509		
400.00	399.98	342.98	342.98	1.21	5.01	48.07	-1,438.77	2,926.76	3,260.11	3,253.90	6.21	524.622		
500.00	499.84	442.84	442.84	1.56	6.75	48.19	-1,438.77	2,926.76	3,256.62	3,248.31	8.31	391.748		
600.00	599.45	542.45	542.45	1.93	8.49	48.39	-1,438.77	2,926.76	3,250.81	3,240.39	10.42	312.120		
700.00	698.70	641.70	641.70	2.32	10.22	48.68	-1,438.77	2,926.76	3,242.70	3,230.18	12.52	258.975		
800.00	797.47	740.47	740.47	2.72	11.95	49.04	-1,438.77	2,926.76	3,232.34	3,217.71	14.63	220.900		
900.00	895.62	838.62	838.62	3.16	13.66	49.49	-1,438.77	2,926.76	3,219.76	3,203.00	16.75	192.210		
1,000.00	993.06	936.06	936.06	3.63	15.36	50.02	-1,438.77	2,926.76	3,205.00	3,186.12	18.88	169.762		
1,100.00	1,089.64	1,032.64	1,032.64	4.14	17.05	50.63	-1,438.77	2,926.76	3,188.14	3,167.12	21.02	151.675		
1,200.00	1,185.27	1,128.27	1,128.27	4.70	18.71	51.33	-1,438.77	2,926.76	3,169.24	3,146.06	23.17	136.756		
1,300.00	1,279.82	1,222.82	1,222.82	5.31	20.36	52.11	-1,438.77	2,926.76	3,148.37	3,123.03	25.35	124.213		
1,400.00	1,373.17	1,316.17	1,316.17	5.97	21.99	52.98	-1,438.77	2,926.76	3,125.64	3,098.10	27.54	113.497		
1,500.00	1,465.21	1,408.21	1,408.21	6.69	23.60	53.93	-1,438.77	2,926.76	3,101.13	3,071.38	29.76	104.220		
1,600.00	1,555.84	1,501.16	1,498.84	7.47	25.22	54.97	-1,438.77	2,926.76	3,074.97	3,042.93	32.04	95.976		
1,700.00	1,644.94	1,587.94	1,587.94	8.31	26.74	56.10	-1,438.77	2,926.76	3,047.26	3,012.99	34.27	88.917		
1,800.00	1,732.39	1,675.39	1,675.39	9.23	28.26	57.31	-1,438.77	2,926.76	3,018.15	2,981.57	36.58	82.516		
1,900.00	1,818.11	1,761.11	1,761.11	10.21	29.76	58.60	-1,438.77	2,926.76	2,987.77	2,948.85	38.92	76.770		
2,000.00	1,901.97	1,844.97	1,844.97	11.26	31.22	59.97	-1,438.77	2,926.76	2,956.28	2,914.98	41.30	71.581		
2,100.00	1,983.88	1,926.88	1,926.88	12.38	32.65	61.41	-1,438.77	2,926.76	2,923.85	2,880.13	43.72	66.871		
2,200.00	2,063.74	2,006.74	2,006.74	13.57	34.05	62.92	-1,438.77	2,926.76	2,890.66	2,844.47	46.19	62.577		
2,300.00	2,141.45	2,084.45	2,084.45	14.84	35.40	64.49	-1,438.77	2,926.76	2,856.89	2,808.18	48.71	58.650		
2,327.78	2,162.65	2,105.65	2,105.65	15.21	35.77	64.94	-1,438.77	2,926.76	2,847.44	2,798.02	49.42	57.618		
2,400.00	2,217.51	2,160.51	2,160.51	16.17	36.73	65.63	-1,438.77	2,926.76	2,823.11	2,771.83	51.28	55.058		
2,500.00	2,293.49	2,236.49	2,236.49	17.51	38.06	66.61	-1,438.77	2,926.76	2,790.37	2,736.49	53.88	51.789		
2,600.00	2,369.47	2,312.47	2,312.47	18.86	39.38	67.60	-1,438.77	2,926.76	2,758.78	2,702.26	56.52	48.811		
2,700.00	2,445.45	2,388.45	2,388.45	20.22	40.71	68.60	-1,438.77	2,926.76	2,728.37	2,669.17	59.19	46.092		
2,800.00	2,521.42	2,464.42	2,464.42	21.59	42.03	69.62	-1,438.77	2,926.76	2,699.18	2,637.29	61.90	43.607		
2,900.00	2,597.40	2,540.40	2,540.40	22.97	43.36	70.65	-1,438.77	2,926.76	2,671.26	2,606.63	64.63	41.332		
3,000.00	2,673.38	2,616.38	2,616.38	24.34	44.69	71.70	-1,438.77	2,926.76	2,644.65	2,577.26	67.39	39.246		
3,100.00	2,749.36	2,707.64	2,692.36	25.73	46.28	72.76	-1,438.77	2,926.76	2,619.37	2,548.94	70.43	37.189		
3,200.00	2,825.33	2,768.33	2,768.33	27.11	47.34	73.83	-1,438.77	2,926.76	2,595.48	2,522.52	72.97	35.571		
3,300.00	2,901.31	2,844.31	2,844.31	28.50	48.67	74.91	-1,438.77	2,926.76	2,573.02	2,497.23	75.78	33.952		
3,400.00	2,977.29	2,920.29	2,920.29	29.90	49.99	76.00	-1,438.77	2,926.76	2,552.01	2,473.39	78.62	32.461		
3,500.00	3,053.27	3,003.73	2,996.27	31.29	51.45	77.11	-1,438.77	2,926.76	2,532.49	2,450.90	81.59	31.039		
3,600.00	3,129.24	3,072.24	3,072.24	32.69	52.64	78.22	-1,438.77	2,926.76	2,514.51	2,430.20	84.31	29.823		
3,700.00	3,205.22	3,148.22	3,148.22	34.08	53.97	79.35	-1,438.77	2,926.76	2,498.09	2,410.92	87.17	28.657		
3,800.00	3,281.20	3,224.20	3,224.20	35.48	55.30	80.48	-1,438.77	2,926.76	2,483.26	2,393.23	90.03	27.581		
3,900.00	3,357.18	3,300.18	3,300.18	36.88	56.62	81.62	-1,438.77	2,926.76	2,470.06	2,377.17	92.89	26.590		
4,000.00	3,433.15	3,376.15	3,376.15	38.29	57.95	82.76	-1,438.77	2,926.76	2,458.51	2,362.76	95.75	25.676		
4,100.00	3,509.13	3,452.13	3,452.13	39.69	59.27	83.91	-1,438.77	2,926.76	2,448.63	2,350.03	98.60	24.834		
4,200.00	3,585.11	3,528.11	3,528.11	41.09	60.60	85.07	-1,438.77	2,926.76	2,440.44	2,339.00	101.44	24.058		
4,300.00	3,661.08	3,604.08	3,604.08	42.50	61.93	86.23	-1,438.77	2,926.76	2,433.96	2,329.70	104.26	23.345		
4,400.00	3,737.06	3,680.06	3,680.06	43.90	63.25	87.39	-1,438.77	2,926.76	2,429.21	2,322.14	107.07	22.688		
4,500.00	3,813.04	3,756.04	3,756.04	45.31	64.58	88.56	-1,438.77	2,926.76	2,426.19	2,316.33	109.85	22.086		
4,600.00	3,889.02	3,832.02	3,832.02	46.71	65.90	89.73	-1,438.77	2,926.76	2,424.91	2,312.29	112.61	21.533		
4,623.48	3,906.86	3,849.86	3,849.86	47.05	66.22	90.00	-1,438.77	2,926.76	2,424.86	2,311.60	113.26	21.410		
4,700.00	3,964.99	3,907.99	3,907.99	48.12	67.23	90.89	-1,438.77	2,926.76	2,425.37	2,310.02	115.35	21.026		
4,800.00	4,040.97	3,983.97	3,983.97	49.53	68.56	92.06	-1,438.77	2,926.76	2,427.57	2,309.52	118.05	20.563		
4,900.00	4,116.95	4,059.95	4,059.95	50.94	69.88	93.22	-1,438.77	2,926.76	2,431.51	2,310.79	120.73	20.141		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,192.93	4,135.93	4,135.93	52.35	71.21	94.39	-1,438.77	2,926.76	2,437.18	2,313.82	123.36	19.756		
5,100.00	4,268.90	4,211.90	4,211.90	53.76	72.53	95.54	-1,438.77	2,926.76	2,444.57	2,318.61	125.96	19.407		
5,200.00	4,344.88	4,287.88	4,287.88	55.16	73.86	96.70	-1,438.77	2,926.76	2,453.66	2,325.13	128.53	19.091		
5,300.00	4,420.86	4,363.86	4,363.86	56.57	75.19	97.85	-1,438.77	2,926.76	2,464.43	2,333.38	131.05	18.806		
5,400.00	4,496.84	4,439.84	4,439.84	57.98	76.51	98.99	-1,438.77	2,926.76	2,476.86	2,343.33	133.53	18.549		
5,500.00	4,572.81	4,515.81	4,515.81	59.39	77.84	100.12	-1,438.77	2,926.76	2,490.93	2,354.96	135.97	18.320		
5,600.00	4,648.79	4,608.21	4,591.79	60.81	79.45	101.25	-1,438.77	2,926.76	2,506.60	2,367.95	138.65	18.078		
5,700.00	4,724.77	4,667.77	4,667.77	62.22	80.49	102.37	-1,438.77	2,926.76	2,523.86	2,383.14	140.72	17.935		
5,800.00	4,800.74	4,743.74	4,743.74	63.63	81.82	103.48	-1,438.77	2,926.76	2,542.65	2,399.62	143.03	17.777		
5,900.00	4,876.72	4,819.72	4,819.72	65.04	83.14	104.58	-1,438.77	2,926.76	2,562.97	2,417.66	145.30	17.639		
6,000.00	4,952.70	4,904.30	4,895.70	66.45	84.62	105.66	-1,438.77	2,926.76	2,584.75	2,437.07	147.68	17.503		
6,100.00	5,028.68	4,971.68	4,971.68	67.86	85.79	106.74	-1,438.77	2,926.76	2,607.98	2,458.27	149.71	17.420		
6,200.00	5,104.65	5,047.65	5,047.65	69.27	87.12	107.81	-1,438.77	2,926.76	2,632.61	2,480.75	151.86	17.336		
6,300.00	5,180.63	5,123.63	5,123.63	70.69	88.45	108.86	-1,438.77	2,926.76	2,658.60	2,504.63	153.97	17.268		
6,400.00	5,256.61	5,200.39	5,199.61	72.10	89.79	109.90	-1,438.77	2,926.76	2,685.91	2,529.87	156.05	17.212		
6,500.00	5,332.59	5,275.59	5,275.59	73.51	91.10	110.92	-1,438.77	2,926.76	2,714.51	2,556.44	158.06	17.174		
6,600.00	5,408.56	5,351.56	5,351.56	74.92	92.43	111.93	-1,438.77	2,926.76	2,744.35	2,584.29	160.06	17.146		
6,700.00	5,484.54	5,427.54	5,427.54	76.34	93.75	112.93	-1,438.77	2,926.76	2,775.39	2,613.37	162.02	17.130		
6,800.00	5,560.52	5,503.52	5,503.52	77.75	95.08	113.91	-1,438.77	2,926.76	2,807.59	2,643.65	163.95	17.125		
6,900.00	5,636.50	5,579.50	5,579.50	79.16	96.40	114.88	-1,438.77	2,926.76	2,840.92	2,675.08	165.84	17.130		
7,000.00	5,712.47	5,655.47	5,655.47	80.57	97.73	115.83	-1,438.77	2,926.76	2,875.33	2,707.62	167.71	17.145		
7,100.00	5,788.45	5,731.45	5,731.45	81.99	99.06	116.77	-1,438.77	2,926.76	2,910.79	2,741.24	169.55	17.168		
7,200.00	5,864.43	5,807.43	5,807.43	83.40	100.38	117.69	-1,438.77	2,926.76	2,947.25	2,775.89	171.36	17.199		
7,300.00	5,940.40	5,883.40	5,883.40	84.81	101.71	118.60	-1,438.77	2,926.76	2,984.69	2,811.54	173.15	17.237		
7,400.00	6,016.38	5,959.38	5,959.38	86.23	103.03	119.49	-1,438.77	2,926.76	3,023.06	2,848.14	174.92	17.283		
7,500.00	6,092.36	6,035.36	6,035.36	87.64	104.36	120.37	-1,438.77	2,926.76	3,062.33	2,885.67	176.66	17.335		
7,600.00	6,168.34	6,111.34	6,111.34	89.05	105.69	121.23	-1,438.77	2,926.76	3,102.47	2,924.08	178.38	17.392		
7,700.00	6,244.31	6,187.31	6,187.31	90.47	107.01	122.08	-1,438.77	2,926.76	3,143.44	2,963.35	180.09	17.455		
7,800.00	6,320.29	6,263.29	6,263.29	91.88	108.34	122.91	-1,438.77	2,926.76	3,185.21	3,003.43	181.77	17.523		
7,900.00	6,396.27	6,339.27	6,339.27	93.30	109.66	123.72	-1,438.77	2,926.76	3,227.74	3,044.30	183.44	17.595		
8,000.00	6,472.25	6,415.25	6,415.25	94.71	110.99	124.52	-1,438.77	2,926.76	3,271.02	3,085.92	185.10	17.672		
8,100.00	6,548.22	6,508.78	6,491.22	96.12	112.62	125.31	-1,438.77	2,926.76	3,315.01	3,127.96	187.05	17.723		
8,200.00	6,624.20	6,567.20	6,567.20	97.54	113.64	126.08	-1,438.77	2,926.76	3,359.68	3,171.31	188.37	17.836		
8,300.00	6,700.18	6,643.18	6,643.18	98.95	114.97	126.83	-1,438.77	2,926.76	3,405.01	3,215.02	189.99	17.922		
8,400.00	6,776.16	6,719.16	6,719.16	100.37	116.29	127.57	-1,438.77	2,926.76	3,450.96	3,259.37	191.59	18.012		
8,500.00	6,852.13	6,804.87	6,795.13	101.78	117.79	128.30	-1,438.77	2,926.76	3,497.53	3,304.16	193.36	18.088		
8,600.00	6,928.11	6,871.11	6,871.11	103.20	118.95	129.01	-1,438.77	2,926.76	3,544.67	3,349.89	194.78	18.198		
8,700.00	7,004.09	6,947.09	6,947.09	104.61	120.27	129.71	-1,438.77	2,926.76	3,592.37	3,396.01	196.36	18.295		
8,800.00	7,080.06	7,023.06	7,023.06	106.02	121.60	130.39	-1,438.77	2,926.76	3,640.60	3,442.67	197.93	18.393		
8,900.00	7,156.04	7,100.96	7,099.04	107.44	122.96	131.06	-1,438.77	2,926.76	3,689.36	3,489.82	199.53	18.490		
9,000.00	7,232.02	7,175.02	7,175.02	108.85	124.25	131.72	-1,438.77	2,926.76	3,738.60	3,537.54	201.06	18.594		
9,104.68	7,311.55	7,254.55	7,254.55	110.33	125.64	132.39	-1,438.77	2,926.76	3,790.66	3,587.97	202.69	18.702		
9,150.00	7,346.29	7,289.29	7,289.29	110.97	126.24	132.64	-1,438.77	2,926.76	3,811.94	3,608.54	203.40	18.741		
9,200.00	7,385.15	7,328.15	7,328.15	111.65	126.92	132.92	-1,438.77	2,926.76	3,832.14	3,627.95	204.19	18.767		
9,250.00	7,424.29	7,367.29	7,367.29	112.31	127.61	133.12	-1,438.77	2,926.76	3,848.80	3,643.82	204.99	18.776		
9,300.00	7,463.40	7,406.40	7,406.40	112.93	128.29	133.67	-1,438.77	2,926.76	3,861.85	3,656.08	205.77	18.768		
9,350.00	7,502.19	7,445.19	7,445.19	113.51	128.97	134.09	-1,438.77	2,926.76	3,871.21	3,664.67	206.54	18.743		
9,400.00	7,540.36	7,483.36	7,483.36	114.04	129.63	134.50	-1,438.77	2,926.76	3,876.87	3,669.59	207.28	18.703		
9,450.00	7,577.62	7,520.62	7,520.62	114.53	130.28	134.91	-1,438.77	2,926.76	3,878.82	3,670.83	207.98	18.650		
9,500.00	7,613.70	7,556.70	7,556.70	114.95	130.91	135.32	-1,438.77	2,926.76	3,877.07	3,668.43	208.64	18.583		
9,550.00	7,648.30	7,608.70	7,608.70	115.32	131.82	135.73	-1,438.77	2,926.76	3,871.67	3,662.13	209.55	18.476		
9,600.00	7,681.18	7,624.18	7,624.18	115.63	132.09	136.14	-1,438.77	2,926.76	3,862.70	3,652.92	209.78	18.413		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,650.00	7,712.08	7,655.08	7,655.08	115.88	132.63	77.31	-1,438.77	2,926.76	3,850.24	3,639.99	210.26	18.312		
9,700.00	7,740.76	7,683.76	7,683.76	116.08	133.13	75.77	-1,438.77	2,926.76	3,834.41	3,623.75	210.66	18.202		
9,750.00	7,767.01	7,710.01	7,710.01	116.23	133.59	74.85	-1,438.77	2,926.76	3,815.33	3,604.35	210.99	18.083		
9,800.00	7,790.63	7,733.63	7,733.63	116.33	134.00	74.53	-1,438.77	2,926.76	3,793.16	3,581.93	211.24	17.957		
9,850.00	7,811.44	7,754.44	7,754.44	116.38	134.36	74.80	-1,438.77	2,926.76	3,768.07	3,556.66	211.40	17.824		
9,900.00	7,829.28	7,772.28	7,772.28	116.38	134.67	75.67	-1,438.77	2,926.76	3,740.23	3,528.73	211.49	17.685		
9,950.00	7,844.01	7,787.01	7,787.01	116.35	134.93	77.17	-1,438.77	2,926.76	3,709.84	3,498.34	211.50	17.541		
10,000.00	7,855.52	7,801.48	7,798.52	116.28	135.18	79.34	-1,438.77	2,926.76	3,677.11	3,465.63	211.48	17.387		
10,050.00	7,863.72	7,806.72	7,806.72	116.18	135.28	82.22	-1,438.77	2,926.76	3,642.27	3,430.98	211.29	17.238		
10,100.00	7,868.56	7,811.56	7,811.56	116.06	135.36	85.89	-1,438.77	2,926.76	3,605.53	3,394.46	211.07	17.082		
10,145.94	7,870.00	7,813.00	7,813.00	115.92	135.39	90.00	-1,438.77	2,926.76	3,570.32	3,359.50	210.82	16.935		
10,200.00	7,870.00	7,813.00	7,813.00	115.76	135.39	90.00	-1,438.77	2,926.76	3,528.31	3,317.82	210.48	16.763		
10,300.00	7,870.00	7,813.00	7,813.00	115.46	135.39	90.00	-1,438.77	2,926.76	3,451.47	3,241.63	209.84	16.448		
10,400.00	7,870.00	7,813.00	7,813.00	115.18	135.39	90.00	-1,438.77	2,926.76	3,375.84	3,166.68	209.16	16.140		
10,500.00	7,870.00	7,813.00	7,813.00	114.91	135.39	90.00	-1,438.77	2,926.76	3,301.52	3,093.06	208.46	15.838		
10,600.00	7,870.00	7,813.00	7,813.00	114.65	135.39	90.00	-1,438.77	2,926.76	3,228.58	3,020.86	207.72	15.543		
10,700.00	7,870.00	7,813.00	7,813.00	114.41	135.39	90.00	-1,438.77	2,926.76	3,157.12	2,950.18	206.94	15.256		
10,800.00	7,870.00	7,813.00	7,813.00	114.17	135.39	90.00	-1,438.77	2,926.76	3,087.25	2,881.11	206.14	14.977		
10,900.00	7,870.00	7,813.00	7,813.00	113.95	135.39	90.00	-1,438.77	2,926.76	3,019.07	2,813.77	205.30	14.706		
11,000.00	7,870.00	7,813.00	7,813.00	113.75	135.39	90.00	-1,438.77	2,926.76	2,952.71	2,748.28	204.43	14.444		
11,100.00	7,870.00	7,813.00	7,813.00	113.55	135.39	90.00	-1,438.77	2,926.76	2,888.28	2,684.75	203.53	14.191		
11,200.00	7,870.00	7,813.00	7,813.00	113.37	135.39	90.00	-1,438.77	2,926.76	2,825.93	2,623.32	202.61	13.947		
11,300.00	7,870.00	7,813.00	7,813.00	113.20	135.39	90.00	-1,438.77	2,926.76	2,765.79	2,564.12	201.67	13.715		
11,400.00	7,870.00	7,813.00	7,813.00	113.04	135.39	90.00	-1,438.77	2,926.76	2,708.00	2,507.29	200.71	13.492		
11,500.00	7,870.00	7,813.00	7,813.00	112.89	135.39	90.00	-1,438.77	2,926.76	2,652.73	2,452.98	199.74	13.281		
11,600.00	7,870.00	7,813.00	7,813.00	112.76	135.39	90.00	-1,438.77	2,926.76	2,600.13	2,401.35	198.78	13.080		
11,700.00	7,870.00	7,813.00	7,813.00	112.64	135.39	90.00	-1,438.77	2,926.76	2,550.36	2,352.54	197.83	12.892		
11,800.00	7,870.00	7,813.00	7,813.00	112.53	135.39	90.00	-1,438.77	2,926.76	2,503.61	2,306.71	196.90	12.715		
11,900.00	7,870.00	7,813.00	7,813.00	112.44	135.39	90.00	-1,438.77	2,926.76	2,460.03	2,264.01	196.01	12.550		
12,000.00	7,870.00	7,813.00	7,813.00	112.36	135.39	90.00	-1,438.77	2,926.76	2,419.80	2,224.61	195.19	12.397		
12,100.00	7,870.00	7,813.00	7,813.00	112.29	135.39	90.00	-1,438.77	2,926.76	2,383.09	2,188.65	194.44	12.256		
12,200.00	7,870.00	7,813.00	7,813.00	112.24	135.39	90.00	-1,438.77	2,926.76	2,350.07	2,156.28	193.79	12.127		
12,300.00	7,870.00	7,813.00	7,813.00	112.20	135.39	90.00	-1,438.77	2,926.76	2,320.89	2,127.64	193.25	12.010		
12,400.00	7,870.00	7,813.00	7,813.00	112.17	135.39	90.00	-1,438.77	2,926.76	2,295.70	2,102.84	192.85	11.904		
12,500.00	7,870.00	7,813.00	7,813.00	112.16	135.39	90.00	-1,438.77	2,926.76	2,274.62	2,082.01	192.61	11.809		
12,600.00	7,870.00	7,813.00	7,813.00	112.17	135.39	90.00	-1,438.77	2,926.76	2,257.79	2,065.25	192.53	11.727		
12,700.00	7,870.00	7,813.00	7,813.00	112.19	135.39	90.00	-1,438.77	2,926.76	2,245.28	2,052.65	192.63	11.656		
12,800.00	7,870.00	7,813.00	7,813.00	112.23	135.39	90.00	-1,438.77	2,926.76	2,237.19	2,044.27	192.91	11.597		
12,900.00	7,870.00	7,813.00	7,813.00	112.28	135.39	90.00	-1,438.77	2,926.76	2,233.54	2,040.17	193.37	11.551		
12,931.53	7,870.00	7,813.00	7,813.00	112.30	135.39	90.00	-1,438.77	2,926.76	2,233.32	2,039.76	193.56	11.538 CC, ES		
13,000.00	7,870.00	7,813.00	7,813.00	112.36	135.39	90.00	-1,438.77	2,926.76	2,234.36	2,040.36	194.00	11.517		
13,100.00	7,870.00	7,813.00	7,813.00	112.45	135.39	90.00	-1,438.77	2,926.76	2,239.66	2,044.87	194.79	11.498		
13,200.00	7,870.00	7,813.00	7,813.00	112.56	135.39	90.00	-1,438.77	2,926.76	2,249.39	2,053.68	195.71	11.493 SF		
13,300.00	7,870.00	7,813.00	7,813.00	112.68	135.39	90.00	-1,438.77	2,926.76	2,263.51	2,066.75	196.76	11.504		
13,400.00	7,870.00	7,813.00	7,813.00	112.83	135.39	90.00	-1,438.77	2,926.76	2,281.92	2,084.02	197.90	11.530		
13,500.00	7,870.00	7,813.00	7,813.00	113.00	135.39	90.00	-1,438.77	2,926.76	2,304.53	2,105.41	199.12	11.573		
13,600.00	7,870.00	7,813.00	7,813.00	113.19	135.39	90.00	-1,438.77	2,926.76	2,331.21	2,130.82	200.39	11.633		
13,700.00	7,870.00	7,813.00	7,813.00	113.40	135.39	90.00	-1,438.77	2,926.76	2,361.83	2,160.14	201.69	11.710		
13,800.00	7,870.00	7,813.00	7,813.00	113.63	135.39	90.00	-1,438.77	2,926.76	2,396.24	2,193.23	203.00	11.804		
13,900.00	7,870.00	7,813.00	7,813.00	113.89	135.39	90.00	-1,438.77	2,926.76	2,434.26	2,229.95	204.31	11.914		
14,000.00	7,870.00	7,813.00	7,813.00	114.18	135.39	90.00	-1,438.77	2,926.76	2,475.75	2,270.15	205.60	12.042		
14,100.00	7,870.00	7,813.00	7,813.00	114.48	135.39	90.00	-1,438.77	2,926.76	2,520.52	2,313.66	206.86	12.185		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,200.00	7,870.00	7,813.00	7,813.00	114.82	135.39	90.00	-1,438.77	2,926.76	2,568.41	2,360.33	208.08	12.343		
14,300.00	7,870.00	7,813.00	7,813.00	115.18	135.39	90.00	-1,438.77	2,926.76	2,619.24	2,409.98	209.26	12.517		
14,400.00	7,870.00	7,813.00	7,813.00	115.57	135.39	90.00	-1,438.77	2,926.76	2,672.85	2,462.47	210.38	12.705		
14,500.00	7,870.00	7,813.00	7,813.00	115.99	135.39	90.00	-1,438.77	2,926.76	2,729.07	2,517.61	211.45	12.906		
14,600.00	7,870.00	7,813.00	7,813.00	116.44	135.39	90.00	-1,438.77	2,926.76	2,787.74	2,575.27	212.47	13.120		
14,700.00	7,870.00	7,813.00	7,813.00	116.92	135.39	90.00	-1,438.77	2,926.76	2,848.72	2,635.28	213.44	13.347		
14,800.00	7,870.00	7,813.00	7,813.00	117.44	135.39	90.00	-1,438.77	2,926.76	2,911.85	2,697.51	214.35	13.585		
14,900.00	7,870.00	7,813.00	7,813.00	117.98	135.39	90.00	-1,438.77	2,926.76	2,977.01	2,761.81	215.20	13.834		
15,000.00	7,870.00	7,813.00	7,813.00	118.56	135.39	90.00	-1,438.77	2,926.76	3,044.06	2,828.05	216.00	14.093		
15,100.00	7,870.00	7,813.00	7,813.00	119.17	135.39	90.00	-1,438.77	2,926.76	3,112.87	2,896.11	216.76	14.361		
15,200.00	7,870.00	7,813.00	7,813.00	119.81	135.39	90.00	-1,438.77	2,926.76	3,183.34	2,965.88	217.47	14.638		
15,300.00	7,870.00	7,813.00	7,813.00	120.48	135.39	90.00	-1,438.77	2,926.76	3,255.36	3,037.23	218.13	14.924		
15,400.00	7,870.00	7,813.00	7,813.00	121.19	135.39	90.00	-1,438.77	2,926.76	3,328.82	3,110.08	218.75	15.218		
15,500.00	7,870.00	7,813.00	7,813.00	121.93	135.39	90.00	-1,438.77	2,926.76	3,403.64	3,184.31	219.33	15.519		
15,600.00	7,870.00	7,813.00	7,813.00	122.71	135.39	90.00	-1,438.77	2,926.76	3,479.72	3,259.85	219.87	15.826		
15,700.00	7,870.00	7,813.00	7,813.00	123.52	135.39	90.00	-1,438.77	2,926.76	3,556.98	3,336.61	220.37	16.141		
15,800.00	7,870.00	7,813.00	7,813.00	124.36	135.39	90.00	-1,438.77	2,926.76	3,635.36	3,414.51	220.85	16.461		
15,900.00	7,870.00	7,813.00	7,813.00	125.23	135.39	90.00	-1,438.77	2,926.76	3,714.77	3,493.48	221.29	16.787		
16,000.00	7,870.00	7,813.00	7,813.00	126.14	135.39	90.00	-1,438.77	2,926.76	3,795.16	3,573.45	221.71	17.118		
16,100.00	7,870.00	7,813.00	7,813.00	127.07	135.39	90.00	-1,438.77	2,926.76	3,876.46	3,654.36	222.10	17.454		
16,200.00	7,870.00	7,813.00	7,813.00	128.04	135.39	90.00	-1,438.77	2,926.76	3,958.61	3,736.15	222.46	17.795		
16,300.00	7,870.00	7,813.00	7,813.00	129.04	135.39	90.00	-1,438.77	2,926.76	4,041.57	3,818.77	222.80	18.140		
16,400.00	7,870.00	7,813.00	7,813.00	130.06	135.39	90.00	-1,438.77	2,926.76	4,125.29	3,902.17	223.12	18.489		
16,500.00	7,870.00	7,813.00	7,813.00	131.11	135.39	90.00	-1,438.77	2,926.76	4,209.71	3,986.29	223.42	18.842		
16,600.00	7,870.00	7,813.00	7,813.00	132.19	135.39	90.00	-1,438.77	2,926.76	4,294.81	4,071.11	223.70	19.199		
16,700.00	7,870.00	7,813.00	7,813.00	133.29	135.39	90.00	-1,438.77	2,926.76	4,380.54	4,156.57	223.97	19.559		
16,800.00	7,870.00	7,813.00	7,813.00	134.42	135.39	90.00	-1,438.77	2,926.76	4,466.85	4,242.64	224.22	19.922		
16,900.00	7,870.00	7,813.00	7,813.00	135.57	135.39	90.00	-1,438.77	2,926.76	4,553.73	4,329.28	224.45	20.288		
17,000.00	7,870.00	7,813.00	7,813.00	136.75	135.39	90.00	-1,438.77	2,926.76	4,641.14	4,416.47	224.67	20.657		
17,100.00	7,870.00	7,813.00	7,813.00	137.94	135.39	90.00	-1,438.77	2,926.76	4,729.05	4,504.16	224.88	21.029		
17,200.00	7,870.00	7,813.00	7,813.00	139.16	135.39	90.00	-1,438.77	2,926.76	4,817.42	4,592.34	225.08	21.403		
17,300.00	7,870.00	7,813.00	7,813.00	140.39	135.39	90.00	-1,438.77	2,926.76	4,906.25	4,680.98	225.27	21.780		
17,400.00	7,870.00	7,813.00	7,813.00	141.65	135.39	90.00	-1,438.77	2,926.76	4,995.49	4,770.05	225.44	22.159		
17,500.00	7,870.00	7,813.00	7,813.00	142.92	135.39	90.00	-1,438.77	2,926.76	5,085.14	4,859.53	225.61	22.539		
17,600.00	7,870.00	7,813.00	7,813.00	144.21	135.39	90.00	-1,438.77	2,926.76	5,175.17	4,949.40	225.77	22.922		
17,700.00	7,870.00	7,813.00	7,813.00	145.52	135.39	90.00	-1,438.77	2,926.76	5,265.55	5,039.63	225.92	23.307		
17,800.00	7,870.00	7,813.00	7,813.00	146.84	135.39	90.00	-1,438.77	2,926.76	5,356.28	5,130.22	226.06	23.694		
17,900.00	7,870.00	7,813.00	7,813.00	148.18	135.39	90.00	-1,438.77	2,926.76	5,447.33	5,221.13	226.20	24.082		
18,000.00	7,870.00	7,813.00	7,813.00	149.54	135.39	90.00	-1,438.77	2,926.76	5,538.69	5,312.37	226.33	24.472		
18,100.00	7,870.00	7,813.00	7,813.00	150.90	135.39	90.00	-1,438.77	2,926.76	5,630.35	5,403.90	226.45	24.863		
18,200.00	7,870.00	7,813.00	7,813.00	152.28	135.39	90.00	-1,438.77	2,926.76	5,722.28	5,495.71	226.57	25.256		
18,300.00	7,870.00	7,813.00	7,813.00	153.67	135.39	90.00	-1,438.77	2,926.76	5,814.48	5,587.80	226.68	25.650		
18,400.00	7,870.00	7,813.00	7,813.00	155.07	135.39	90.00	-1,438.77	2,926.76	5,906.94	5,680.15	226.79	26.046		
18,500.00	7,870.00	7,813.00	7,813.00	156.49	135.39	90.00	-1,438.77	2,926.76	5,999.63	5,772.74	226.89	26.443		
18,600.00	7,870.00	7,813.00	7,813.00	157.91	135.39	90.00	-1,438.77	2,926.76	6,092.56	5,865.57	226.99	26.841		
18,700.00	7,870.00	7,813.00	7,813.00	159.35	135.39	90.00	-1,438.77	2,926.76	6,185.71	5,958.62	227.09	27.239		
18,800.00	7,870.00	7,813.00	7,813.00	160.79	135.39	90.00	-1,438.77	2,926.76	6,279.07	6,051.89	227.18	27.640		
18,900.00	7,870.00	7,813.00	7,813.00	162.25	135.39	90.00	-1,438.77	2,926.76	6,372.63	6,145.36	227.26	28.041		
19,000.00	7,870.00	7,813.00	7,813.00	163.71	135.39	90.00	-1,438.77	2,926.76	6,466.38	6,239.03	227.35	28.443		
19,100.00	7,870.00	7,813.00	7,813.00	165.18	135.39	90.00	-1,438.77	2,926.76	6,560.32	6,332.89	227.43	28.845		
19,200.00	7,870.00	7,813.00	7,813.00	166.66	135.39	90.00	-1,438.77	2,926.76	6,654.43	6,426.92	227.51	29.249		
19,300.00	7,870.00	7,813.00	7,813.00	168.15	135.39	90.00	-1,438.77	2,926.76	6,748.71	6,521.13	227.58	29.654		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		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)			
19,400.00	7,870.00	7,813.00	7,813.00	169.65	135.39	90.00	-1,438.77	2,926.76	6,843.16	6,615.50	227.66	30.059	
19,500.00	7,870.00	7,813.00	7,813.00	171.15	135.39	90.00	-1,438.77	2,926.76	6,937.76	6,710.03	227.73	30.465	
19,600.00	7,870.00	7,813.00	7,813.00	172.66	135.39	90.00	-1,438.77	2,926.76	7,032.51	6,804.71	227.80	30.872	
19,700.00	7,870.00	7,813.00	7,813.00	174.18	135.39	90.00	-1,438.77	2,926.76	7,127.41	6,899.54	227.86	31.279	
19,800.00	7,870.00	7,813.00	7,813.00	175.70	135.39	90.00	-1,438.77	2,926.76	7,222.44	6,994.51	227.93	31.687	
19,889.26	7,870.00	7,813.00	7,813.00	177.06	135.39	90.00	-1,438.77	2,926.76	7,307.37	7,079.39	227.99	32.052	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	108.79	-1,434.94	4,217.64	4,455.21					
100.00	100.00	64.00	64.00	0.13	0.49	108.79	-1,434.94	4,217.64	4,455.06	4,454.44	0.62	7,181.791		
200.00	200.00	164.00	164.00	0.49	1.88	108.79	-1,434.94	4,217.64	4,455.06	4,452.69	2.37	1,880.464		
300.00	300.00	264.00	264.00	0.85	3.62	108.79	-1,434.94	4,217.64	4,455.06	4,450.59	4.47	996.005		
400.00	399.98	363.98	363.98	1.21	5.37	40.68	-1,434.94	4,217.64	4,453.74	4,447.16	6.57	677.675		
500.00	499.84	463.84	463.84	1.56	7.11	40.77	-1,434.94	4,217.64	4,449.77	4,441.10	8.67	513.173		
600.00	599.45	563.45	563.45	1.93	8.85	40.93	-1,434.94	4,217.64	4,443.16	4,432.39	10.77	412.454		
700.00	698.70	662.70	662.70	2.32	10.58	41.16	-1,434.94	4,217.64	4,433.94	4,421.07	12.88	344.360		
800.00	797.47	761.47	761.47	2.72	12.30	41.45	-1,434.94	4,217.64	4,422.13	4,407.15	14.98	295.165		
900.00	895.62	859.62	859.62	3.16	14.02	41.80	-1,434.94	4,217.64	4,407.75	4,390.66	17.09	257.892		
1,000.00	993.06	957.06	957.06	3.63	15.72	42.23	-1,434.94	4,217.64	4,390.84	4,371.64	19.21	228.618		
1,100.00	1,089.64	1,053.64	1,053.64	4.14	17.40	42.72	-1,434.94	4,217.64	4,371.45	4,350.12	21.33	204.973		
1,200.00	1,185.27	1,149.27	1,149.27	4.70	19.07	43.28	-1,434.94	4,217.64	4,349.63	4,326.17	23.46	185.437		
1,300.00	1,279.82	1,243.82	1,243.82	5.31	20.72	43.91	-1,434.94	4,217.64	4,325.43	4,299.84	25.59	168.995		
1,400.00	1,373.17	1,337.17	1,337.17	5.97	22.35	44.62	-1,434.94	4,217.64	4,298.93	4,271.18	27.75	154.940		
1,500.00	1,465.21	1,429.21	1,429.21	6.69	23.96	45.40	-1,434.94	4,217.64	4,270.18	4,240.27	29.91	142.767		
1,600.00	1,555.84	1,519.84	1,519.84	7.47	25.54	46.25	-1,434.94	4,217.64	4,239.28	4,207.19	32.09	132.104		
1,700.00	1,644.94	1,608.94	1,608.94	8.31	27.10	47.18	-1,434.94	4,217.64	4,206.30	4,172.01	34.29	122.673		
1,800.00	1,732.39	1,703.61	1,696.39	9.23	28.75	48.19	-1,434.94	4,217.64	4,171.34	4,134.70	36.63	113.868		
1,900.00	1,818.11	1,782.11	1,782.11	10.21	30.12	49.28	-1,434.94	4,217.64	4,134.49	4,095.75	38.75	106.702		
2,000.00	1,901.97	1,865.97	1,865.97	11.26	31.58	50.45	-1,434.94	4,217.64	4,095.88	4,054.86	41.01	99.865		
2,100.00	1,983.88	1,947.88	1,947.88	12.38	33.01	51.70	-1,434.94	4,217.64	4,055.60	4,012.30	43.31	93.647		
2,200.00	2,063.74	2,027.74	2,027.74	13.57	34.40	53.02	-1,434.94	4,217.64	4,013.80	3,968.16	45.63	87.963		
2,300.00	2,141.45	2,105.45	2,105.45	14.84	35.76	54.42	-1,434.94	4,217.64	3,970.58	3,922.59	47.99	82.744		
2,327.78	2,162.65	2,126.65	2,126.65	15.21	36.13	55.29	-1,434.94	4,217.64	3,958.34	3,909.69	48.65	81.368		
2,400.00	2,217.51	2,181.51	2,181.51	16.17	37.09	54.82	-1,434.94	4,217.64	3,926.56	3,876.18	50.37	77.947		
2,500.00	2,293.49	2,257.49	2,257.49	17.51	38.41	55.96	-1,434.94	4,217.64	3,883.05	3,830.26	52.80	73.546		
2,600.00	2,369.47	2,333.47	2,333.47	18.86	39.74	56.63	-1,434.94	4,217.64	3,840.16	3,784.90	55.25	69.501		
2,700.00	2,445.45	2,409.45	2,409.45	20.22	41.07	57.32	-1,434.94	4,217.64	3,797.89	3,740.15	57.74	65.774		
2,800.00	2,521.42	2,485.42	2,485.42	21.59	42.39	58.02	-1,434.94	4,217.64	3,756.27	3,696.01	60.26	62.335		
2,900.00	2,597.40	2,561.40	2,561.40	22.97	43.72	58.72	-1,434.94	4,217.64	3,715.33	3,652.52	62.81	59.155		
3,000.00	2,673.38	2,637.38	2,637.38	24.34	45.04	59.44	-1,434.94	4,217.64	3,675.07	3,609.69	65.38	56.209		
3,100.00	2,749.36	2,713.36	2,713.36	25.73	46.37	60.17	-1,434.94	4,217.64	3,635.54	3,567.56	67.98	53.476		
3,200.00	2,825.33	2,789.33	2,789.33	27.11	47.70	60.91	-1,434.94	4,217.64	3,596.75	3,526.13	70.61	50.936		
3,300.00	2,901.31	2,865.31	2,865.31	28.50	49.02	61.66	-1,434.94	4,217.64	3,558.72	3,485.45	73.27	48.571		
3,400.00	2,977.29	2,941.29	2,941.29	29.90	50.35	62.42	-1,434.94	4,217.64	3,521.48	3,445.53	75.95	46.367		
3,500.00	3,053.27	3,017.27	3,017.27	31.29	51.68	63.19	-1,434.94	4,217.64	3,485.06	3,406.40	78.65	44.309		
3,600.00	3,129.24	3,106.76	3,093.24	32.69	53.24	63.97	-1,434.94	4,217.64	3,449.47	3,367.86	81.62	42.263		
3,700.00	3,205.22	3,169.22	3,169.22	34.08	54.33	64.77	-1,434.94	4,217.64	3,414.76	3,330.62	84.13	40.587		
3,800.00	3,281.20	3,245.20	3,245.20	35.48	55.65	65.57	-1,434.94	4,217.64	3,380.94	3,294.03	86.91	38.902		
3,900.00	3,357.18	3,321.18	3,321.18	36.88	56.98	66.38	-1,434.94	4,217.64	3,348.04	3,258.33	89.71	37.322		
4,000.00	3,433.15	3,402.85	3,397.15	38.29	58.40	67.21	-1,434.94	4,217.64	3,316.09	3,223.46	92.62	35.802		
4,100.00	3,509.13	3,473.13	3,473.13	39.69	59.63	68.04	-1,434.94	4,217.64	3,285.11	3,189.75	95.36	34.449		
4,200.00	3,585.11	3,549.11	3,549.11	41.09	60.96	68.89	-1,434.94	4,217.64	3,255.14	3,156.92	98.22	33.142		
4,300.00	3,661.08	3,625.08	3,625.08	42.50	62.28	69.74	-1,434.94	4,217.64	3,226.20	3,125.11	101.09	31.914		
4,400.00	3,737.06	3,701.06	3,701.06	43.90	63.61	70.60	-1,434.94	4,217.64	3,198.32	3,094.34	103.98	30.759		
4,500.00	3,813.04	3,777.04	3,777.04	45.31	64.94	71.47	-1,434.94	4,217.64	3,171.53	3,064.65	106.89	29.672		
4,600.00	3,889.02	3,853.02	3,853.02	46.71	66.26	72.36	-1,434.94	4,217.64	3,145.86	3,036.05	109.80	28.650		
4,700.00	3,964.99	3,928.99	3,928.99	48.12	67.59	73.25	-1,434.94	4,217.64	3,121.33	3,008.59	112.73	27.688		
4,800.00	4,040.97	4,004.97	4,004.97	49.53	68.91	74.14	-1,434.94	4,217.64	3,097.97	2,982.29	115.67	26.782		
4,900.00	4,116.95	4,080.95	4,080.95	50.94	70.24	75.05	-1,434.94	4,217.64	3,075.80	2,957.18	118.62	25.930		
5,000.00	4,192.93	4,156.93	4,156.93	52.35	71.57	75.97	-1,434.94	4,217.64	3,054.86	2,933.29	121.57	25.128		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,268.90	4,232.90	4,232.90	53.76	72.89	76.89	-1,434.94	4,217.64	3,035.17	2,910.64	124.53	24.373		
5,200.00	4,344.88	4,308.88	4,308.88	55.16	74.22	77.82	-1,434.94	4,217.64	3,016.75	2,889.26	127.49	23.663		
5,300.00	4,420.86	4,384.86	4,384.86	56.57	75.54	78.75	-1,434.94	4,217.64	2,999.63	2,869.18	130.45	22.995		
5,400.00	4,496.84	4,460.84	4,460.84	57.98	76.87	79.69	-1,434.94	4,217.64	2,983.83	2,850.43	133.40	22.368		
5,500.00	4,572.81	4,536.81	4,536.81	59.39	78.20	80.64	-1,434.94	4,217.64	2,969.36	2,833.01	136.35	21.778		
5,600.00	4,648.79	4,612.79	4,612.79	60.81	79.52	81.59	-1,434.94	4,217.64	2,956.26	2,816.97	139.29	21.224		
5,700.00	4,724.77	4,688.77	4,688.77	62.22	80.85	82.55	-1,434.94	4,217.64	2,944.53	2,802.31	142.22	20.704		
5,800.00	4,800.74	4,764.74	4,764.74	63.63	82.17	83.51	-1,434.94	4,217.64	2,934.20	2,789.07	145.13	20.217		
5,900.00	4,876.72	4,840.72	4,840.72	65.04	83.50	84.47	-1,434.94	4,217.64	2,925.28	2,777.24	148.03	19.761		
6,000.00	4,952.70	4,916.70	4,916.70	66.45	84.83	85.44	-1,434.94	4,217.64	2,917.78	2,766.86	150.92	19.334		
6,100.00	5,028.68	5,007.32	4,992.68	67.86	86.41	86.41	-1,434.94	4,217.64	2,911.71	2,757.67	154.03	18.903		
6,200.00	5,104.65	5,068.65	5,068.65	69.27	87.48	87.38	-1,434.94	4,217.64	2,907.08	2,750.47	156.62	18.562		
6,300.00	5,180.63	5,144.63	5,144.63	70.69	88.80	88.36	-1,434.94	4,217.64	2,903.90	2,744.48	159.43	18.214		
6,400.00	5,256.61	5,220.61	5,220.61	72.10	90.13	89.33	-1,434.94	4,217.64	2,902.18	2,739.97	162.21	17.891		
6,468.39	5,308.57	5,272.57	5,272.57	73.06	91.04	90.00	-1,434.94	4,217.64	2,901.84	2,737.74	164.10	17.683		
6,500.00	5,332.59	5,303.41	5,296.59	73.51	91.58	90.31	-1,434.94	4,217.64	2,901.91	2,736.83	165.09	17.578		
6,600.00	5,408.56	5,372.56	5,372.56	74.92	92.78	91.28	-1,434.94	4,217.64	2,903.10	2,735.41	167.69	17.312		
6,700.00	5,484.54	5,448.54	5,448.54	76.34	94.11	92.26	-1,434.94	4,217.64	2,905.74	2,735.37	170.38	17.055		
6,800.00	5,560.52	5,524.52	5,524.52	77.75	95.43	93.23	-1,434.94	4,217.64	2,909.84	2,736.81	173.03	16.817		
6,900.00	5,636.50	5,600.50	5,600.50	79.16	96.76	94.20	-1,434.94	4,217.64	2,915.38	2,739.73	175.65	16.598		
7,000.00	5,712.47	5,676.47	5,676.47	80.57	98.09	95.17	-1,434.94	4,217.64	2,922.35	2,744.13	178.23	16.397		
7,100.00	5,788.45	5,752.45	5,752.45	81.99	99.41	96.14	-1,434.94	4,217.64	2,930.75	2,749.99	180.77	16.213		
7,200.00	5,864.43	5,828.43	5,828.43	83.40	100.74	97.10	-1,434.94	4,217.64	2,940.57	2,757.30	183.27	16.045		
7,300.00	5,940.40	5,904.40	5,904.40	84.81	102.07	98.06	-1,434.94	4,217.64	2,951.78	2,766.06	185.72	15.893		
7,400.00	6,016.38	5,980.38	5,980.38	86.23	103.39	99.01	-1,434.94	4,217.64	2,964.38	2,776.24	188.14	15.756		
7,500.00	6,092.36	6,056.36	6,056.36	87.64	104.72	99.96	-1,434.94	4,217.64	2,978.35	2,787.83	190.52	15.633		
7,600.00	6,168.34	6,132.34	6,132.34	89.05	106.04	100.90	-1,434.94	4,217.64	2,993.66	2,800.81	192.85	15.523		
7,700.00	6,244.31	6,208.31	6,208.31	90.47	107.37	101.84	-1,434.94	4,217.64	3,010.30	2,815.16	195.14	15.426		
7,800.00	6,320.29	6,284.29	6,284.29	91.88	108.70	102.77	-1,434.94	4,217.64	3,028.25	2,830.85	197.39	15.341		
7,900.00	6,396.27	6,360.27	6,360.27	93.30	110.02	103.70	-1,434.94	4,217.64	3,047.47	2,847.87	199.61	15.267		
8,000.00	6,472.25	6,436.25	6,436.25	94.71	111.35	104.61	-1,434.94	4,217.64	3,067.96	2,866.18	201.78	15.205		
8,100.00	6,548.22	6,512.22	6,512.22	96.12	112.67	105.52	-1,434.94	4,217.64	3,089.67	2,885.77	203.91	15.152		
8,200.00	6,624.20	6,588.20	6,588.20	97.54	114.00	106.42	-1,434.94	4,217.64	3,112.60	2,906.60	206.00	15.110		
8,300.00	6,700.18	6,664.18	6,664.18	98.95	115.33	107.32	-1,434.94	4,217.64	3,136.70	2,928.65	208.05	15.077		
8,400.00	6,776.16	6,740.16	6,740.16	100.37	116.65	108.20	-1,434.94	4,217.64	3,161.96	2,951.89	210.07	15.052		
8,500.00	6,852.13	6,816.13	6,816.13	101.78	117.98	109.08	-1,434.94	4,217.64	3,188.34	2,976.29	212.05	15.036		
8,600.00	6,928.11	6,907.89	6,892.11	103.20	119.58	109.94	-1,434.94	4,217.64	3,215.82	3,001.55	214.27	15.008		
8,700.00	7,004.09	6,968.09	6,968.09	104.61	120.63	110.80	-1,434.94	4,217.64	3,244.38	3,028.47	215.91	15.027		
8,800.00	7,080.06	7,044.06	7,044.06	106.02	121.96	111.65	-1,434.94	4,217.64	3,273.97	3,056.18	217.79	15.033		
8,900.00	7,156.04	7,120.04	7,120.04	107.44	123.28	112.49	-1,434.94	4,217.64	3,304.58	3,084.94	219.64	15.045		
9,000.00	7,232.02	7,203.98	7,196.02	108.85	124.75	113.31	-1,434.94	4,217.64	3,336.17	3,114.57	221.60	15.055		
9,104.68	7,311.55	7,275.55	7,275.55	110.33	126.00	114.17	-1,434.94	4,217.64	3,370.28	3,146.94	223.34	15.091		
9,150.00	7,346.29	7,310.29	7,310.29	110.97	126.60	109.13	-1,434.94	4,217.64	3,383.67	3,159.52	224.15	15.096		
9,200.00	7,385.15	7,349.15	7,349.15	111.65	127.28	103.29	-1,434.94	4,217.64	3,394.69	3,169.64	225.06	15.084		
9,250.00	7,424.29	7,388.29	7,388.29	112.31	127.96	97.32	-1,434.94	4,217.64	3,401.73	3,175.76	225.97	15.054		
9,300.00	7,463.40	7,427.40	7,427.40	112.93	128.65	91.43	-1,434.94	4,217.64	3,404.75	3,177.88	226.87	15.008		
9,350.00	7,502.19	7,466.19	7,466.19	113.51	129.32	85.80	-1,434.94	4,217.64	3,403.74	3,175.98	227.75	14.945		
9,400.00	7,540.36	7,504.36	7,504.36	114.04	129.99	80.61	-1,434.94	4,217.64	3,398.72	3,170.11	228.61	14.867		
9,450.00	7,577.62	7,541.62	7,541.62	114.53	130.64	75.96	-1,434.94	4,217.64	3,389.73	3,160.31	229.42	14.775		
9,500.00	7,613.70	7,577.70	7,577.70	114.95	131.27	71.93	-1,434.94	4,217.64	3,376.86	3,146.66	230.20	14.670		
9,550.00	7,648.30	7,612.30	7,612.30	115.32	131.87	68.55	-1,434.94	4,217.64	3,360.19	3,129.28	230.91	14.552		
9,600.00	7,681.18	7,645.18	7,645.18	115.63	132.45	65.82	-1,434.94	4,217.64	3,339.85	3,108.28	231.57	14.423		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,650.00	7,712.08	7,676.08	7,676.08	115.88	132.99	63.73	-1,434.94	4,217.64	3,315.99	3,083.82	232.16	14.283		
9,700.00	7,740.76	7,704.76	7,704.76	116.08	133.49	62.27	-1,434.94	4,217.64	3,288.75	3,056.06	232.69	14.134		
9,750.00	7,767.01	7,731.01	7,731.01	116.23	133.95	61.43	-1,434.94	4,217.64	3,258.35	3,025.20	233.14	13.976		
9,800.00	7,790.63	7,754.63	7,754.63	116.33	134.36	61.24	-1,434.94	4,217.64	3,224.97	2,991.45	233.52	13.810		
9,850.00	7,811.44	7,775.44	7,775.44	116.38	134.72	61.75	-1,434.94	4,217.64	3,188.85	2,955.02	233.83	13.638		
9,900.00	7,829.28	7,806.72	7,793.28	116.38	135.27	63.05	-1,434.94	4,217.64	3,150.22	2,915.93	234.29	13.446		
9,950.00	7,844.01	7,808.01	7,808.01	116.35	135.29	65.28	-1,434.94	4,217.64	3,109.36	2,875.14	234.22	13.276		
10,000.00	7,855.52	7,819.52	7,819.52	116.28	135.49	68.71	-1,434.94	4,217.64	3,066.52	2,832.22	234.30	13.088		
10,050.00	7,863.72	7,827.72	7,827.72	116.18	135.63	73.70	-1,434.94	4,217.64	3,022.00	2,787.68	234.33	12.897		
10,100.00	7,868.56	7,832.56	7,832.56	116.06	135.72	80.86	-1,434.94	4,217.64	2,976.10	2,741.82	234.28	12.703		
10,145.94	7,870.00	7,834.00	7,834.00	115.92	135.74	90.00	-1,434.94	4,217.64	2,932.97	2,698.77	234.19	12.524		
10,200.00	7,870.00	7,834.00	7,834.00	115.76	135.74	90.00	-1,434.94	4,217.64	2,881.83	2,647.77	234.06	12.312		
10,300.00	7,870.00	7,834.00	7,834.00	115.46	135.74	90.00	-1,434.94	4,217.64	2,787.52	2,553.73	233.79	11.923		
10,400.00	7,870.00	7,834.00	7,834.00	115.18	135.74	90.00	-1,434.94	4,217.64	2,693.62	2,460.13	233.49	11.536		
10,500.00	7,870.00	7,834.00	7,834.00	114.91	135.74	90.00	-1,434.94	4,217.64	2,600.18	2,367.02	233.16	11.152		
10,600.00	7,870.00	7,834.00	7,834.00	114.65	135.74	90.00	-1,434.94	4,217.64	2,507.24	2,274.45	232.79	10.770		
10,700.00	7,870.00	7,834.00	7,834.00	114.41	135.74	90.00	-1,434.94	4,217.64	2,414.86	2,182.48	232.38	10.392		
10,800.00	7,870.00	7,834.00	7,834.00	114.17	135.74	90.00	-1,434.94	4,217.64	2,323.12	2,091.19	231.93	10.017		
10,900.00	7,870.00	7,834.00	7,834.00	113.95	135.74	90.00	-1,434.94	4,217.64	2,232.09	2,000.67	231.42	9.645		
11,000.00	7,870.00	7,834.00	7,834.00	113.75	135.74	90.00	-1,434.94	4,217.64	2,141.86	1,911.01	230.84	9.278		
11,100.00	7,870.00	7,834.00	7,834.00	113.55	135.74	90.00	-1,434.94	4,217.64	2,052.53	1,822.33	230.19	8.917		
11,200.00	7,870.00	7,834.00	7,834.00	113.37	135.74	90.00	-1,434.94	4,217.64	1,964.23	1,734.77	229.46	8.560		
11,300.00	7,870.00	7,834.00	7,834.00	113.20	135.74	90.00	-1,434.94	4,217.64	1,877.11	1,648.48	228.63	8.210		
11,400.00	7,870.00	7,834.00	7,834.00	113.04	135.74	90.00	-1,434.94	4,217.64	1,791.33	1,563.65	227.67	7.868		
11,500.00	7,870.00	7,834.00	7,834.00	112.89	135.74	90.00	-1,434.94	4,217.64	1,707.10	1,480.51	226.59	7.534		
11,600.00	7,870.00	7,834.00	7,834.00	112.76	135.74	90.00	-1,434.94	4,217.64	1,624.66	1,399.32	225.34	7.210		
11,700.00	7,870.00	7,834.00	7,834.00	112.64	135.74	90.00	-1,434.94	4,217.64	1,544.29	1,320.38	223.91	6.897		
11,800.00	7,870.00	7,834.00	7,834.00	112.53	135.74	90.00	-1,434.94	4,217.64	1,466.34	1,244.08	222.26	6.597		
11,900.00	7,870.00	7,834.00	7,834.00	112.44	135.74	90.00	-1,434.94	4,217.64	1,391.22	1,170.85	220.36	6.313		
12,000.00	7,870.00	7,834.00	7,834.00	112.36	135.74	90.00	-1,434.94	4,217.64	1,319.40	1,101.21	218.19	6.047		
12,100.00	7,870.00	7,834.00	7,834.00	112.29	135.74	90.00	-1,434.94	4,217.64	1,251.46	1,035.74	215.72	5.801		
12,200.00	7,870.00	7,834.00	7,834.00	112.24	135.74	90.00	-1,434.94	4,217.64	1,188.05	975.12	212.93	5.580		
12,300.00	7,870.00	7,834.00	7,834.00	112.20	135.74	90.00	-1,434.94	4,217.64	1,129.95	920.11	209.84	5.385		
12,400.00	7,870.00	7,834.00	7,834.00	112.17	135.74	90.00	-1,434.94	4,217.64	1,078.02	871.51	206.51	5.220		
12,500.00	7,870.00	7,834.00	7,834.00	112.16	135.74	90.00	-1,434.94	4,217.64	1,033.17	830.10	203.07	5.088		
12,600.00	7,870.00	7,834.00	7,834.00	112.17	135.74	90.00	-1,434.94	4,217.64	996.38	796.64	199.74	4.988		
12,700.00	7,870.00	7,834.00	7,834.00	112.19	135.74	90.00	-1,434.94	4,217.64	968.56	771.72	196.84	4.920		
12,800.00	7,870.00	7,834.00	7,834.00	112.23	135.74	90.00	-1,434.94	4,217.64	950.49	755.73	194.76	4.880		
12,900.00	7,870.00	7,834.00	7,834.00	112.28	135.74	90.00	-1,434.94	4,217.64	942.74	748.89	193.85	4.863		
12,923.37	7,870.00	7,834.00	7,834.00	112.30	135.74	90.00	-1,434.94	4,217.64	942.45	748.62	193.83	4.862 CC, ES, SF		
13,000.00	7,870.00	7,834.00	7,834.00	112.36	135.74	90.00	-1,434.94	4,217.64	945.56	751.28	194.28	4.867		
13,100.00	7,870.00	7,834.00	7,834.00	112.45	135.74	90.00	-1,434.94	4,217.64	958.86	762.89	195.97	4.893		
13,200.00	7,870.00	7,834.00	7,834.00	112.56	135.74	90.00	-1,434.94	4,217.64	982.21	783.57	198.64	4.945		
13,300.00	7,870.00	7,834.00	7,834.00	112.68	135.74	90.00	-1,434.94	4,217.64	1,014.92	813.04	201.88	5.027		
13,400.00	7,870.00	7,834.00	7,834.00	112.83	135.74	90.00	-1,434.94	4,217.64	1,056.12	850.76	205.36	5.143		
13,500.00	7,870.00	7,834.00	7,834.00	113.00	135.74	90.00	-1,434.94	4,217.64	1,104.86	896.07	208.79	5.292		
13,600.00	7,870.00	7,834.00	7,834.00	113.19	135.74	90.00	-1,434.94	4,217.64	1,160.19	948.17	212.02	5.472		
13,700.00	7,870.00	7,834.00	7,834.00	113.40	135.74	90.00	-1,434.94	4,217.64	1,221.22	1,006.26	214.96	5.681		
13,800.00	7,870.00	7,834.00	7,834.00	113.63	135.74	90.00	-1,434.94	4,217.64	1,287.13	1,069.55	217.58	5.916		
13,900.00	7,870.00	7,834.00	7,834.00	113.89	135.74	90.00	-1,434.94	4,217.64	1,357.21	1,137.33	219.89	6.172		
14,000.00	7,870.00	7,834.00	7,834.00	114.18	135.74	90.00	-1,434.94	4,217.64	1,430.86	1,208.96	221.90	6.448		
14,100.00	7,870.00	7,834.00	7,834.00	114.48	135.74	90.00	-1,434.94	4,217.64	1,507.54	1,283.89	223.65	6.741		

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

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 33-23 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,870.00	7,834.00	7,834.00	114.82	135.74	90.00	-1,434.94	4,217.64	1,586.82	1,361.65	225.18	7.047		
14,300.00	7,870.00	7,834.00	7,834.00	115.18	135.74	90.00	-1,434.94	4,217.64	1,668.33	1,441.83	226.50	7.366		
14,400.00	7,870.00	7,834.00	7,834.00	115.57	135.74	90.00	-1,434.94	4,217.64	1,751.76	1,524.11	227.65	7.695		
14,500.00	7,870.00	7,834.00	7,834.00	115.99	135.74	90.00	-1,434.94	4,217.64	1,836.84	1,608.18	228.66	8.033		
14,600.00	7,870.00	7,834.00	7,834.00	116.44	135.74	90.00	-1,434.94	4,217.64	1,923.36	1,693.82	229.54	8.379		
14,700.00	7,870.00	7,834.00	7,834.00	116.92	135.74	90.00	-1,434.94	4,217.64	2,011.13	1,780.82	230.31	8.732		
14,800.00	7,870.00	7,834.00	7,834.00	117.44	135.74	90.00	-1,434.94	4,217.64	2,099.99	1,869.00	231.00	9.091		
14,900.00	7,870.00	7,834.00	7,834.00	117.98	135.74	90.00	-1,434.94	4,217.64	2,189.82	1,958.22	231.60	9.455		
15,000.00	7,870.00	7,834.00	7,834.00	118.56	135.74	90.00	-1,434.94	4,217.64	2,280.49	2,048.35	232.14	9.824		
15,100.00	7,870.00	7,834.00	7,834.00	119.17	135.74	90.00	-1,434.94	4,217.64	2,371.91	2,139.29	232.62	10.197		
15,200.00	7,870.00	7,834.00	7,834.00	119.81	135.74	90.00	-1,434.94	4,217.64	2,464.00	2,230.95	233.04	10.573		
15,300.00	7,870.00	7,834.00	7,834.00	120.48	135.74	90.00	-1,434.94	4,217.64	2,556.68	2,323.25	233.43	10.953		
15,400.00	7,870.00	7,834.00	7,834.00	121.19	135.74	90.00	-1,434.94	4,217.64	2,649.89	2,416.12	233.77	11.335		
15,500.00	7,870.00	7,834.00	7,834.00	121.93	135.74	90.00	-1,434.94	4,217.64	2,743.58	2,509.50	234.09	11.720		
15,600.00	7,870.00	7,834.00	7,834.00	122.71	135.74	90.00	-1,434.94	4,217.64	2,837.71	2,603.33	234.37	12.108		
15,700.00	7,870.00	7,834.00	7,834.00	123.52	135.74	90.00	-1,434.94	4,217.64	2,932.22	2,697.59	234.63	12.497		
15,800.00	7,870.00	7,834.00	7,834.00	124.36	135.74	90.00	-1,434.94	4,217.64	3,027.08	2,792.22	234.87	12.888		
15,900.00	7,870.00	7,834.00	7,834.00	125.23	135.74	90.00	-1,434.94	4,217.64	3,122.27	2,887.18	235.08	13.281		
16,000.00	7,870.00	7,834.00	7,834.00	126.14	135.74	90.00	-1,434.94	4,217.64	3,217.75	2,982.46	235.28	13.676		
16,100.00	7,870.00	7,834.00	7,834.00	127.07	135.74	90.00	-1,434.94	4,217.64	3,313.49	3,078.02	235.47	14.072		
16,200.00	7,870.00	7,834.00	7,834.00	128.04	135.74	90.00	-1,434.94	4,217.64	3,409.48	3,173.84	235.64	14.469		
16,300.00	7,870.00	7,834.00	7,834.00	129.04	135.74	90.00	-1,434.94	4,217.64	3,505.69	3,269.90	235.79	14.868		
16,400.00	7,870.00	7,834.00	7,834.00	130.06	135.74	90.00	-1,434.94	4,217.64	3,602.11	3,366.17	235.94	15.267		
16,500.00	7,870.00	7,834.00	7,834.00	131.11	135.74	90.00	-1,434.94	4,217.64	3,698.72	3,462.64	236.08	15.668		
16,600.00	7,870.00	7,834.00	7,834.00	132.19	135.74	90.00	-1,434.94	4,217.64	3,795.50	3,559.30	236.20	16.069		
16,700.00	7,870.00	7,834.00	7,834.00	133.29	135.74	90.00	-1,434.94	4,217.64	3,892.45	3,656.13	236.32	16.471		
16,800.00	7,870.00	7,834.00	7,834.00	134.42	135.74	90.00	-1,434.94	4,217.64	3,989.55	3,753.12	236.43	16.874		
16,900.00	7,870.00	7,834.00	7,834.00	135.57	135.74	90.00	-1,434.94	4,217.64	4,086.79	3,850.25	236.54	17.278		
17,000.00	7,870.00	7,834.00	7,834.00	136.75	135.74	90.00	-1,434.94	4,217.64	4,184.16	3,947.52	236.64	17.682		
17,100.00	7,870.00	7,834.00	7,834.00	137.94	135.74	90.00	-1,434.94	4,217.64	4,281.65	4,044.92	236.73	18.087		
17,200.00	7,870.00	7,834.00	7,834.00	139.16	135.74	90.00	-1,434.94	4,217.64	4,379.25	4,142.43	236.82	18.492		
17,300.00	7,870.00	7,834.00	7,834.00	140.39	135.74	90.00	-1,434.94	4,217.64	4,476.96	4,240.05	236.90	18.898		
17,400.00	7,870.00	7,834.00	7,834.00	141.65	135.74	90.00	-1,434.94	4,217.64	4,574.76	4,337.78	236.98	19.304		
17,500.00	7,870.00	7,834.00	7,834.00	142.92	135.74	90.00	-1,434.94	4,217.64	4,672.66	4,435.61	237.06	19.711		
17,600.00	7,870.00	7,834.00	7,834.00	144.21	135.74	90.00	-1,434.94	4,217.64	4,770.65	4,533.52	237.13	20.118		
17,700.00	7,870.00	7,834.00	7,834.00	145.52	135.74	90.00	-1,434.94	4,217.64	4,868.72	4,631.52	237.20	20.526		
17,800.00	7,870.00	7,834.00	7,834.00	146.84	135.74	90.00	-1,434.94	4,217.64	4,966.87	4,729.60	237.27	20.934		
17,900.00	7,870.00	7,834.00	7,834.00	148.18	135.74	90.00	-1,434.94	4,217.64	5,065.09	4,827.76	237.33	21.342		
18,000.00	7,870.00	7,834.00	7,834.00	149.54	135.74	90.00	-1,434.94	4,217.64	5,163.37	4,925.98	237.39	21.750		
18,100.00	7,870.00	7,834.00	7,834.00	150.90	135.74	90.00	-1,434.94	4,217.64	5,261.73	5,024.27	237.45	22.159		
18,200.00	7,870.00	7,834.00	7,834.00	152.28	135.74	90.00	-1,434.94	4,217.64	5,360.14	5,122.63	237.51	22.568		
18,300.00	7,870.00	7,834.00	7,834.00	153.67	135.74	90.00	-1,434.94	4,217.64	5,458.61	5,221.04	237.57	22.977		
18,400.00	7,870.00	7,834.00	7,834.00	155.07	135.74	90.00	-1,434.94	4,217.64	5,557.13	5,319.52	237.62	23.387		
18,500.00	7,870.00	7,834.00	7,834.00	156.49	135.74	90.00	-1,434.94	4,217.64	5,655.71	5,418.04	237.67	23.796		
18,600.00	7,870.00	7,834.00	7,834.00	157.91	135.74	90.00	-1,434.94	4,217.64	5,754.34	5,516.62	237.72	24.206		
18,700.00	7,870.00	7,834.00	7,834.00	159.35	135.74	90.00	-1,434.94	4,217.64	5,853.01	5,615.24	237.77	24.616		
18,800.00	7,870.00	7,834.00	7,834.00	160.79	135.74	90.00	-1,434.94	4,217.64	5,951.73	5,713.91	237.82	25.026		
18,900.00	7,870.00	7,834.00	7,834.00	162.25	135.74	90.00	-1,434.94	4,217.64	6,050.49	5,812.62	237.87	25.437		
19,000.00	7,870.00	7,834.00	7,834.00	163.71	135.74	90.00	-1,434.94	4,217.64	6,149.28	5,911.37	237.91	25.847		
19,100.00	7,870.00	7,834.00	7,834.00	165.18	135.74	90.00	-1,434.94	4,217.64	6,248.12	6,010.17	237.96	26.257		
19,200.00	7,870.00	7,834.00	7,834.00	166.66	135.74	90.00	-1,434.94	4,217.64	6,347.00	6,109.00	238.00	26.668		
19,300.00	7,870.00	7,834.00	7,834.00	168.15	135.74	90.00	-1,434.94	4,217.64	6,445.90	6,207.86	238.04	27.079		

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

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 33-23 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,870.00	7,834.00	7,834.00	169.65	135.74	90.00	-1,434.94	4,217.64	6,544.85	6,306.76	238.09	27.489	
19,500.00	7,870.00	7,834.00	7,834.00	171.15	135.74	90.00	-1,434.94	4,217.64	6,643.82	6,405.69	238.13	27.900	
19,600.00	7,870.00	7,834.00	7,834.00	172.66	135.74	90.00	-1,434.94	4,217.64	6,742.82	6,504.65	238.17	28.311	
19,700.00	7,870.00	7,834.00	7,834.00	174.18	135.74	90.00	-1,434.94	4,217.64	6,841.86	6,603.65	238.21	28.722	
19,800.00	7,870.00	7,834.00	7,834.00	175.70	135.74	90.00	-1,434.94	4,217.64	6,940.92	6,702.67	238.25	29.133	
19,889.26	7,870.00	7,834.00	7,834.00	177.06	135.74	90.00	-1,434.94	4,217.64	7,029.35	6,791.07	238.28	29.500	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	124.19	-3,055.97	4,497.96	5,438.07					
100.00	100.00	55.00	55.00	0.13	0.42	124.19	-3,055.97	4,497.96	5,437.88	5,437.33	0.56	9,766.363		
200.00	200.00	155.00	155.00	0.49	1.73	124.19	-3,055.97	4,497.96	5,437.88	5,435.66	2.22	2,448.642		
300.00	300.00	255.00	255.00	0.85	3.47	124.19	-3,055.97	4,497.96	5,437.88	5,433.56	4.32	1,257.437		
400.00	399.98	354.98	354.98	1.21	5.22	56.08	-3,055.97	4,497.96	5,436.91	5,430.49	6.42	846.396		
500.00	499.84	454.84	454.84	1.56	6.96	56.17	-3,055.97	4,497.96	5,433.99	5,425.47	8.52	637.619		
600.00	599.45	554.45	554.45	1.93	8.70	56.33	-3,055.97	4,497.96	5,429.13	5,418.51	10.63	510.955		
700.00	698.70	653.70	653.70	2.32	10.43	56.55	-3,055.97	4,497.96	5,422.36	5,409.63	12.73	425.807		
800.00	797.47	752.47	752.47	2.72	12.16	56.83	-3,055.97	4,497.96	5,413.70	5,398.84	14.85	364.532		
900.00	895.62	850.62	850.62	3.16	13.87	57.18	-3,055.97	4,497.96	5,403.17	5,386.19	16.98	318.239		
1,000.00	993.06	948.06	948.06	3.63	15.57	57.58	-3,055.97	4,497.96	5,390.82	5,371.70	19.12	281.963		
1,100.00	1,089.64	1,044.64	1,044.64	4.14	17.26	58.05	-3,055.97	4,497.96	5,376.69	5,355.41	21.28	252.718		
1,200.00	1,185.27	1,140.27	1,140.27	4.70	18.92	58.58	-3,055.97	4,497.96	5,360.84	5,337.38	23.45	228.599		
1,300.00	1,279.82	1,234.82	1,234.82	5.31	20.57	59.18	-3,055.97	4,497.96	5,343.31	5,317.67	25.65	208.336		
1,400.00	1,373.17	1,328.17	1,328.17	5.97	22.20	59.83	-3,055.97	4,497.96	5,324.19	5,296.32	27.87	191.048		
1,500.00	1,465.21	1,420.21	1,420.21	6.69	23.81	60.54	-3,055.97	4,497.96	5,303.54	5,273.42	30.12	176.107		
1,600.00	1,555.84	1,510.84	1,510.84	7.47	25.39	61.30	-3,055.97	4,497.96	5,281.43	5,249.04	32.39	163.052		
1,700.00	1,644.94	1,600.06	1,599.94	8.31	26.95	62.13	-3,055.97	4,497.96	5,257.96	5,223.26	34.70	151.527		
1,800.00	1,732.39	1,687.39	1,687.39	9.23	28.47	63.01	-3,055.97	4,497.96	5,233.22	5,196.18	37.04	141.298		
1,900.00	1,818.11	1,773.11	1,773.11	10.21	29.97	63.93	-3,055.97	4,497.96	5,207.29	5,167.88	39.41	132.131		
2,000.00	1,901.97	1,856.97	1,856.97	11.26	31.43	64.91	-3,055.97	4,497.96	5,180.30	5,138.48	41.82	123.873		
2,100.00	1,983.88	1,938.88	1,938.88	12.38	32.86	65.94	-3,055.97	4,497.96	5,152.34	5,108.07	44.27	116.395		
2,200.00	2,063.74	2,018.74	2,018.74	13.57	34.26	67.00	-3,055.97	4,497.96	5,123.52	5,076.77	46.75	109.593		
2,300.00	2,141.45	2,103.55	2,096.45	14.84	35.74	68.10	-3,055.97	4,497.96	5,093.98	5,044.58	49.40	103.121		
2,327.78	2,162.65	2,117.65	2,117.65	15.21	35.98	68.41	-3,055.97	4,497.96	5,085.66	5,035.68	49.98	101.749		
2,400.00	2,217.51	2,172.51	2,172.51	16.17	36.94	68.81	-3,055.97	4,497.96	5,064.15	5,012.31	51.83	97.701		
2,500.00	2,293.49	2,248.49	2,248.49	17.51	38.27	69.35	-3,055.97	4,497.96	5,034.92	4,980.50	54.42	92.520		
2,600.00	2,369.47	2,324.47	2,324.47	18.86	39.59	69.91	-3,055.97	4,497.96	5,006.38	4,949.34	57.03	87.784		
2,700.00	2,445.45	2,400.45	2,400.45	20.22	40.92	70.46	-3,055.97	4,497.96	4,978.51	4,918.85	59.66	83.444		
2,800.00	2,521.42	2,476.42	2,476.42	21.59	42.24	71.02	-3,055.97	4,497.96	4,951.35	4,889.03	62.31	79.458		
2,900.00	2,597.40	2,552.40	2,552.40	22.97	43.57	71.58	-3,055.97	4,497.96	4,924.89	4,859.91	64.98	75.787		
3,000.00	2,673.38	2,628.38	2,628.38	24.34	44.90	72.15	-3,055.97	4,497.96	4,899.15	4,831.49	67.67	72.398		
3,100.00	2,749.36	2,704.36	2,704.36	25.73	46.22	72.72	-3,055.97	4,497.96	4,874.15	4,803.78	70.37	69.265		
3,200.00	2,825.33	2,780.33	2,780.33	27.11	47.55	73.29	-3,055.97	4,497.96	4,849.89	4,776.80	73.08	66.360		
3,300.00	2,901.31	2,856.31	2,856.31	28.50	48.87	73.87	-3,055.97	4,497.96	4,826.38	4,750.57	75.81	63.662		
3,400.00	2,977.29	2,932.29	2,932.29	29.90	50.20	74.45	-3,055.97	4,497.96	4,803.63	4,725.08	78.55	61.152		
3,500.00	3,053.27	3,008.27	3,008.27	31.29	51.53	75.04	-3,055.97	4,497.96	4,781.67	4,700.36	81.30	58.813		
3,600.00	3,129.24	3,084.24	3,084.24	32.69	52.85	75.62	-3,055.97	4,497.96	4,760.49	4,676.42	84.06	56.629		
3,700.00	3,205.22	3,160.22	3,160.22	34.08	54.18	76.21	-3,055.97	4,497.96	4,740.10	4,653.27	86.83	54.588		
3,800.00	3,281.20	3,236.20	3,236.20	35.48	55.50	76.81	-3,055.97	4,497.96	4,720.53	4,630.91	89.61	52.677		
3,900.00	3,357.18	3,312.18	3,312.18	36.88	56.83	77.40	-3,055.97	4,497.96	4,701.77	4,609.37	92.40	50.885		
4,000.00	3,433.15	3,388.15	3,388.15	38.29	58.16	78.00	-3,055.97	4,497.96	4,683.84	4,588.65	95.19	49.203		
4,100.00	3,509.13	3,464.13	3,464.13	39.69	59.48	78.60	-3,055.97	4,497.96	4,666.75	4,568.75	97.99	47.623		
4,200.00	3,585.11	3,540.11	3,540.11	41.09	60.81	79.21	-3,055.97	4,497.96	4,650.50	4,549.70	100.80	46.137		
4,300.00	3,661.08	3,616.08	3,616.08	42.50	62.14	79.82	-3,055.97	4,497.96	4,635.11	4,531.50	103.61	44.738		
4,400.00	3,737.06	3,702.06	3,692.06	43.90	63.74	80.42	-3,055.97	4,497.96	4,620.58	4,513.88	106.70	43.306		
4,500.00	3,813.04	3,768.04	3,768.04	45.31	64.79	81.04	-3,055.97	4,497.96	4,606.92	4,497.69	109.23	42.175		
4,600.00	3,889.02	3,844.02	3,844.02	46.71	66.11	81.65	-3,055.97	4,497.96	4,594.14	4,482.10	112.05	41.001		
4,700.00	3,964.99	3,919.99	3,919.99	48.12	67.44	82.26	-3,055.97	4,497.96	4,582.25	4,467.39	114.87	39.892		
4,800.00	4,040.97	4,004.03	3,995.97	49.53	68.91	82.88	-3,055.97	4,497.96	4,571.26	4,453.44	117.82	38.798		
4,900.00	4,116.95	4,071.95	4,071.95	50.94	70.09	83.50	-3,055.97	4,497.96	4,561.16	4,440.67	120.50	37.853		
5,000.00	4,192.93	4,147.93	4,147.93	52.35	71.42	84.12	-3,055.97	4,497.96	4,551.97	4,428.66	123.31	36.915		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,268.90	4,223.90	4,223.90	53.76	72.74	84.74	-3,055.97	4,497.96	4,543.70	4,417.58	126.12	36.026		
5,200.00	4,344.88	4,300.12	4,299.88	55.16	74.07	85.36	-3,055.97	4,497.96	4,536.34	4,407.41	128.93	35.184		
5,300.00	4,420.86	4,375.86	4,375.86	56.57	75.40	85.99	-3,055.97	4,497.96	4,529.90	4,398.17	131.73	34.388		
5,400.00	4,496.84	4,451.84	4,451.84	57.98	76.72	86.61	-3,055.97	4,497.96	4,524.39	4,389.86	134.52	33.632		
5,500.00	4,572.81	4,527.81	4,527.81	59.39	78.05	87.24	-3,055.97	4,497.96	4,519.80	4,382.49	137.31	32.916		
5,600.00	4,648.79	4,603.79	4,603.79	60.81	79.37	87.86	-3,055.97	4,497.96	4,516.15	4,376.05	140.10	32.236		
5,700.00	4,724.77	4,679.77	4,679.77	62.22	80.70	88.49	-3,055.97	4,497.96	4,513.43	4,370.56	142.87	31.592		
5,800.00	4,800.74	4,755.74	4,755.74	63.63	82.03	89.12	-3,055.97	4,497.96	4,511.64	4,366.01	145.63	30.980		
5,900.00	4,876.72	4,831.72	4,831.72	65.04	83.35	89.75	-3,055.97	4,497.96	4,510.80	4,362.41	148.39	30.399		
5,940.44	4,907.45	4,862.45	4,862.45	65.61	83.89	90.00	-3,055.97	4,497.96	4,510.72	4,361.22	149.50	30.173		
6,000.00	4,952.70	4,907.70	4,907.70	66.45	84.68	90.37	-3,055.97	4,497.96	4,510.89	4,359.76	151.13	29.848		
6,100.00	5,028.68	4,983.68	4,983.68	67.86	86.00	91.00	-3,055.97	4,497.96	4,511.91	4,358.05	153.86	29.325		
6,200.00	5,104.65	5,059.65	5,059.65	69.27	87.33	91.63	-3,055.97	4,497.96	4,513.88	4,357.30	156.58	28.828		
6,300.00	5,180.63	5,135.63	5,135.63	70.69	88.66	92.26	-3,055.97	4,497.96	4,516.77	4,357.49	159.28	28.357		
6,400.00	5,256.61	5,211.61	5,211.61	72.10	89.98	92.88	-3,055.97	4,497.96	4,520.60	4,358.63	161.97	27.910		
6,500.00	5,332.59	5,287.59	5,287.59	73.51	91.31	93.51	-3,055.97	4,497.96	4,525.37	4,360.72	164.65	27.485		
6,600.00	5,408.56	5,363.56	5,363.56	74.92	92.63	94.13	-3,055.97	4,497.96	4,531.06	4,363.75	167.31	27.082		
6,700.00	5,484.54	5,439.54	5,439.54	76.34	93.96	94.76	-3,055.97	4,497.96	4,537.67	4,367.72	169.95	26.700		
6,800.00	5,560.52	5,515.52	5,515.52	77.75	95.29	95.38	-3,055.97	4,497.96	4,545.21	4,372.63	172.58	26.337		
6,900.00	5,636.50	5,608.50	5,591.50	79.16	96.91	96.00	-3,055.97	4,497.96	4,553.66	4,378.17	175.49	25.949		
7,000.00	5,712.47	5,667.47	5,667.47	80.57	97.94	96.62	-3,055.97	4,497.96	4,563.02	4,385.24	177.78	25.666		
7,100.00	5,788.45	5,743.45	5,743.45	81.99	99.26	97.24	-3,055.97	4,497.96	4,573.29	4,392.93	180.36	25.357		
7,200.00	5,864.43	5,819.43	5,819.43	83.40	100.59	97.85	-3,055.97	4,497.96	4,584.46	4,401.54	182.91	25.063		
7,300.00	5,940.40	5,904.60	5,895.40	84.81	102.08	98.47	-3,055.97	4,497.96	4,596.52	4,410.91	185.61	24.764		
7,400.00	6,016.38	5,971.38	5,971.38	86.23	103.24	99.08	-3,055.97	4,497.96	4,609.46	4,421.50	187.97	24.522		
7,500.00	6,092.36	6,047.36	6,047.36	87.64	104.57	99.69	-3,055.97	4,497.96	4,623.29	4,432.82	190.47	24.273		
7,600.00	6,168.34	6,123.34	6,123.34	89.05	105.90	100.30	-3,055.97	4,497.96	4,637.98	4,445.04	192.95	24.038		
7,700.00	6,244.31	6,200.69	6,199.31	90.47	107.25	100.91	-3,055.97	4,497.96	4,653.54	4,458.11	195.43	23.812		
7,800.00	6,320.29	6,275.29	6,275.29	91.88	108.55	101.51	-3,055.97	4,497.96	4,669.95	4,472.11	197.84	23.604		
7,900.00	6,396.27	6,351.27	6,351.27	93.30	109.87	102.11	-3,055.97	4,497.96	4,687.20	4,486.94	200.26	23.406		
8,000.00	6,472.25	6,427.25	6,427.25	94.71	111.20	102.71	-3,055.97	4,497.96	4,705.29	4,502.64	202.66	23.218		
8,100.00	6,548.22	6,503.22	6,503.22	96.12	112.53	103.31	-3,055.97	4,497.96	4,724.21	4,519.17	205.03	23.041		
8,200.00	6,624.20	6,579.20	6,579.20	97.54	113.85	103.90	-3,055.97	4,497.96	4,743.94	4,536.55	207.39	22.875		
8,300.00	6,700.18	6,655.18	6,655.18	98.95	115.18	104.49	-3,055.97	4,497.96	4,764.48	4,554.75	209.72	22.718		
8,400.00	6,776.16	6,731.16	6,731.16	100.37	116.50	105.08	-3,055.97	4,497.96	4,785.81	4,573.77	212.04	22.570		
8,500.00	6,852.13	6,807.13	6,807.13	101.78	117.83	105.66	-3,055.97	4,497.96	4,807.92	4,593.59	214.33	22.432		
8,600.00	6,928.11	6,883.11	6,883.11	103.20	119.16	106.24	-3,055.97	4,497.96	4,830.81	4,614.21	216.61	22.302		
8,700.00	7,004.09	6,959.09	6,959.09	104.61	120.48	106.82	-3,055.97	4,497.96	4,854.47	4,635.61	218.86	22.181		
8,800.00	7,080.06	7,035.06	7,035.06	106.02	121.81	107.39	-3,055.97	4,497.96	4,878.87	4,657.78	221.09	22.067		
8,900.00	7,156.04	7,111.04	7,111.04	107.44	123.13	107.96	-3,055.97	4,497.96	4,904.02	4,680.71	223.31	21.961		
9,000.00	7,232.02	7,187.02	7,187.02	108.85	124.46	108.52	-3,055.97	4,497.96	4,929.89	4,704.39	225.50	21.862		
9,104.68	7,311.55	7,266.55	7,266.55	110.33	125.85	109.11	-3,055.97	4,497.96	4,957.75	4,729.97	227.78	21.766		
9,150.00	7,346.29	7,301.29	7,301.29	110.97	126.45	104.09	-3,055.97	4,497.96	4,968.31	4,739.55	228.77	21.718		
9,200.00	7,385.15	7,340.15	7,340.15	111.65	127.13	98.24	-3,055.97	4,497.96	4,976.07	4,746.20	229.87	21.647		
9,250.00	7,424.29	7,379.29	7,379.29	112.31	127.82	92.22	-3,055.97	4,497.96	4,979.69	4,748.70	230.99	21.558		
9,300.00	7,463.40	7,418.40	7,418.40	112.93	128.50	86.24	-3,055.97	4,497.96	4,979.14	4,747.05	232.10	21.453		
9,350.00	7,502.19	7,457.19	7,457.19	113.51	129.18	80.50	-3,055.97	4,497.96	4,974.45	4,741.26	233.19	21.332		
9,400.00	7,540.36	7,504.64	7,495.36	114.04	130.00	75.15	-3,055.97	4,497.96	4,965.63	4,731.22	234.41	21.183		
9,450.00	7,577.62	7,532.62	7,532.62	114.53	130.49	70.31	-3,055.97	4,497.96	4,952.76	4,717.48	235.28	21.050		
9,500.00	7,613.70	7,568.70	7,568.70	114.95	131.12	66.05	-3,055.97	4,497.96	4,935.92	4,699.66	236.26	20.892		
9,550.00	7,648.30	7,603.30	7,603.30	115.32	131.73	62.39	-3,055.97	4,497.96	4,915.24	4,678.05	237.19	20.723		
9,600.00	7,681.18	7,636.18	7,636.18	115.63	132.30	59.32	-3,055.97	4,497.96	4,890.85	4,652.79	238.06	20.545		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,650.00	7,712.08	7,667.08	7,667.08	115.88	132.84	56.85	-3,055.97	4,497.96	4,862.93	4,624.07	238.86	20.359		
9,700.00	7,740.76	7,704.24	7,695.76	116.08	133.49	54.93	-3,055.97	4,497.96	4,831.66	4,591.92	239.74	20.154		
9,750.00	7,767.01	7,722.01	7,722.01	116.23	133.80	53.58	-3,055.97	4,497.96	4,797.27	4,557.02	240.25	19.968		
9,800.00	7,790.63	7,745.63	7,745.63	116.33	134.21	52.79	-3,055.97	4,497.96	4,759.99	4,519.16	240.83	19.765		
9,850.00	7,811.44	7,766.44	7,766.44	116.38	134.57	52.63	-3,055.97	4,497.96	4,720.08	4,478.75	241.33	19.559		
9,900.00	7,829.28	7,784.28	7,784.28	116.38	134.88	53.20	-3,055.97	4,497.96	4,677.83	4,436.08	241.75	19.350		
9,950.00	7,844.01	7,800.99	7,799.01	116.35	135.18	54.71	-3,055.97	4,497.96	4,633.52	4,391.39	242.13	19.137		
10,000.00	7,855.52	7,810.52	7,810.52	116.28	135.34	57.60	-3,055.97	4,497.96	4,587.48	4,345.12	242.36	18.929		
10,050.00	7,863.72	7,818.72	7,818.72	116.18	135.49	62.79	-3,055.97	4,497.96	4,540.02	4,297.48	242.55	18.718		
10,100.00	7,868.56	7,823.56	7,823.56	116.06	135.57	72.49	-3,055.97	4,497.96	4,491.50	4,248.84	242.66	18.509		
10,145.94	7,870.00	7,825.00	7,825.00	115.92	135.59	90.00	-3,055.97	4,497.96	4,446.27	4,203.57	242.70	18.320		
10,200.00	7,870.00	7,825.00	7,825.00	115.76	135.59	90.00	-3,055.97	4,497.96	4,392.81	4,150.09	242.72	18.098		
10,300.00	7,870.00	7,825.00	7,825.00	115.46	135.59	90.00	-3,055.97	4,497.96	4,293.96	4,051.21	242.75	17.689		
10,400.00	7,870.00	7,825.00	7,825.00	115.18	135.59	90.00	-3,055.97	4,497.96	4,195.17	3,952.38	242.78	17.279		
10,500.00	7,870.00	7,825.00	7,825.00	114.91	135.59	90.00	-3,055.97	4,497.96	4,096.43	3,853.61	242.82	16.870		
10,600.00	7,870.00	7,825.00	7,825.00	114.65	135.59	90.00	-3,055.97	4,497.96	3,997.75	3,754.90	242.85	16.462		
10,700.00	7,870.00	7,825.00	7,825.00	114.41	135.59	90.00	-3,055.97	4,497.96	3,899.15	3,656.26	242.89	16.053		
10,800.00	7,870.00	7,825.00	7,825.00	114.17	135.59	90.00	-3,055.97	4,497.96	3,800.61	3,557.69	242.92	15.645		
10,900.00	7,870.00	7,825.00	7,825.00	113.95	135.59	90.00	-3,055.97	4,497.96	3,702.16	3,459.20	242.96	15.238		
11,000.00	7,870.00	7,825.00	7,825.00	113.75	135.59	90.00	-3,055.97	4,497.96	3,603.79	3,360.79	243.00	14.830		
11,100.00	7,870.00	7,825.00	7,825.00	113.55	135.59	90.00	-3,055.97	4,497.96	3,505.51	3,262.47	243.04	14.424		
11,200.00	7,870.00	7,825.00	7,825.00	113.37	135.59	90.00	-3,055.97	4,497.96	3,407.33	3,164.25	243.08	14.017		
11,300.00	7,870.00	7,825.00	7,825.00	113.20	135.59	90.00	-3,055.97	4,497.96	3,309.26	3,066.14	243.12	13.612		
11,400.00	7,870.00	7,825.00	7,825.00	113.04	135.59	90.00	-3,055.97	4,497.96	3,211.31	2,968.15	243.16	13.206		
11,500.00	7,870.00	7,825.00	7,825.00	112.89	135.59	90.00	-3,055.97	4,497.96	3,113.49	2,870.29	243.21	12.802		
11,600.00	7,870.00	7,825.00	7,825.00	112.76	135.59	90.00	-3,055.97	4,497.96	3,015.82	2,772.57	243.25	12.398		
11,700.00	7,870.00	7,825.00	7,825.00	112.64	135.59	90.00	-3,055.97	4,497.96	2,918.30	2,675.00	243.29	11.995		
11,800.00	7,870.00	7,825.00	7,825.00	112.53	135.59	90.00	-3,055.97	4,497.96	2,820.95	2,577.62	243.34	11.593		
11,900.00	7,870.00	7,825.00	7,825.00	112.44	135.59	90.00	-3,055.97	4,497.96	2,723.80	2,480.42	243.38	11.192		
12,000.00	7,870.00	7,825.00	7,825.00	112.36	135.59	90.00	-3,055.97	4,497.96	2,626.86	2,383.44	243.42	10.792		
12,100.00	7,870.00	7,825.00	7,825.00	112.29	135.59	90.00	-3,055.97	4,497.96	2,530.16	2,286.70	243.46	10.393		
12,200.00	7,870.00	7,825.00	7,825.00	112.24	135.59	90.00	-3,055.97	4,497.96	2,433.72	2,190.23	243.49	9.995		
12,300.00	7,870.00	7,825.00	7,825.00	112.20	135.59	90.00	-3,055.97	4,497.96	2,337.59	2,094.07	243.52	9.599		
12,400.00	7,870.00	7,825.00	7,825.00	112.17	135.59	90.00	-3,055.97	4,497.96	2,241.79	1,998.24	243.55	9.205		
12,500.00	7,870.00	7,825.00	7,825.00	112.16	135.59	90.00	-3,055.97	4,497.96	2,146.38	1,902.81	243.56	8.812		
12,600.00	7,870.00	7,825.00	7,825.00	112.17	135.59	90.00	-3,055.97	4,497.96	2,051.40	1,807.83	243.57	8.422		
12,700.00	7,870.00	7,825.00	7,825.00	112.19	135.59	90.00	-3,055.97	4,497.96	1,956.93	1,713.36	243.56	8.035		
12,800.00	7,870.00	7,825.00	7,825.00	112.23	135.59	90.00	-3,055.97	4,497.96	1,863.03	1,619.49	243.53	7.650		
12,900.00	7,870.00	7,825.00	7,825.00	112.28	135.59	90.00	-3,055.97	4,497.96	1,769.80	1,526.31	243.48	7.269		
13,000.00	7,870.00	7,825.00	7,825.00	112.36	135.59	90.00	-3,055.97	4,497.96	1,677.35	1,433.95	243.40	6.891		
13,100.00	7,870.00	7,825.00	7,825.00	112.45	135.59	90.00	-3,055.97	4,497.96	1,585.81	1,342.54	243.27	6.519		
13,200.00	7,870.00	7,825.00	7,825.00	112.56	135.59	90.00	-3,055.97	4,497.96	1,495.36	1,252.28	243.09	6.152		
13,300.00	7,870.00	7,825.00	7,825.00	112.68	135.59	90.00	-3,055.97	4,497.96	1,406.21	1,163.38	242.83	5.791		
13,400.00	7,870.00	7,825.00	7,825.00	112.83	135.59	90.00	-3,055.97	4,497.96	1,318.61	1,076.14	242.46	5.438		
13,500.00	7,870.00	7,825.00	7,825.00	113.00	135.59	90.00	-3,055.97	4,497.96	1,232.90	990.93	241.97	5.095		
13,600.00	7,870.00	7,825.00	7,825.00	113.19	135.59	90.00	-3,055.97	4,497.96	1,149.50	908.21	241.29	4.764		
13,700.00	7,870.00	7,825.00	7,825.00	113.40	135.59	90.00	-3,055.97	4,497.96	1,068.95	828.59	240.36	4.447		
13,800.00	7,870.00	7,825.00	7,825.00	113.63	135.59	90.00	-3,055.97	4,497.96	991.95	752.83	239.12	4.148		
13,900.00	7,870.00	7,825.00	7,825.00	113.89	135.59	90.00	-3,055.97	4,497.96	919.39	681.95	237.44	3.872		
14,000.00	7,870.00	7,825.00	7,825.00	114.18	135.59	90.00	-3,055.97	4,497.96	852.40	617.18	235.22	3.624		
14,100.00	7,870.00	7,825.00	7,825.00	114.48	135.59	90.00	-3,055.97	4,497.96	792.40	560.06	232.34	3.411		
14,200.00	7,870.00	7,825.00	7,825.00	114.82	135.59	90.00	-3,055.97	4,497.96	741.09	512.38	228.71	3.240		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,300.00	7,870.00	7,825.00	7,825.00	115.18	135.59	90.00	-3,055.97	4,497.96	700.37	475.98	224.39	3.121		
14,400.00	7,870.00	7,825.00	7,825.00	115.57	135.59	90.00	-3,055.97	4,497.96	672.18	452.50	219.68	3.060		
14,500.00	7,870.00	7,825.00	7,825.00	115.99	135.59	90.00	-3,055.97	4,497.96	658.13	442.97	215.17	3.059 ES, SF		
14,543.45	7,870.00	7,825.00	7,825.00	116.18	135.59	90.00	-3,055.97	4,497.96	656.70	443.23	213.47	3.076 CC		
14,600.00	7,870.00	7,825.00	7,825.00	116.44	135.59	90.00	-3,055.97	4,497.96	659.13	447.50	211.63	3.115		
14,700.00	7,870.00	7,825.00	7,825.00	116.92	135.59	90.00	-3,055.97	4,497.96	675.10	465.41	209.69	3.220		
14,800.00	7,870.00	7,825.00	7,825.00	117.44	135.59	90.00	-3,055.97	4,497.96	705.03	495.55	209.48	3.366		
14,900.00	7,870.00	7,825.00	7,825.00	117.98	135.59	90.00	-3,055.97	4,497.96	747.25	536.59	210.66	3.547		
15,000.00	7,870.00	7,825.00	7,825.00	118.56	135.59	90.00	-3,055.97	4,497.96	799.81	587.13	212.68	3.761		
15,100.00	7,870.00	7,825.00	7,825.00	119.17	135.59	90.00	-3,055.97	4,497.96	860.81	645.77	215.04	4.003		
15,200.00	7,870.00	7,825.00	7,825.00	119.81	135.59	90.00	-3,055.97	4,497.96	928.61	711.18	217.43	4.271		
15,300.00	7,870.00	7,825.00	7,825.00	120.48	135.59	90.00	-3,055.97	4,497.96	1,001.81	782.13	219.67	4.560		
15,400.00	7,870.00	7,825.00	7,825.00	121.19	135.59	90.00	-3,055.97	4,497.96	1,079.32	857.62	221.70	4.868		
15,500.00	7,870.00	7,825.00	7,825.00	121.93	135.59	90.00	-3,055.97	4,497.96	1,160.28	936.78	223.49	5.192		
15,600.00	7,870.00	7,825.00	7,825.00	122.71	135.59	90.00	-3,055.97	4,497.96	1,244.01	1,018.94	225.06	5.527		
15,700.00	7,870.00	7,825.00	7,825.00	123.52	135.59	90.00	-3,055.97	4,497.96	1,329.99	1,103.55	226.44	5.874		
15,800.00	7,870.00	7,825.00	7,825.00	124.36	135.59	90.00	-3,055.97	4,497.96	1,417.81	1,190.17	227.64	6.228		
15,900.00	7,870.00	7,825.00	7,825.00	125.23	135.59	90.00	-3,055.97	4,497.96	1,507.14	1,278.46	228.68	6.590		
16,000.00	7,870.00	7,825.00	7,825.00	126.14	135.59	90.00	-3,055.97	4,497.96	1,597.75	1,368.14	229.61	6.959		
16,100.00	7,870.00	7,825.00	7,825.00	127.07	135.59	90.00	-3,055.97	4,497.96	1,689.41	1,458.99	230.42	7.332		
16,200.00	7,870.00	7,825.00	7,825.00	128.04	135.59	90.00	-3,055.97	4,497.96	1,781.97	1,550.83	231.14	7.709		
16,300.00	7,870.00	7,825.00	7,825.00	129.04	135.59	90.00	-3,055.97	4,497.96	1,875.29	1,643.51	231.78	8.091		
16,400.00	7,870.00	7,825.00	7,825.00	130.06	135.59	90.00	-3,055.97	4,497.96	1,969.27	1,736.92	232.36	8.475		
16,500.00	7,870.00	7,825.00	7,825.00	131.11	135.59	90.00	-3,055.97	4,497.96	2,063.82	1,830.95	232.87	8.862		
16,600.00	7,870.00	7,825.00	7,825.00	132.19	135.59	90.00	-3,055.97	4,497.96	2,158.85	1,925.52	233.34	9.252		
16,700.00	7,870.00	7,825.00	7,825.00	133.29	135.59	90.00	-3,055.97	4,497.96	2,254.32	2,020.56	233.76	9.644		
16,800.00	7,870.00	7,825.00	7,825.00	134.42	135.59	90.00	-3,055.97	4,497.96	2,350.16	2,116.02	234.14	10.037		
16,900.00	7,870.00	7,825.00	7,825.00	135.57	135.59	90.00	-3,055.97	4,497.96	2,446.34	2,211.85	234.50	10.432		
17,000.00	7,870.00	7,825.00	7,825.00	136.75	135.59	90.00	-3,055.97	4,497.96	2,542.81	2,307.99	234.82	10.829		
17,100.00	7,870.00	7,825.00	7,825.00	137.94	135.59	90.00	-3,055.97	4,497.96	2,639.55	2,404.43	235.11	11.227		
17,200.00	7,870.00	7,825.00	7,825.00	139.16	135.59	90.00	-3,055.97	4,497.96	2,736.51	2,501.13	235.39	11.626		
17,300.00	7,870.00	7,825.00	7,825.00	140.39	135.59	90.00	-3,055.97	4,497.96	2,833.69	2,598.05	235.64	12.025		
17,400.00	7,870.00	7,825.00	7,825.00	141.65	135.59	90.00	-3,055.97	4,497.96	2,931.06	2,695.19	235.88	12.426		
17,500.00	7,870.00	7,825.00	7,825.00	142.92	135.59	90.00	-3,055.97	4,497.96	3,028.60	2,792.51	236.10	12.828		
17,600.00	7,870.00	7,825.00	7,825.00	144.21	135.59	90.00	-3,055.97	4,497.96	3,126.30	2,890.00	236.30	13.230		
17,700.00	7,870.00	7,825.00	7,825.00	145.52	135.59	90.00	-3,055.97	4,497.96	3,224.14	2,987.64	236.50	13.633		
17,800.00	7,870.00	7,825.00	7,825.00	146.84	135.59	90.00	-3,055.97	4,497.96	3,322.10	3,085.43	236.68	14.036		
17,900.00	7,870.00	7,825.00	7,825.00	148.18	135.59	90.00	-3,055.97	4,497.96	3,420.19	3,183.34	236.85	14.440		
18,000.00	7,870.00	7,825.00	7,825.00	149.54	135.59	90.00	-3,055.97	4,497.96	3,518.38	3,281.37	237.01	14.845		
18,100.00	7,870.00	7,825.00	7,825.00	150.90	135.59	90.00	-3,055.97	4,497.96	3,616.67	3,379.51	237.16	15.250		
18,200.00	7,870.00	7,825.00	7,825.00	152.28	135.59	90.00	-3,055.97	4,497.96	3,715.05	3,477.75	237.31	15.655		
18,300.00	7,870.00	7,825.00	7,825.00	153.67	135.59	90.00	-3,055.97	4,497.96	3,813.52	3,576.08	237.44	16.061		
18,400.00	7,870.00	7,825.00	7,825.00	155.07	135.59	90.00	-3,055.97	4,497.96	3,912.06	3,674.49	237.57	16.467		
18,500.00	7,870.00	7,825.00	7,825.00	156.49	135.59	90.00	-3,055.97	4,497.96	4,010.68	3,772.98	237.70	16.873		
18,600.00	7,870.00	7,825.00	7,825.00	157.91	135.59	90.00	-3,055.97	4,497.96	4,109.36	3,871.54	237.82	17.279		
18,700.00	7,870.00	7,825.00	7,825.00	159.35	135.59	90.00	-3,055.97	4,497.96	4,208.11	3,970.18	237.93	17.686		
18,800.00	7,870.00	7,825.00	7,825.00	160.79	135.59	90.00	-3,055.97	4,497.96	4,306.91	4,068.87	238.04	18.093		
18,900.00	7,870.00	7,825.00	7,825.00	162.25	135.59	90.00	-3,055.97	4,497.96	4,405.77	4,167.62	238.15	18.500		
19,000.00	7,870.00	7,825.00	7,825.00	163.71	135.59	90.00	-3,055.97	4,497.96	4,504.67	4,266.43	238.25	18.908		
19,100.00	7,870.00	7,825.00	7,825.00	165.18	135.59	90.00	-3,055.97	4,497.96	4,603.63	4,365.28	238.34	19.315		
19,200.00	7,870.00	7,825.00	7,825.00	166.66	135.59	90.00	-3,055.97	4,497.96	4,702.63	4,464.19	238.44	19.723		
19,300.00	7,870.00	7,825.00	7,825.00	168.15	135.59	90.00	-3,055.97	4,497.96	4,801.67	4,563.14	238.53	20.130		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,400.00	7,870.00	7,825.00	7,825.00	169.65	135.59	90.00	-3,055.97	4,497.96	4,900.75	4,662.13	238.62	20.538	
19,500.00	7,870.00	7,825.00	7,825.00	171.15	135.59	90.00	-3,055.97	4,497.96	4,999.86	4,761.16	238.70	20.946	
19,600.00	7,870.00	7,825.00	7,825.00	172.66	135.59	90.00	-3,055.97	4,497.96	5,099.02	4,860.23	238.79	21.354	
19,700.00	7,870.00	7,825.00	7,825.00	174.18	135.59	90.00	-3,055.97	4,497.96	5,198.20	4,959.33	238.87	21.762	
19,800.00	7,870.00	7,825.00	7,825.00	175.70	135.59	90.00	-3,055.97	4,497.96	5,297.41	5,058.47	238.94	22.170	
19,889.26	7,870.00	7,825.00	7,825.00	177.06	135.59	90.00	-3,055.97	4,497.96	5,385.99	5,146.98	239.01	22.534	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	105.16	-1,580.33	5,833.39	6,043.89					
100.00	100.00	47.00	47.00	0.13	0.36	105.16	-1,580.33	5,833.39	6,043.66	6,043.16	0.50	N/A		
200.00	200.00	147.00	147.00	0.49	1.59	105.16	-1,580.33	5,833.39	6,043.66	6,041.58	2.08	2,904.001		
300.00	300.00	247.00	247.00	0.85	3.33	105.16	-1,580.33	5,833.39	6,043.66	6,039.48	4.18	1,444.142		
400.00	399.98	346.98	346.98	1.21	5.08	37.04	-1,580.33	5,833.39	6,042.27	6,035.98	6.28	961.510		
500.00	499.84	446.84	446.84	1.56	6.82	37.12	-1,580.33	5,833.39	6,038.09	6,029.71	8.38	720.255		
600.00	599.45	546.45	546.45	1.93	8.56	37.25	-1,580.33	5,833.39	6,031.14	6,020.65	10.48	575.252		
700.00	698.70	645.70	645.70	2.32	10.29	37.44	-1,580.33	5,833.39	6,021.42	6,008.83	12.59	478.403		
800.00	797.47	744.47	744.47	2.72	12.02	37.69	-1,580.33	5,833.39	6,008.96	5,994.27	14.69	409.053		
900.00	895.62	842.62	842.62	3.16	13.73	37.99	-1,580.33	5,833.39	5,993.79	5,977.00	16.80	356.875		
1,000.00	993.06	940.06	940.06	3.63	15.43	38.34	-1,580.33	5,833.39	5,975.93	5,957.03	18.90	316.134		
1,100.00	1,089.64	1,036.64	1,036.64	4.14	17.12	38.76	-1,580.33	5,833.39	5,955.42	5,934.40	21.01	283.393		
1,200.00	1,185.27	1,132.27	1,132.27	4.70	18.78	39.23	-1,580.33	5,833.39	5,932.30	5,909.17	23.13	256.466		
1,300.00	1,279.82	1,226.82	1,226.82	5.31	20.43	39.76	-1,580.33	5,833.39	5,906.62	5,881.37	25.25	233.898		
1,400.00	1,373.17	1,320.17	1,320.17	5.97	22.06	40.36	-1,580.33	5,833.39	5,878.43	5,851.05	27.38	214.682		
1,500.00	1,465.21	1,412.21	1,412.21	6.69	23.67	41.02	-1,580.33	5,833.39	5,847.79	5,818.27	29.52	198.100		
1,600.00	1,555.84	1,502.84	1,502.84	7.47	25.25	41.75	-1,580.33	5,833.39	5,814.77	5,783.10	31.67	183.626		
1,700.00	1,644.94	1,608.06	1,591.94	8.31	27.09	42.54	-1,580.33	5,833.39	5,779.42	5,745.32	34.11	169.457		
1,800.00	1,732.39	1,679.39	1,679.39	9.23	28.33	43.40	-1,580.33	5,833.39	5,741.84	5,705.84	35.99	159.521		
1,900.00	1,818.11	1,765.11	1,765.11	10.21	29.83	44.34	-1,580.33	5,833.39	5,702.09	5,663.91	38.18	149.354		
2,000.00	1,901.97	1,848.97	1,848.97	11.26	31.29	45.34	-1,580.33	5,833.39	5,660.26	5,619.88	40.38	140.184		
2,100.00	1,983.88	1,930.88	1,930.88	12.38	32.72	46.43	-1,580.33	5,833.39	5,616.44	5,573.85	42.59	131.863		
2,200.00	2,063.74	2,010.74	2,010.74	13.57	34.12	47.58	-1,580.33	5,833.39	5,570.74	5,525.91	44.83	124.273		
2,300.00	2,141.45	2,088.45	2,088.45	14.84	35.47	48.81	-1,580.33	5,833.39	5,523.23	5,476.15	47.08	117.317		
2,327.78	2,162.65	2,109.65	2,109.65	15.21	35.84	49.17	-1,580.33	5,833.39	5,509.73	5,462.02	47.71	115.483		
2,400.00	2,217.51	2,164.51	2,164.51	16.17	36.80	49.49	-1,580.33	5,833.39	5,474.56	5,425.20	49.35	110.925		
2,500.00	2,293.49	2,240.49	2,240.49	17.51	38.13	49.95	-1,580.33	5,833.39	5,426.15	5,374.49	51.65	105.048		
2,600.00	2,369.47	2,316.47	2,316.47	18.86	39.45	50.41	-1,580.33	5,833.39	5,378.09	5,324.10	53.98	99.629		
2,700.00	2,445.45	2,407.55	2,392.45	20.22	41.04	50.87	-1,580.33	5,833.39	5,330.38	5,273.79	56.60	94.182		
2,800.00	2,521.42	2,468.42	2,468.42	21.59	42.10	51.34	-1,580.33	5,833.39	5,283.05	5,224.34	58.71	89.987		
2,900.00	2,597.40	2,544.40	2,544.40	22.97	43.43	51.82	-1,580.33	5,833.39	5,236.10	5,174.99	61.11	85.687		
3,000.00	2,673.38	2,620.38	2,620.38	24.34	44.76	52.30	-1,580.33	5,833.39	5,189.54	5,126.01	63.53	81.689		
3,100.00	2,749.36	2,703.64	2,696.36	25.73	46.21	52.79	-1,580.33	5,833.39	5,143.37	5,077.28	66.10	77.815		
3,200.00	2,825.33	2,772.33	2,772.33	27.11	47.41	53.29	-1,580.33	5,833.39	5,097.62	5,029.19	68.43	74.491		
3,300.00	2,901.31	2,848.31	2,848.31	28.50	48.74	53.79	-1,580.33	5,833.39	5,052.30	4,981.38	70.92	71.243		
3,400.00	2,977.29	2,924.29	2,924.29	29.90	50.06	54.30	-1,580.33	5,833.39	5,007.40	4,933.98	73.42	68.201		
3,500.00	3,053.27	3,000.27	3,000.27	31.29	51.39	54.82	-1,580.33	5,833.39	4,962.95	4,887.01	75.95	65.349		
3,600.00	3,129.24	3,076.24	3,076.24	32.69	52.71	55.34	-1,580.33	5,833.39	4,918.96	4,840.47	78.49	62.670		
3,700.00	3,205.22	3,152.22	3,152.22	34.08	54.04	55.87	-1,580.33	5,833.39	4,875.44	4,794.39	81.05	60.151		
3,800.00	3,281.20	3,228.20	3,228.20	35.48	55.37	56.41	-1,580.33	5,833.39	4,832.40	4,748.76	83.64	57.778		
3,900.00	3,357.18	3,304.18	3,304.18	36.88	56.69	56.95	-1,580.33	5,833.39	4,789.86	4,703.62	86.24	55.540		
4,000.00	3,433.15	3,380.15	3,380.15	38.29	58.02	57.50	-1,580.33	5,833.39	4,747.83	4,658.96	88.87	53.427		
4,100.00	3,509.13	3,456.13	3,456.13	39.69	59.34	58.06	-1,580.33	5,833.39	4,706.32	4,614.81	91.51	51.430		
4,200.00	3,585.11	3,532.11	3,532.11	41.09	60.67	58.62	-1,580.33	5,833.39	4,665.34	4,571.17	94.17	49.541		
4,300.00	3,661.08	3,608.08	3,608.08	42.50	62.00	59.19	-1,580.33	5,833.39	4,624.92	4,528.07	96.85	47.752		
4,400.00	3,737.06	3,684.06	3,684.06	43.90	63.32	59.77	-1,580.33	5,833.39	4,585.07	4,485.51	99.55	46.056		
4,500.00	3,813.04	3,760.04	3,760.04	45.31	64.65	60.35	-1,580.33	5,833.39	4,545.79	4,443.51	102.27	44.447		
4,600.00	3,889.02	3,836.02	3,836.02	46.71	65.97	60.95	-1,580.33	5,833.39	4,507.11	4,402.09	105.01	42.919		
4,700.00	3,964.99	3,911.99	3,911.99	48.12	67.30	61.54	-1,580.33	5,833.39	4,469.04	4,361.27	107.77	41.467		
4,800.00	4,040.97	3,987.97	3,987.97	49.53	68.63	62.15	-1,580.33	5,833.39	4,431.60	4,321.05	110.55	40.087		
4,900.00	4,116.95	4,063.95	4,063.95	50.94	69.95	62.76	-1,580.33	5,833.39	4,394.80	4,281.45	113.34	38.774		
5,000.00	4,192.93	4,139.93	4,139.93	52.35	71.28	63.38	-1,580.33	5,833.39	4,358.66	4,242.50	116.16	37.524		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,268.90	4,215.90	4,215.90	53.76	72.60	64.00	-1,580.33	5,833.39	4,323.20	4,204.21	118.99	36.333		
5,200.00	4,344.88	4,308.12	4,291.88	55.16	74.21	64.64	-1,580.33	5,833.39	4,288.42	4,166.30	122.12	35.116		
5,300.00	4,420.86	4,367.86	4,367.86	56.57	75.26	65.27	-1,580.33	5,833.39	4,254.36	4,129.66	124.70	34.116		
5,400.00	4,496.84	4,443.84	4,443.84	57.98	76.58	65.92	-1,580.33	5,833.39	4,221.03	4,093.45	127.58	33.085		
5,500.00	4,572.81	4,519.81	4,519.81	59.39	77.91	66.57	-1,580.33	5,833.39	4,188.44	4,057.96	130.48	32.100		
5,600.00	4,648.79	4,604.21	4,595.79	60.81	79.38	67.23	-1,580.33	5,833.39	4,156.61	4,023.07	133.54	31.127		
5,700.00	4,724.77	4,671.77	4,671.77	62.22	80.56	67.89	-1,580.33	5,833.39	4,125.56	3,989.24	136.32	30.264		
5,800.00	4,800.74	4,747.74	4,747.74	63.63	81.89	68.56	-1,580.33	5,833.39	4,095.30	3,956.05	139.26	29.408		
5,900.00	4,876.72	4,823.72	4,823.72	65.04	83.21	69.24	-1,580.33	5,833.39	4,065.86	3,923.66	142.21	28.591		
6,000.00	4,952.70	4,900.30	4,899.70	66.45	84.55	69.92	-1,580.33	5,833.39	4,037.26	3,892.07	145.18	27.808		
6,100.00	5,028.68	4,975.68	4,975.68	67.86	85.86	70.61	-1,580.33	5,833.39	4,009.50	3,861.35	148.15	27.064		
6,200.00	5,104.65	5,051.65	5,051.65	69.27	87.19	71.31	-1,580.33	5,833.39	3,982.62	3,831.48	151.13	26.351		
6,300.00	5,180.63	5,127.63	5,127.63	70.69	88.52	72.01	-1,580.33	5,833.39	3,956.61	3,802.48	154.13	25.671		
6,400.00	5,256.61	5,203.61	5,203.61	72.10	89.84	72.72	-1,580.33	5,833.39	3,931.52	3,774.38	157.13	25.021		
6,500.00	5,332.59	5,279.59	5,279.59	73.51	91.17	73.43	-1,580.33	5,833.39	3,907.34	3,747.20	160.14	24.399		
6,600.00	5,408.56	5,355.56	5,355.56	74.92	92.49	74.15	-1,580.33	5,833.39	3,884.10	3,720.94	163.15	23.806		
6,700.00	5,484.54	5,431.54	5,431.54	76.34	93.82	74.87	-1,580.33	5,833.39	3,861.81	3,695.64	166.17	23.240		
6,800.00	5,560.52	5,507.52	5,507.52	77.75	95.15	75.60	-1,580.33	5,833.39	3,840.50	3,671.31	169.19	22.699		
6,900.00	5,636.50	5,583.50	5,583.50	79.16	96.47	76.33	-1,580.33	5,833.39	3,820.18	3,647.96	172.21	22.183		
7,000.00	5,712.47	5,659.47	5,659.47	80.57	97.80	77.06	-1,580.33	5,833.39	3,800.85	3,625.62	175.24	21.690		
7,100.00	5,788.45	5,735.45	5,735.45	81.99	99.13	77.81	-1,580.33	5,833.39	3,782.55	3,604.30	178.26	21.220		
7,200.00	5,864.43	5,811.43	5,811.43	83.40	100.45	78.55	-1,580.33	5,833.39	3,765.28	3,584.01	181.27	20.771		
7,300.00	5,940.40	5,887.40	5,887.40	84.81	101.78	79.30	-1,580.33	5,833.39	3,749.06	3,564.78	184.28	20.344		
7,400.00	6,016.38	5,963.38	5,963.38	86.23	103.10	80.05	-1,580.33	5,833.39	3,733.90	3,546.62	187.29	19.937		
7,500.00	6,092.36	6,039.36	6,039.36	87.64	104.43	80.81	-1,580.33	5,833.39	3,719.82	3,529.54	190.28	19.549		
7,600.00	6,168.34	6,115.34	6,115.34	89.05	105.76	81.57	-1,580.33	5,833.39	3,706.82	3,513.56	193.27	19.180		
7,700.00	6,244.31	6,208.69	6,191.31	90.47	107.38	82.33	-1,580.33	5,833.39	3,694.93	3,498.38	196.54	18.799		
7,800.00	6,320.29	6,267.29	6,267.29	91.88	108.41	83.10	-1,580.33	5,833.39	3,684.14	3,484.94	199.20	18.495		
7,900.00	6,396.27	6,343.27	6,343.27	93.30	109.73	83.87	-1,580.33	5,833.39	3,674.47	3,472.32	202.14	18.177		
8,000.00	6,472.25	6,419.25	6,419.25	94.71	111.06	84.64	-1,580.33	5,833.39	3,665.93	3,460.85	205.07	17.876		
8,100.00	6,548.22	6,504.78	6,495.22	96.12	112.55	85.41	-1,580.33	5,833.39	3,658.52	3,450.37	208.15	17.577		
8,200.00	6,624.20	6,571.20	6,571.20	97.54	113.71	86.18	-1,580.33	5,833.39	3,652.26	3,441.39	210.87	17.320		
8,300.00	6,700.18	6,647.18	6,647.18	98.95	115.04	86.96	-1,580.33	5,833.39	3,647.14	3,433.41	213.74	17.064		
8,400.00	6,776.16	6,723.16	6,723.16	100.37	116.36	87.73	-1,580.33	5,833.39	3,643.18	3,426.60	216.58	16.822		
8,500.00	6,852.13	6,800.87	6,799.13	101.78	117.72	88.51	-1,580.33	5,833.39	3,640.37	3,420.95	219.43	16.590		
8,600.00	6,928.11	6,875.11	6,875.11	103.20	119.02	89.29	-1,580.33	5,833.39	3,638.73	3,416.54	222.19	16.377		
8,691.59	6,997.70	6,944.70	6,944.70	104.49	120.23	90.00	-1,580.33	5,833.39	3,638.24	3,413.52	224.72	16.190		
8,700.00	7,004.09	6,951.09	6,951.09	104.61	120.34	90.07	-1,580.33	5,833.39	3,638.25	3,413.30	224.95	16.174		
8,800.00	7,080.06	7,027.06	7,027.06	106.02	121.67	90.84	-1,580.33	5,833.39	3,638.93	3,411.24	227.68	15.982		
8,900.00	7,156.04	7,103.04	7,103.04	107.44	122.99	91.62	-1,580.33	5,833.39	3,640.77	3,410.38	230.39	15.803		
9,000.00	7,232.02	7,179.02	7,179.02	108.85	124.32	92.40	-1,580.33	5,833.39	3,643.76	3,410.70	233.06	15.634		
9,104.68	7,311.55	7,258.55	7,258.55	110.33	125.71	93.21	-1,580.33	5,833.39	3,648.14	3,412.32	235.83	15.470		
9,150.00	7,346.29	7,306.71	7,293.29	110.97	126.55	88.34	-1,580.33	5,833.39	3,648.69	3,411.44	237.25	15.379		
9,200.00	7,385.15	7,332.15	7,332.15	111.65	126.99	82.55	-1,580.33	5,833.39	3,645.51	3,407.20	238.32	15.297		
9,250.00	7,424.29	7,371.29	7,371.29	112.31	127.68	76.49	-1,580.33	5,833.39	3,638.38	3,398.77	239.60	15.185		
9,300.00	7,463.40	7,410.40	7,410.40	112.93	128.36	70.35	-1,580.33	5,833.39	3,627.30	3,386.44	240.86	15.060		
9,350.00	7,502.19	7,449.19	7,449.19	113.51	129.04	64.32	-1,580.33	5,833.39	3,612.35	3,370.27	242.07	14.923		
9,400.00	7,540.36	7,487.36	7,487.36	114.04	129.70	58.55	-1,580.33	5,833.39	3,593.59	3,350.35	243.24	14.774		
9,450.00	7,577.62	7,524.62	7,524.62	114.53	130.35	53.14	-1,580.33	5,833.39	3,571.15	3,326.80	244.34	14.615		
9,500.00	7,613.70	7,560.70	7,560.70	114.95	130.98	48.12	-1,580.33	5,833.39	3,545.14	3,299.76	245.38	14.447		
9,550.00	7,648.30	7,604.70	7,595.30	115.32	131.75	43.49	-1,580.33	5,833.39	3,515.75	3,269.23	246.52	14.262		
9,600.00	7,681.18	7,628.18	7,628.18	115.63	132.16	39.17	-1,580.33	5,833.39	3,483.15	3,235.90	247.24	14.088		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,650.00	7,712.08	7,659.08	7,659.08	115.88	132.70	35.08	-1,580.33	5,833.39	3,447.55	3,199.50	248.05	13.899		
9,700.00	7,740.76	7,687.76	7,687.76	116.08	133.20	31.07	-1,580.33	5,833.39	3,409.21	3,160.43	248.77	13.704		
9,750.00	7,767.01	7,714.01	7,714.01	116.23	133.66	26.94	-1,580.33	5,833.39	3,368.37	3,118.96	249.41	13.505		
9,800.00	7,790.63	7,737.63	7,737.63	116.33	134.07	22.42	-1,580.33	5,833.39	3,325.33	3,075.37	249.96	13.304		
9,850.00	7,811.44	7,758.44	7,758.44	116.38	134.43	17.03	-1,580.33	5,833.39	3,280.39	3,029.98	250.41	13.100		
9,900.00	7,829.28	7,776.28	7,776.28	116.38	134.74	9.93	-1,580.33	5,833.39	3,233.87	2,983.09	250.77	12.896		
9,950.00	7,844.01	7,808.99	7,791.01	116.35	135.32	-0.44	-1,580.33	5,833.39	3,186.12	2,934.76	251.36	12.675		
10,000.00	7,855.52	7,802.52	7,802.52	116.28	135.20	-16.86	-1,580.33	5,833.39	3,137.50	2,886.27	251.23	12.489		
10,050.00	7,863.72	7,810.72	7,810.72	116.18	135.35	-41.97	-1,580.33	5,833.39	3,088.39	2,837.07	251.33	12.288		
10,100.00	7,868.56	7,815.56	7,815.56	116.06	135.43	-70.36	-1,580.33	5,833.39	3,039.17	2,787.83	251.33	12.092		
10,145.94	7,870.00	7,817.00	7,817.00	115.92	135.46	-90.00	-1,580.33	5,833.39	2,994.18	2,742.92	251.27	11.916		
10,200.00	7,870.00	7,817.00	7,817.00	115.76	135.46	-90.00	-1,580.33	5,833.39	2,941.53	2,690.39	251.14	11.713		
10,300.00	7,870.00	7,817.00	7,817.00	115.46	135.46	-90.00	-1,580.33	5,833.39	2,844.29	2,593.38	250.90	11.336		
10,400.00	7,870.00	7,817.00	7,817.00	115.18	135.46	-90.00	-1,580.33	5,833.39	2,747.23	2,496.60	250.63	10.961		
10,500.00	7,870.00	7,817.00	7,817.00	114.91	135.46	-90.00	-1,580.33	5,833.39	2,650.40	2,400.06	250.34	10.587		
10,600.00	7,870.00	7,817.00	7,817.00	114.65	135.46	-90.00	-1,580.33	5,833.39	2,553.81	2,303.79	250.02	10.214		
10,700.00	7,870.00	7,817.00	7,817.00	114.41	135.46	-90.00	-1,580.33	5,833.39	2,457.50	2,207.83	249.67	9.843		
10,800.00	7,870.00	7,817.00	7,817.00	114.17	135.46	-90.00	-1,580.33	5,833.39	2,361.49	2,112.22	249.27	9.474		
10,900.00	7,870.00	7,817.00	7,817.00	113.95	135.46	-90.00	-1,580.33	5,833.39	2,265.83	2,016.99	248.83	9.106		
11,000.00	7,870.00	7,817.00	7,817.00	113.75	135.46	-90.00	-1,580.33	5,833.39	2,170.55	1,922.21	248.34	8.740		
11,100.00	7,870.00	7,817.00	7,817.00	113.55	135.46	-90.00	-1,580.33	5,833.39	2,075.72	1,827.94	247.79	8.377		
11,200.00	7,870.00	7,817.00	7,817.00	113.37	135.46	-90.00	-1,580.33	5,833.39	1,981.41	1,734.25	247.16	8.017		
11,300.00	7,870.00	7,817.00	7,817.00	113.20	135.46	-90.00	-1,580.33	5,833.39	1,887.67	1,641.22	246.45	7.660		
11,400.00	7,870.00	7,817.00	7,817.00	113.04	135.46	-90.00	-1,580.33	5,833.39	1,794.61	1,548.98	245.63	7.306		
11,500.00	7,870.00	7,817.00	7,817.00	112.89	135.46	-90.00	-1,580.33	5,833.39	1,702.34	1,457.64	244.70	6.957		
11,600.00	7,870.00	7,817.00	7,817.00	112.76	135.46	-90.00	-1,580.33	5,833.39	1,610.99	1,367.38	243.62	6.613		
11,700.00	7,870.00	7,817.00	7,817.00	112.64	135.46	-90.00	-1,580.33	5,833.39	1,520.74	1,278.38	242.36	6.275		
11,800.00	7,870.00	7,817.00	7,817.00	112.53	135.46	-90.00	-1,580.33	5,833.39	1,431.77	1,190.90	240.88	5.944		
11,900.00	7,870.00	7,817.00	7,817.00	112.44	135.46	-90.00	-1,580.33	5,833.39	1,344.36	1,105.23	239.13	5.622		
12,000.00	7,870.00	7,817.00	7,817.00	112.36	135.46	-90.00	-1,580.33	5,833.39	1,258.82	1,021.76	237.06	5.310		
12,100.00	7,870.00	7,817.00	7,817.00	112.29	135.46	-90.00	-1,580.33	5,833.39	1,175.57	940.99	234.59	5.011		
12,200.00	7,870.00	7,817.00	7,817.00	112.24	135.46	-90.00	-1,580.33	5,833.39	1,095.13	863.51	231.62	4.728		
12,300.00	7,870.00	7,817.00	7,817.00	112.20	135.46	-90.00	-1,580.33	5,833.39	1,018.16	790.09	228.06	4.464		
12,400.00	7,870.00	7,817.00	7,817.00	112.17	135.46	-90.00	-1,580.33	5,833.39	945.50	721.70	223.80	4.225		
12,500.00	7,870.00	7,817.00	7,817.00	112.16	135.46	-90.00	-1,580.33	5,833.39	878.24	659.47	218.78	4.014		
12,600.00	7,870.00	7,817.00	7,817.00	112.17	135.46	-90.00	-1,580.33	5,833.39	817.71	604.71	213.00	3.839		
12,700.00	7,870.00	7,817.00	7,817.00	112.19	135.46	-90.00	-1,580.33	5,833.39	765.49	558.79	206.71	3.703		
12,800.00	7,870.00	7,817.00	7,817.00	112.23	135.46	-90.00	-1,580.33	5,833.39	723.40	522.84	200.56	3.607		
12,900.00	7,870.00	7,817.00	7,817.00	112.28	135.46	-90.00	-1,580.33	5,833.39	693.29	497.48	195.80	3.541		
13,000.00	7,870.00	7,817.00	7,817.00	112.36	135.46	-90.00	-1,580.33	5,833.39	676.74	482.71	194.03	3.488		
13,063.33	7,870.00	7,817.00	7,817.00	112.41	135.46	-90.00	-1,580.33	5,833.39	673.77	478.80	194.97	3.456 CC		
13,100.00	7,870.00	7,817.00	7,817.00	112.45	135.46	-90.00	-1,580.33	5,833.39	674.77	478.54	196.23	3.439 ES		
13,200.00	7,870.00	7,817.00	7,817.00	112.56	135.46	-90.00	-1,580.33	5,833.39	687.49	485.68	201.81	3.407 SF		
13,300.00	7,870.00	7,817.00	7,817.00	112.68	135.46	-90.00	-1,580.33	5,833.39	714.13	504.98	209.15	3.415		
13,400.00	7,870.00	7,817.00	7,817.00	112.83	135.46	-90.00	-1,580.33	5,833.39	753.20	536.48	216.72	3.475		
13,500.00	7,870.00	7,817.00	7,817.00	113.00	135.46	-90.00	-1,580.33	5,833.39	802.90	579.26	223.64	3.590		
13,600.00	7,870.00	7,817.00	7,817.00	113.19	135.46	-90.00	-1,580.33	5,833.39	861.39	631.83	229.55	3.752		
13,700.00	7,870.00	7,817.00	7,817.00	113.40	135.46	-90.00	-1,580.33	5,833.39	926.99	692.58	234.41	3.955		
13,800.00	7,870.00	7,817.00	7,817.00	113.63	135.46	-90.00	-1,580.33	5,833.39	998.32	759.98	238.34	4.189		
13,900.00	7,870.00	7,817.00	7,817.00	113.89	135.46	-90.00	-1,580.33	5,833.39	1,074.24	832.75	241.49	4.448		
14,000.00	7,870.00	7,817.00	7,817.00	114.18	135.46	-90.00	-1,580.33	5,833.39	1,153.83	909.82	244.01	4.729		
14,100.00	7,870.00	7,817.00	7,817.00	114.48	135.46	-90.00	-1,580.33	5,833.39	1,236.39	990.35	246.04	5.025		

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

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 43-23 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,870.00	7,817.00	7,817.00	114.82	135.46	-90.00	-1,580.33	5,833.39	1,321.36	1,073.68	247.67	5.335		
14,300.00	7,870.00	7,817.00	7,817.00	115.18	135.46	-90.00	-1,580.33	5,833.39	1,408.30	1,159.30	249.00	5.656		
14,400.00	7,870.00	7,817.00	7,817.00	115.57	135.46	-90.00	-1,580.33	5,833.39	1,496.88	1,246.79	250.09	5.985		
14,500.00	7,870.00	7,817.00	7,817.00	115.99	135.46	-90.00	-1,580.33	5,833.39	1,586.82	1,335.83	250.99	6.322		
14,600.00	7,870.00	7,817.00	7,817.00	116.44	135.46	-90.00	-1,580.33	5,833.39	1,677.89	1,426.16	251.73	6.665		
14,700.00	7,870.00	7,817.00	7,817.00	116.92	135.46	-90.00	-1,580.33	5,833.39	1,769.93	1,517.57	252.36	7.014		
14,800.00	7,870.00	7,817.00	7,817.00	117.44	135.46	-90.00	-1,580.33	5,833.39	1,862.79	1,609.91	252.88	7.366		
14,900.00	7,870.00	7,817.00	7,817.00	117.98	135.46	-90.00	-1,580.33	5,833.39	1,956.36	1,703.03	253.33	7.723		
15,000.00	7,870.00	7,817.00	7,817.00	118.56	135.46	-90.00	-1,580.33	5,833.39	2,050.53	1,796.82	253.71	8.082		
15,100.00	7,870.00	7,817.00	7,817.00	119.17	135.46	-90.00	-1,580.33	5,833.39	2,145.23	1,891.20	254.03	8.445		
15,200.00	7,870.00	7,817.00	7,817.00	119.81	135.46	-90.00	-1,580.33	5,833.39	2,240.39	1,986.08	254.31	8.810		
15,300.00	7,870.00	7,817.00	7,817.00	120.48	135.46	-90.00	-1,580.33	5,833.39	2,335.95	2,081.40	254.55	9.177		
15,400.00	7,870.00	7,817.00	7,817.00	121.19	135.46	-90.00	-1,580.33	5,833.39	2,431.87	2,177.11	254.76	9.546		
15,500.00	7,870.00	7,817.00	7,817.00	121.93	135.46	-90.00	-1,580.33	5,833.39	2,528.11	2,273.16	254.95	9.916		
15,600.00	7,870.00	7,817.00	7,817.00	122.71	135.46	-90.00	-1,580.33	5,833.39	2,624.63	2,369.52	255.11	10.288		
15,700.00	7,870.00	7,817.00	7,817.00	123.52	135.46	-90.00	-1,580.33	5,833.39	2,721.40	2,466.14	255.25	10.661		
15,800.00	7,870.00	7,817.00	7,817.00	124.36	135.46	-90.00	-1,580.33	5,833.39	2,818.39	2,563.01	255.38	11.036		
15,900.00	7,870.00	7,817.00	7,817.00	125.23	135.46	-90.00	-1,580.33	5,833.39	2,915.59	2,660.10	255.50	11.412		
16,000.00	7,870.00	7,817.00	7,817.00	126.14	135.46	-90.00	-1,580.33	5,833.39	3,012.97	2,757.38	255.60	11.788		
16,100.00	7,870.00	7,817.00	7,817.00	127.07	135.46	-90.00	-1,580.33	5,833.39	3,110.52	2,854.83	255.69	12.165		
16,200.00	7,870.00	7,817.00	7,817.00	128.04	135.46	-90.00	-1,580.33	5,833.39	3,208.22	2,952.45	255.77	12.543		
16,300.00	7,870.00	7,817.00	7,817.00	129.04	135.46	-90.00	-1,580.33	5,833.39	3,306.06	3,050.21	255.84	12.922		
16,400.00	7,870.00	7,817.00	7,817.00	130.06	135.46	-90.00	-1,580.33	5,833.39	3,404.02	3,148.11	255.91	13.302		
16,500.00	7,870.00	7,817.00	7,817.00	131.11	135.46	-90.00	-1,580.33	5,833.39	3,502.10	3,246.12	255.97	13.682		
16,600.00	7,870.00	7,817.00	7,817.00	132.19	135.46	-90.00	-1,580.33	5,833.39	3,600.28	3,344.25	256.03	14.062		
16,700.00	7,870.00	7,817.00	7,817.00	133.29	135.46	-90.00	-1,580.33	5,833.39	3,698.56	3,442.48	256.08	14.443		
16,800.00	7,870.00	7,817.00	7,817.00	134.42	135.46	-90.00	-1,580.33	5,833.39	3,796.93	3,540.80	256.13	14.824		
16,900.00	7,870.00	7,817.00	7,817.00	135.57	135.46	-90.00	-1,580.33	5,833.39	3,895.38	3,639.21	256.17	15.206		
17,000.00	7,870.00	7,817.00	7,817.00	136.75	135.46	-90.00	-1,580.33	5,833.39	3,993.91	3,737.70	256.21	15.588		
17,100.00	7,870.00	7,817.00	7,817.00	137.94	135.46	-90.00	-1,580.33	5,833.39	4,092.51	3,836.26	256.25	15.971		
17,200.00	7,870.00	7,817.00	7,817.00	139.16	135.46	-90.00	-1,580.33	5,833.39	4,191.18	3,934.89	256.29	16.353		
17,300.00	7,870.00	7,817.00	7,817.00	140.39	135.46	-90.00	-1,580.33	5,833.39	4,289.91	4,033.59	256.32	16.736		
17,400.00	7,870.00	7,817.00	7,817.00	141.65	135.46	-90.00	-1,580.33	5,833.39	4,388.70	4,132.35	256.35	17.120		
17,500.00	7,870.00	7,817.00	7,817.00	142.92	135.46	-90.00	-1,580.33	5,833.39	4,487.54	4,231.16	256.38	17.503		
17,600.00	7,870.00	7,817.00	7,817.00	144.21	135.46	-90.00	-1,580.33	5,833.39	4,586.43	4,330.02	256.41	17.887		
17,700.00	7,870.00	7,817.00	7,817.00	145.52	135.46	-90.00	-1,580.33	5,833.39	4,685.37	4,428.93	256.44	18.271		
17,800.00	7,870.00	7,817.00	7,817.00	146.84	135.46	-90.00	-1,580.33	5,833.39	4,784.35	4,527.89	256.47	18.655		
17,900.00	7,870.00	7,817.00	7,817.00	148.18	135.46	-90.00	-1,580.33	5,833.39	4,883.37	4,626.88	256.49	19.039		
18,000.00	7,870.00	7,817.00	7,817.00	149.54	135.46	-90.00	-1,580.33	5,833.39	4,982.44	4,725.92	256.51	19.424		
18,100.00	7,870.00	7,817.00	7,817.00	150.90	135.46	-90.00	-1,580.33	5,833.39	5,081.54	4,825.00	256.54	19.808		
18,200.00	7,870.00	7,817.00	7,817.00	152.28	135.46	-90.00	-1,580.33	5,833.39	5,180.67	4,924.11	256.56	20.193		
18,300.00	7,870.00	7,817.00	7,817.00	153.67	135.46	-90.00	-1,580.33	5,833.39	5,279.84	5,023.26	256.58	20.578		
18,400.00	7,870.00	7,817.00	7,817.00	155.07	135.46	-90.00	-1,580.33	5,833.39	5,379.04	5,122.43	256.60	20.962		
18,500.00	7,870.00	7,817.00	7,817.00	156.49	135.46	-90.00	-1,580.33	5,833.39	5,478.26	5,221.64	256.62	21.347		
18,600.00	7,870.00	7,817.00	7,817.00	157.91	135.46	-90.00	-1,580.33	5,833.39	5,577.52	5,320.87	256.64	21.732		
18,700.00	7,870.00	7,817.00	7,817.00	159.35	135.46	-90.00	-1,580.33	5,833.39	5,676.80	5,420.13	256.66	22.118		
18,800.00	7,870.00	7,817.00	7,817.00	160.79	135.46	-90.00	-1,580.33	5,833.39	5,776.10	5,519.42	256.68	22.503		
18,900.00	7,870.00	7,817.00	7,817.00	162.25	135.46	-90.00	-1,580.33	5,833.39	5,875.43	5,618.73	256.70	22.888		
19,000.00	7,870.00	7,817.00	7,817.00	163.71	135.46	-90.00	-1,580.33	5,833.39	5,974.78	5,718.06	256.72	23.273		
19,100.00	7,870.00	7,817.00	7,817.00	165.18	135.46	-90.00	-1,580.33	5,833.39	6,074.16	5,817.41	256.74	23.659		
19,200.00	7,870.00	7,817.00	7,817.00	166.66	135.46	-90.00	-1,580.33	5,833.39	6,173.55	5,916.79	256.76	24.044		
19,300.00	7,870.00	7,817.00	7,817.00	168.15	135.46	-90.00	-1,580.33	5,833.39	6,272.96	6,016.18	256.78	24.429		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,400.00	7,870.00	7,817.00	7,817.00	169.65	135.46	-90.00	-1,580.33	5,833.39	6,372.39	6,115.59	256.80	24.815	
19,500.00	7,870.00	7,817.00	7,817.00	171.15	135.46	-90.00	-1,580.33	5,833.39	6,471.84	6,215.02	256.82	25.200	
19,600.00	7,870.00	7,817.00	7,817.00	172.66	135.46	-90.00	-1,580.33	5,833.39	6,571.30	6,314.47	256.84	25.586	
19,700.00	7,870.00	7,817.00	7,817.00	174.18	135.46	-90.00	-1,580.33	5,833.39	6,670.78	6,413.93	256.85	25.971	
19,800.00	7,870.00	7,817.00	7,817.00	175.70	135.46	-90.00	-1,580.33	5,833.39	6,770.28	6,513.41	256.87	26.357	
19,889.26	7,870.00	7,817.00	7,817.00	177.06	135.46	-90.00	-1,580.33	5,833.39	6,859.10	6,602.21	256.89	26.701	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	115.16	-2,506.46	5,336.55	5,896.04					
100.00	100.00	53.00	53.00	0.13	0.41	115.16	-2,506.46	5,336.55	5,895.85	5,895.31	0.54	N/A		
200.00	200.00	153.00	153.00	0.49	1.69	115.16	-2,506.46	5,336.55	5,895.85	5,893.67	2.19	2,697.259		
300.00	300.00	253.00	253.00	0.85	3.44	115.16	-2,506.46	5,336.55	5,895.85	5,891.56	4.29	1,374.431		
400.00	399.98	352.98	352.98	1.21	5.18	47.04	-2,506.46	5,336.55	5,894.66	5,888.28	6.39	922.662		
500.00	499.84	452.84	452.84	1.56	6.93	47.13	-2,506.46	5,336.55	5,891.10	5,882.61	8.49	694.082		
600.00	599.45	552.45	552.45	1.93	8.66	47.28	-2,506.46	5,336.55	5,885.16	5,874.58	10.59	555.744		
700.00	698.70	651.70	651.70	2.32	10.40	47.49	-2,506.46	5,336.55	5,876.88	5,864.18	12.70	462.918		
800.00	797.47	750.47	750.47	2.72	12.12	47.76	-2,506.46	5,336.55	5,866.27	5,851.46	14.81	396.217		
900.00	895.62	848.62	848.62	3.16	13.83	48.09	-2,506.46	5,336.55	5,853.35	5,836.43	16.92	345.891		
1,000.00	993.06	946.06	946.06	3.63	15.53	48.48	-2,506.46	5,336.55	5,838.16	5,819.12	19.05	306.503		
1,100.00	1,089.64	1,042.64	1,042.64	4.14	17.22	48.94	-2,506.46	5,336.55	5,820.75	5,799.57	21.18	274.782		
1,200.00	1,185.27	1,138.27	1,138.27	4.70	18.89	49.45	-2,506.46	5,336.55	5,801.16	5,777.83	23.33	248.645		
1,300.00	1,279.82	1,232.82	1,232.82	5.31	20.54	50.03	-2,506.46	5,336.55	5,779.44	5,753.94	25.49	226.703		
1,400.00	1,373.17	1,326.17	1,326.17	5.97	22.17	50.67	-2,506.46	5,336.55	5,755.64	5,727.97	27.67	207.994		
1,500.00	1,465.21	1,418.21	1,418.21	6.69	23.78	51.37	-2,506.46	5,336.55	5,729.85	5,699.98	29.87	191.829		
1,600.00	1,555.84	1,508.84	1,508.84	7.47	25.36	52.14	-2,506.46	5,336.55	5,702.11	5,670.03	32.09	177.706		
1,700.00	1,644.94	1,602.06	1,597.94	8.31	26.98	52.97	-2,506.46	5,336.55	5,672.52	5,638.12	34.40	164.901		
1,800.00	1,732.39	1,685.39	1,685.39	9.23	28.44	53.87	-2,506.46	5,336.55	5,641.15	5,604.56	36.59	154.165		
1,900.00	1,818.11	1,771.11	1,771.11	10.21	29.93	54.82	-2,506.46	5,336.55	5,608.09	5,569.21	38.88	144.234		
2,000.00	1,901.97	1,854.97	1,854.97	11.26	31.40	55.84	-2,506.46	5,336.55	5,573.44	5,532.24	41.20	135.278		
2,100.00	1,983.88	1,936.88	1,936.88	12.38	32.83	56.92	-2,506.46	5,336.55	5,537.29	5,493.74	43.55	127.157		
2,200.00	2,063.74	2,016.74	2,016.74	13.57	34.22	58.06	-2,506.46	5,336.55	5,499.75	5,453.82	45.92	119.757		
2,300.00	2,141.45	2,105.55	2,094.45	14.84	35.77	59.25	-2,506.46	5,336.55	5,460.92	5,412.39	48.53	112.533		
2,327.78	2,162.65	2,115.65	2,115.65	15.21	35.95	59.59	-2,506.46	5,336.55	5,449.92	5,400.91	49.01	111.202		
2,400.00	2,217.51	2,170.51	2,170.51	16.17	36.91	59.94	-2,506.46	5,336.55	5,421.34	5,370.57	50.77	106.776		
2,500.00	2,293.49	2,246.49	2,246.49	17.51	38.23	60.44	-2,506.46	5,336.55	5,382.20	5,328.95	53.24	101.091		
2,600.00	2,369.47	2,322.47	2,322.47	18.86	39.56	60.94	-2,506.46	5,336.55	5,343.55	5,287.82	55.74	95.873		
2,700.00	2,445.45	2,401.55	2,398.45	20.22	40.94	61.44	-2,506.46	5,336.55	5,305.43	5,247.12	58.31	90.989		
2,800.00	2,521.42	2,474.42	2,474.42	21.59	42.21	61.95	-2,506.46	5,336.55	5,267.83	5,207.03	60.80	86.648		
2,900.00	2,597.40	2,550.40	2,550.40	22.97	43.54	62.46	-2,506.46	5,336.55	5,230.76	5,167.40	63.36	82.559		
3,000.00	2,673.38	2,626.38	2,626.38	24.34	44.86	62.98	-2,506.46	5,336.55	5,194.25	5,128.31	65.94	78.772		
3,100.00	2,749.36	2,702.36	2,702.36	25.73	46.19	63.50	-2,506.46	5,336.55	5,158.30	5,089.76	68.54	75.257		
3,200.00	2,825.33	2,778.33	2,778.33	27.11	47.51	64.03	-2,506.46	5,336.55	5,122.92	5,051.76	71.16	71.989		
3,300.00	2,901.31	2,854.31	2,854.31	28.50	48.84	64.56	-2,506.46	5,336.55	5,088.12	5,014.32	73.80	68.944		
3,400.00	2,977.29	2,930.29	2,930.29	29.90	50.17	65.10	-2,506.46	5,336.55	5,053.93	4,977.47	76.46	66.102		
3,500.00	3,053.27	3,006.27	3,006.27	31.29	51.49	65.64	-2,506.46	5,336.55	5,020.34	4,941.21	79.13	63.446		
3,600.00	3,129.24	3,082.24	3,082.24	32.69	52.82	66.19	-2,506.46	5,336.55	4,987.37	4,905.56	81.82	60.958		
3,700.00	3,205.22	3,158.22	3,158.22	34.08	54.14	66.74	-2,506.46	5,336.55	4,955.04	4,870.52	84.52	58.626		
3,800.00	3,281.20	3,234.20	3,234.20	35.48	55.47	67.30	-2,506.46	5,336.55	4,923.35	4,836.11	87.24	56.435		
3,900.00	3,357.18	3,310.18	3,310.18	36.88	56.80	67.86	-2,506.46	5,336.55	4,892.33	4,802.35	89.97	54.376		
4,000.00	3,433.15	3,386.15	3,386.15	38.29	58.12	68.43	-2,506.46	5,336.55	4,861.97	4,769.25	92.72	52.437		
4,100.00	3,509.13	3,462.13	3,462.13	39.69	59.45	69.00	-2,506.46	5,336.55	4,832.30	4,736.82	95.48	50.610		
4,200.00	3,585.11	3,538.11	3,538.11	41.09	60.77	69.57	-2,506.46	5,336.55	4,803.32	4,705.07	98.25	48.886		
4,300.00	3,661.08	3,614.08	3,614.08	42.50	62.10	70.15	-2,506.46	5,336.55	4,775.06	4,674.02	101.04	47.258		
4,400.00	3,737.06	3,709.94	3,690.06	43.90	63.77	70.73	-2,506.46	5,336.55	4,747.51	4,643.33	104.19	45.567		
4,500.00	3,813.04	3,766.04	3,766.04	45.31	64.75	71.32	-2,506.46	5,336.55	4,720.71	4,614.06	106.65	44.263		
4,600.00	3,889.02	3,842.02	3,842.02	46.71	66.08	71.91	-2,506.46	5,336.55	4,694.65	4,585.17	109.47	42.885		
4,700.00	3,964.99	3,917.99	3,917.99	48.12	67.40	72.50	-2,506.46	5,336.55	4,669.34	4,557.04	112.30	41.578		
4,800.00	4,040.97	4,006.03	3,993.97	49.53	68.94	73.10	-2,506.46	5,336.55	4,644.82	4,529.46	115.35	40.266		
4,900.00	4,116.95	4,069.95	4,069.95	50.94	70.06	73.71	-2,506.46	5,336.55	4,621.07	4,503.08	117.99	39.164		
5,000.00	4,192.93	4,145.93	4,145.93	52.35	71.38	74.31	-2,506.46	5,336.55	4,598.13	4,477.28	120.85	38.048		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,268.90	4,221.90	4,221.90	53.76	72.71	74.92	-2,506.46	5,336.55	4,575.99	4,452.27	123.71	36.988		
5,200.00	4,344.88	4,302.12	4,297.88	55.16	74.11	75.54	-2,506.46	5,336.55	4,554.67	4,428.01	126.66	35.960		
5,300.00	4,420.86	4,373.86	4,373.86	56.57	75.36	76.15	-2,506.46	5,336.55	4,534.18	4,404.72	129.46	35.024		
5,400.00	4,496.84	4,449.84	4,449.84	57.98	76.69	76.77	-2,506.46	5,336.55	4,514.54	4,382.20	132.34	34.113		
5,500.00	4,572.81	4,525.81	4,525.81	59.39	78.01	77.40	-2,506.46	5,336.55	4,495.76	4,360.53	135.23	33.246		
5,600.00	4,648.79	4,601.79	4,601.79	60.81	79.34	78.02	-2,506.46	5,336.55	4,477.83	4,339.72	138.11	32.421		
5,700.00	4,724.77	4,677.77	4,677.77	62.22	80.67	78.65	-2,506.46	5,336.55	4,460.79	4,319.78	141.00	31.636		
5,800.00	4,800.74	4,753.74	4,753.74	63.63	81.99	79.28	-2,506.46	5,336.55	4,444.63	4,300.73	143.89	30.888		
5,900.00	4,876.72	4,829.72	4,829.72	65.04	83.32	79.92	-2,506.46	5,336.55	4,429.36	4,282.58	146.79	30.176		
6,000.00	4,952.70	4,905.70	4,905.70	66.45	84.64	80.56	-2,506.46	5,336.55	4,415.00	4,265.33	149.67	29.497		
6,100.00	5,028.68	4,981.68	4,981.68	67.86	85.97	81.20	-2,506.46	5,336.55	4,401.56	4,248.99	152.56	28.851		
6,200.00	5,104.65	5,057.65	5,057.65	69.27	87.30	81.84	-2,506.46	5,336.55	4,389.03	4,233.59	155.45	28.235		
6,300.00	5,180.63	5,133.63	5,133.63	70.69	88.62	82.48	-2,506.46	5,336.55	4,377.44	4,219.11	158.33	27.648		
6,400.00	5,256.61	5,209.61	5,209.61	72.10	89.95	83.13	-2,506.46	5,336.55	4,366.78	4,205.58	161.20	27.089		
6,500.00	5,332.59	5,285.59	5,285.59	73.51	91.27	83.78	-2,506.46	5,336.55	4,357.07	4,193.00	164.07	26.556		
6,600.00	5,408.56	5,361.56	5,361.56	74.92	92.60	84.43	-2,506.46	5,336.55	4,348.31	4,181.38	166.93	26.049		
6,700.00	5,484.54	5,437.54	5,437.54	76.34	93.93	85.08	-2,506.46	5,336.55	4,340.50	4,170.72	169.78	25.565		
6,800.00	5,560.52	5,513.52	5,513.52	77.75	95.25	85.73	-2,506.46	5,336.55	4,333.66	4,161.03	172.63	25.104		
6,900.00	5,636.50	5,589.50	5,589.50	79.16	96.58	86.38	-2,506.46	5,336.55	4,327.78	4,152.32	175.46	24.665		
7,000.00	5,712.47	5,665.47	5,665.47	80.57	97.90	87.04	-2,506.46	5,336.55	4,322.87	4,144.59	178.28	24.248		
7,100.00	5,788.45	5,741.45	5,741.45	81.99	99.23	87.69	-2,506.46	5,336.55	4,318.94	4,137.85	181.09	23.850		
7,200.00	5,864.43	5,817.43	5,817.43	83.40	100.56	88.35	-2,506.46	5,336.55	4,315.98	4,132.10	183.88	23.471		
7,300.00	5,940.40	5,906.60	5,906.60	84.81	102.11	89.00	-2,506.46	5,336.55	4,314.00	4,127.11	186.89	23.083		
7,400.00	6,016.38	5,969.38	5,969.38	86.23	103.21	89.66	-2,506.46	5,336.55	4,313.00	4,123.57	189.43	22.769		
7,452.13	6,055.99	6,008.99	6,008.99	86.96	103.90	90.00	-2,506.46	5,336.55	4,312.87	4,122.01	190.86	22.597		
7,500.00	6,092.36	6,045.36	6,045.36	87.64	104.53	90.31	-2,506.46	5,336.55	4,312.98	4,120.80	192.18	22.443		
7,600.00	6,168.34	6,121.34	6,121.34	89.05	105.86	90.97	-2,506.46	5,336.55	4,313.94	4,119.03	194.91	22.133		
7,700.00	6,244.31	6,202.69	6,197.31	90.47	107.28	91.63	-2,506.46	5,336.55	4,315.88	4,118.16	197.71	21.829		
7,800.00	6,320.29	6,273.29	6,273.29	91.88	108.51	92.28	-2,506.46	5,336.55	4,318.79	4,118.48	200.31	21.560		
7,900.00	6,396.27	6,349.27	6,349.27	93.30	109.84	92.94	-2,506.46	5,336.55	4,322.69	4,119.70	202.99	21.296		
8,000.00	6,472.25	6,425.25	6,425.25	94.71	111.16	93.59	-2,506.46	5,336.55	4,327.55	4,121.91	205.64	21.044		
8,100.00	6,548.22	6,501.22	6,501.22	96.12	112.49	94.24	-2,506.46	5,336.55	4,333.39	4,125.12	208.27	20.806		
8,200.00	6,624.20	6,577.20	6,577.20	97.54	113.82	94.90	-2,506.46	5,336.55	4,340.19	4,129.31	210.88	20.581		
8,300.00	6,700.18	6,653.18	6,653.18	98.95	115.14	95.55	-2,506.46	5,336.55	4,347.96	4,134.49	213.47	20.368		
8,400.00	6,776.16	6,729.16	6,729.16	100.37	116.47	96.20	-2,506.46	5,336.55	4,356.68	4,140.64	216.04	20.166		
8,500.00	6,852.13	6,805.13	6,805.13	101.78	117.79	96.84	-2,506.46	5,336.55	4,366.35	4,147.77	218.58	19.976		
8,600.00	6,928.11	6,881.11	6,881.11	103.20	119.12	97.49	-2,506.46	5,336.55	4,376.97	4,155.87	221.10	19.797		
8,700.00	7,004.09	6,957.09	6,957.09	104.61	120.45	98.13	-2,506.46	5,336.55	4,388.52	4,164.93	223.59	19.627		
8,800.00	7,080.06	7,033.06	7,033.06	106.02	121.77	98.78	-2,506.46	5,336.55	4,401.01	4,174.94	226.06	19.468		
8,900.00	7,156.04	7,109.04	7,109.04	107.44	123.10	99.42	-2,506.46	5,336.55	4,414.41	4,185.90	228.51	19.318		
9,000.00	7,232.02	7,185.02	7,185.02	108.85	124.42	100.05	-2,506.46	5,336.55	4,428.73	4,197.80	230.93	19.178		
9,104.68	7,311.55	7,264.55	7,264.55	110.33	125.81	100.72	-2,506.46	5,336.55	4,444.69	4,211.26	233.44	19.040		
9,150.00	7,346.29	7,300.71	7,299.29	110.97	126.44	95.83	-2,506.46	5,336.55	4,450.14	4,215.59	234.55	18.973		
9,200.00	7,385.15	7,338.15	7,338.15	111.65	127.10	90.06	-2,506.46	5,336.55	4,452.25	4,216.52	235.73	18.887		
9,250.00	7,424.29	7,377.29	7,377.29	112.31	127.78	84.08	-2,506.46	5,336.55	4,450.23	4,213.30	236.93	18.783		
9,300.00	7,463.40	7,416.40	7,416.40	112.93	128.46	78.07	-2,506.46	5,336.55	4,444.10	4,205.99	238.11	18.664		
9,350.00	7,502.19	7,455.19	7,455.19	113.51	129.14	72.24	-2,506.46	5,336.55	4,433.89	4,194.62	239.27	18.531		
9,400.00	7,540.36	7,506.64	7,493.36	114.04	130.04	66.74	-2,506.46	5,336.55	4,419.66	4,179.04	240.62	18.368		
9,450.00	7,577.62	7,530.62	7,530.62	114.53	130.46	61.68	-2,506.46	5,336.55	4,401.51	4,160.04	241.46	18.229		
9,500.00	7,613.70	7,566.70	7,566.70	114.95	131.09	57.12	-2,506.46	5,336.55	4,379.54	4,137.06	242.48	18.061		
9,550.00	7,648.30	7,601.30	7,601.30	115.32	131.69	53.07	-2,506.46	5,336.55	4,353.91	4,110.47	243.44	17.885		
9,600.00	7,681.18	7,634.18	7,634.18	115.63	132.26	49.50	-2,506.46	5,336.55	4,324.78	4,080.45	244.33	17.701		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,650.00	7,712.08	7,665.08	7,665.08	115.88	132.80	46.38	-2,506.46	5,336.55	4,292.35	4,047.20	245.15	17.509		
9,700.00	7,740.76	7,706.24	7,693.76	116.08	133.52	43.65	-2,506.46	5,336.55	4,256.83	4,010.73	246.11	17.297		
9,750.00	7,767.01	7,720.01	7,720.01	116.23	133.76	41.25	-2,506.46	5,336.55	4,218.48	3,971.93	246.55	17.110		
9,800.00	7,790.63	7,743.63	7,743.63	116.33	134.17	39.09	-2,506.46	5,336.55	4,177.56	3,930.43	247.13	16.904		
9,850.00	7,811.44	7,764.44	7,764.44	116.38	134.54	37.08	-2,506.46	5,336.55	4,134.35	3,886.72	247.62	16.696		
9,900.00	7,829.28	7,782.28	7,782.28	116.38	134.85	35.09	-2,506.46	5,336.55	4,089.16	3,841.12	248.04	16.486		
9,950.00	7,844.01	7,802.99	7,797.01	116.35	135.21	32.85	-2,506.46	5,336.55	4,042.31	3,793.84	248.47	16.269		
10,000.00	7,855.52	7,808.52	7,808.52	116.28	135.31	29.77	-2,506.46	5,336.55	3,994.15	3,745.53	248.62	16.065		
10,050.00	7,863.72	7,816.72	7,816.72	116.18	135.45	23.88	-2,506.46	5,336.55	3,945.02	3,696.23	248.79	15.857		
10,100.00	7,868.56	7,821.56	7,821.56	116.06	135.53	3.07	-2,506.46	5,336.55	3,895.29	3,646.41	248.88	15.651		
10,145.94	7,870.00	7,823.00	7,823.00	115.92	135.56	-90.00	-2,506.46	5,336.55	3,849.40	3,600.50	248.89	15.466		
10,200.00	7,870.00	7,823.00	7,823.00	115.76	135.56	-90.00	-2,506.46	5,336.55	3,795.40	3,546.52	248.88	15.250		
10,300.00	7,870.00	7,823.00	7,823.00	115.46	135.56	-90.00	-2,506.46	5,336.55	3,695.51	3,446.66	248.85	14.850		
10,400.00	7,870.00	7,823.00	7,823.00	115.18	135.56	-90.00	-2,506.46	5,336.55	3,595.64	3,346.82	248.82	14.451		
10,500.00	7,870.00	7,823.00	7,823.00	114.91	135.56	-90.00	-2,506.46	5,336.55	3,495.76	3,246.98	248.78	14.051		
10,600.00	7,870.00	7,823.00	7,823.00	114.65	135.56	-90.00	-2,506.46	5,336.55	3,395.90	3,147.15	248.75	13.652		
10,700.00	7,870.00	7,823.00	7,823.00	114.41	135.56	-90.00	-2,506.46	5,336.55	3,296.05	3,047.33	248.71	13.252		
10,800.00	7,870.00	7,823.00	7,823.00	114.17	135.56	-90.00	-2,506.46	5,336.55	3,196.20	2,947.53	248.67	12.853		
10,900.00	7,870.00	7,823.00	7,823.00	113.95	135.56	-90.00	-2,506.46	5,336.55	3,096.36	2,847.73	248.63	12.454		
11,000.00	7,870.00	7,823.00	7,823.00	113.75	135.56	-90.00	-2,506.46	5,336.55	2,996.54	2,747.95	248.59	12.054		
11,100.00	7,870.00	7,823.00	7,823.00	113.55	135.56	-90.00	-2,506.46	5,336.55	2,896.73	2,648.18	248.54	11.655		
11,200.00	7,870.00	7,823.00	7,823.00	113.37	135.56	-90.00	-2,506.46	5,336.55	2,796.93	2,548.43	248.49	11.256		
11,300.00	7,870.00	7,823.00	7,823.00	113.20	135.56	-90.00	-2,506.46	5,336.55	2,697.14	2,448.70	248.44	10.856		
11,400.00	7,870.00	7,823.00	7,823.00	113.04	135.56	-90.00	-2,506.46	5,336.55	2,597.37	2,348.99	248.38	10.457		
11,500.00	7,870.00	7,823.00	7,823.00	112.89	135.56	-90.00	-2,506.46	5,336.55	2,497.62	2,249.31	248.31	10.058		
11,600.00	7,870.00	7,823.00	7,823.00	112.76	135.56	-90.00	-2,506.46	5,336.55	2,397.89	2,149.65	248.25	9.659		
11,700.00	7,870.00	7,823.00	7,823.00	112.64	135.56	-90.00	-2,506.46	5,336.55	2,298.19	2,050.02	248.17	9.261		
11,800.00	7,870.00	7,823.00	7,823.00	112.53	135.56	-90.00	-2,506.46	5,336.55	2,198.51	1,950.42	248.09	8.862		
11,900.00	7,870.00	7,823.00	7,823.00	112.44	135.56	-90.00	-2,506.46	5,336.55	2,098.86	1,850.87	247.99	8.463		
12,000.00	7,870.00	7,823.00	7,823.00	112.36	135.56	-90.00	-2,506.46	5,336.55	1,999.25	1,751.36	247.89	8.065		
12,100.00	7,870.00	7,823.00	7,823.00	112.29	135.56	-90.00	-2,506.46	5,336.55	1,899.68	1,651.90	247.78	7.667		
12,200.00	7,870.00	7,823.00	7,823.00	112.24	135.56	-90.00	-2,506.46	5,336.55	1,800.15	1,552.50	247.65	7.269		
12,300.00	7,870.00	7,823.00	7,823.00	112.20	135.56	-90.00	-2,506.46	5,336.55	1,700.68	1,453.18	247.50	6.871		
12,400.00	7,870.00	7,823.00	7,823.00	112.17	135.56	-90.00	-2,506.46	5,336.55	1,601.28	1,353.94	247.34	6.474		
12,500.00	7,870.00	7,823.00	7,823.00	112.16	135.56	-90.00	-2,506.46	5,336.55	1,501.96	1,254.81	247.14	6.077		
12,600.00	7,870.00	7,823.00	7,823.00	112.17	135.56	-90.00	-2,506.46	5,336.55	1,402.73	1,155.81	246.92	5.681		
12,700.00	7,870.00	7,823.00	7,823.00	112.19	135.56	-90.00	-2,506.46	5,336.55	1,303.62	1,056.97	246.65	5.285		
12,800.00	7,870.00	7,823.00	7,823.00	112.23	135.56	-90.00	-2,506.46	5,336.55	1,204.66	958.32	246.33	4.890		
12,900.00	7,870.00	7,823.00	7,823.00	112.28	135.56	-90.00	-2,506.46	5,336.55	1,105.88	859.93	245.95	4.496		
13,000.00	7,870.00	7,823.00	7,823.00	112.36	135.56	-90.00	-2,506.46	5,336.55	1,007.35	761.88	245.47	4.104		
13,100.00	7,870.00	7,823.00	7,823.00	112.45	135.56	-90.00	-2,506.46	5,336.55	909.13	664.27	244.87	3.713		
13,200.00	7,870.00	7,823.00	7,823.00	112.56	135.56	-90.00	-2,506.46	5,336.55	811.35	567.27	244.08	3.324		
13,300.00	7,870.00	7,823.00	7,823.00	112.68	135.56	-90.00	-2,506.46	5,336.55	714.19	471.16	243.03	2.939		
13,400.00	7,870.00	7,823.00	7,823.00	112.83	135.56	-90.00	-2,506.46	5,336.55	617.94	376.38	241.56	2.558		
13,500.00	7,870.00	7,823.00	7,823.00	113.00	135.56	-90.00	-2,506.46	5,336.55	523.09	283.68	239.41	2.185		
13,600.00	7,870.00	7,823.00	7,823.00	113.19	135.56	-90.00	-2,506.46	5,336.55	430.58	194.53	236.05	1.824		
13,700.00	7,870.00	7,823.00	7,823.00	113.40	135.56	-90.00	-2,506.46	5,336.55	342.30	111.88	230.42	1.486 Level 3		
13,800.00	7,870.00	7,823.00	7,823.00	113.63	135.56	-90.00	-2,506.46	5,336.55	262.57	42.04	220.54	1.191 Level 2		
13,900.00	7,870.00	7,823.00	7,823.00	113.89	135.56	-90.00	-2,506.46	5,336.55	201.79	-4.29	206.08	0.979 Level 1		
13,991.13	7,870.00	7,823.00	7,823.00	114.15	135.56	-90.00	-2,506.46	5,336.55	180.05	-25.96	206.01	0.874 Level 1, CC		
14,000.00	7,870.00	7,823.00	7,823.00	114.18	135.56	-90.00	-2,506.46	5,336.55	180.27	-27.29	207.55	0.869 Level 1, ES, SF		
14,100.00	7,870.00	7,823.00	7,823.00	114.48	135.56	-90.00	-2,506.46	5,336.55	210.41	-19.69	230.09	0.914 Level 1		

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

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN E UNIT 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,870.00	7,823.00	7,823.00	114.82	135.56	-90.00	-2,506.46	5,336.55	275.76	32.37	243.40	1.133	Level 2	
14,300.00	7,870.00	7,823.00	7,823.00	115.18	135.56	-90.00	-2,506.46	5,336.55	357.52	108.88	248.64	1.438	Level 3	
14,400.00	7,870.00	7,823.00	7,823.00	115.57	135.56	-90.00	-2,506.46	5,336.55	446.76	196.06	250.70	1.782		
14,500.00	7,870.00	7,823.00	7,823.00	115.99	135.56	-90.00	-2,506.46	5,336.55	539.79	288.24	251.55	2.146		
14,600.00	7,870.00	7,823.00	7,823.00	116.44	135.56	-90.00	-2,506.46	5,336.55	634.94	383.05	251.88	2.521		
14,700.00	7,870.00	7,823.00	7,823.00	116.92	135.56	-90.00	-2,506.46	5,336.55	731.38	479.38	252.00	2.902		
14,800.00	7,870.00	7,823.00	7,823.00	117.44	135.56	-90.00	-2,506.46	5,336.55	828.67	576.66	252.01	3.288		
14,900.00	7,870.00	7,823.00	7,823.00	117.98	135.56	-90.00	-2,506.46	5,336.55	926.54	674.57	251.97	3.677		
15,000.00	7,870.00	7,823.00	7,823.00	118.56	135.56	-90.00	-2,506.46	5,336.55	1,024.82	772.91	251.91	4.068		
15,100.00	7,870.00	7,823.00	7,823.00	119.17	135.56	-90.00	-2,506.46	5,336.55	1,123.40	871.56	251.84	4.461		
15,200.00	7,870.00	7,823.00	7,823.00	119.81	135.56	-90.00	-2,506.46	5,336.55	1,222.21	970.44	251.77	4.855		
15,300.00	7,870.00	7,823.00	7,823.00	120.48	135.56	-90.00	-2,506.46	5,336.55	1,321.20	1,069.50	251.70	5.249		
15,400.00	7,870.00	7,823.00	7,823.00	121.19	135.56	-90.00	-2,506.46	5,336.55	1,420.33	1,168.70	251.63	5.644		
15,500.00	7,870.00	7,823.00	7,823.00	121.93	135.56	-90.00	-2,506.46	5,336.55	1,519.58	1,268.01	251.57	6.040		
15,600.00	7,870.00	7,823.00	7,823.00	122.71	135.56	-90.00	-2,506.46	5,336.55	1,618.92	1,367.40	251.51	6.437		
15,700.00	7,870.00	7,823.00	7,823.00	123.52	135.56	-90.00	-2,506.46	5,336.55	1,718.33	1,466.87	251.46	6.833		
15,800.00	7,870.00	7,823.00	7,823.00	124.36	135.56	-90.00	-2,506.46	5,336.55	1,817.81	1,566.40	251.41	7.230		
15,900.00	7,870.00	7,823.00	7,823.00	125.23	135.56	-90.00	-2,506.46	5,336.55	1,917.35	1,665.98	251.37	7.628		
16,000.00	7,870.00	7,823.00	7,823.00	126.14	135.56	-90.00	-2,506.46	5,336.55	2,016.93	1,765.60	251.33	8.025		
16,100.00	7,870.00	7,823.00	7,823.00	127.07	135.56	-90.00	-2,506.46	5,336.55	2,116.55	1,865.25	251.29	8.423		
16,200.00	7,870.00	7,823.00	7,823.00	128.04	135.56	-90.00	-2,506.46	5,336.55	2,216.20	1,964.94	251.26	8.820		
16,300.00	7,870.00	7,823.00	7,823.00	129.04	135.56	-90.00	-2,506.46	5,336.55	2,315.88	2,064.66	251.23	9.218		
16,400.00	7,870.00	7,823.00	7,823.00	130.06	135.56	-90.00	-2,506.46	5,336.55	2,415.59	2,164.39	251.20	9.616		
16,500.00	7,870.00	7,823.00	7,823.00	131.11	135.56	-90.00	-2,506.46	5,336.55	2,515.33	2,264.15	251.18	10.014		
16,600.00	7,870.00	7,823.00	7,823.00	132.19	135.56	-90.00	-2,506.46	5,336.55	2,615.08	2,363.93	251.15	10.412		
16,700.00	7,870.00	7,823.00	7,823.00	133.29	135.56	-90.00	-2,506.46	5,336.55	2,714.85	2,463.72	251.13	10.810		
16,800.00	7,870.00	7,823.00	7,823.00	134.42	135.56	-90.00	-2,506.46	5,336.55	2,814.64	2,563.52	251.12	11.209		
16,900.00	7,870.00	7,823.00	7,823.00	135.57	135.56	-90.00	-2,506.46	5,336.55	2,914.44	2,663.34	251.10	11.607		
17,000.00	7,870.00	7,823.00	7,823.00	136.75	135.56	-90.00	-2,506.46	5,336.55	3,014.26	2,763.17	251.09	12.005		
17,100.00	7,870.00	7,823.00	7,823.00	137.94	135.56	-90.00	-2,506.46	5,336.55	3,114.08	2,863.01	251.07	12.403		
17,200.00	7,870.00	7,823.00	7,823.00	139.16	135.56	-90.00	-2,506.46	5,336.55	3,213.92	2,962.86	251.06	12.801		
17,300.00	7,870.00	7,823.00	7,823.00	140.39	135.56	-90.00	-2,506.46	5,336.55	3,313.77	3,062.72	251.05	13.199		
17,400.00	7,870.00	7,823.00	7,823.00	141.65	135.56	-90.00	-2,506.46	5,336.55	3,413.63	3,162.58	251.04	13.598		
17,500.00	7,870.00	7,823.00	7,823.00	142.92	135.56	-90.00	-2,506.46	5,336.55	3,513.49	3,262.45	251.04	13.996		
17,600.00	7,870.00	7,823.00	7,823.00	144.21	135.56	-90.00	-2,506.46	5,336.55	3,613.36	3,362.33	251.03	14.394		
17,700.00	7,870.00	7,823.00	7,823.00	145.52	135.56	-90.00	-2,506.46	5,336.55	3,713.24	3,462.21	251.03	14.792		
17,800.00	7,870.00	7,823.00	7,823.00	146.84	135.56	-90.00	-2,506.46	5,336.55	3,813.13	3,562.10	251.02	15.190		
17,900.00	7,870.00	7,823.00	7,823.00	148.18	135.56	-90.00	-2,506.46	5,336.55	3,913.02	3,662.00	251.02	15.588		
18,000.00	7,870.00	7,823.00	7,823.00	149.54	135.56	-90.00	-2,506.46	5,336.55	4,012.92	3,761.89	251.02	15.986		
18,100.00	7,870.00	7,823.00	7,823.00	150.90	135.56	-90.00	-2,506.46	5,336.55	4,112.82	3,861.80	251.02	16.384		
18,200.00	7,870.00	7,823.00	7,823.00	152.28	135.56	-90.00	-2,506.46	5,336.55	4,212.72	3,961.70	251.02	16.782		
18,300.00	7,870.00	7,823.00	7,823.00	153.67	135.56	-90.00	-2,506.46	5,336.55	4,312.64	4,061.61	251.02	17.180		
18,400.00	7,870.00	7,823.00	7,823.00	155.07	135.56	-90.00	-2,506.46	5,336.55	4,412.55	4,161.52	251.03	17.578		
18,500.00	7,870.00	7,823.00	7,823.00	156.49	135.56	-90.00	-2,506.46	5,336.55	4,512.47	4,261.44	251.03	17.976		
18,600.00	7,870.00	7,823.00	7,823.00	157.91	135.56	-90.00	-2,506.46	5,336.55	4,612.39	4,361.36	251.03	18.374		
18,700.00	7,870.00	7,823.00	7,823.00	159.35	135.56	-90.00	-2,506.46	5,336.55	4,712.32	4,461.28	251.04	18.771		
18,800.00	7,870.00	7,823.00	7,823.00	160.79	135.56	-90.00	-2,506.46	5,336.55	4,812.24	4,561.20	251.04	19.169		
18,900.00	7,870.00	7,823.00	7,823.00	162.25	135.56	-90.00	-2,506.46	5,336.55	4,912.18	4,661.13	251.05	19.567		
19,000.00	7,870.00	7,823.00	7,823.00	163.71	135.56	-90.00	-2,506.46	5,336.55	5,012.11	4,761.06	251.05	19.964		
19,100.00	7,870.00	7,823.00	7,823.00	165.18	135.56	-90.00	-2,506.46	5,336.55	5,112.05	4,860.99	251.06	20.362		
19,200.00	7,870.00	7,823.00	7,823.00	166.66	135.56	-90.00	-2,506.46	5,336.55	5,211.99	4,960.92	251.07	20.759		
19,300.00	7,870.00	7,823.00	7,823.00	168.15	135.56	-90.00	-2,506.46	5,336.55	5,311.93	5,060.85	251.08	21.156		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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	
19,400.00	7,870.00	7,823.00	7,823.00	169.65	135.56	-90.00	-2,506.46	5,336.55	5,411.87	5,160.78	251.09	21.554	
19,500.00	7,870.00	7,823.00	7,823.00	171.15	135.56	-90.00	-2,506.46	5,336.55	5,511.82	5,260.72	251.10	21.951	
19,600.00	7,870.00	7,823.00	7,823.00	172.66	135.56	-90.00	-2,506.46	5,336.55	5,611.76	5,360.66	251.11	22.348	
19,700.00	7,870.00	7,823.00	7,823.00	174.18	135.56	-90.00	-2,506.46	5,336.55	5,711.71	5,460.60	251.12	22.745	
19,800.00	7,870.00	7,823.00	7,823.00	175.70	135.56	-90.00	-2,506.46	5,336.55	5,811.66	5,560.54	251.13	23.142	
19,889.26	7,870.00	7,823.00	7,823.00	177.06	135.56	-90.00	-2,506.46	5,336.55	5,900.88	5,649.74	251.14	23.497	

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	144.01	-4,237.21	3,076.91	5,236.60					
100.00	100.00	75.00	75.00	0.13	0.62	144.01	-4,237.21	3,076.91	5,236.54	5,235.78	0.76	6,924.798		
200.00	200.00	175.00	175.00	0.49	2.14	144.01	-4,237.21	3,076.91	5,236.54	5,233.91	2.63	1,990.378		
300.00	300.00	275.00	275.00	0.85	3.88	144.01	-4,237.21	3,076.91	5,236.54	5,231.81	4.73	1,105.985		
400.00	399.98	374.98	374.98	1.21	5.63	75.90	-4,237.21	3,076.91	5,236.12	5,229.28	6.83	766.215		
500.00	499.84	474.84	474.84	1.56	7.37	75.98	-4,237.21	3,076.91	5,234.84	5,225.91	8.93	586.043		
600.00	599.45	574.45	574.45	1.93	9.11	76.11	-4,237.21	3,076.91	5,232.73	5,221.69	11.04	474.068		
700.00	698.70	673.70	673.70	2.32	10.84	76.29	-4,237.21	3,076.91	5,229.80	5,216.65	13.15	397.619		
800.00	797.47	772.47	772.47	2.72	12.57	76.53	-4,237.21	3,076.91	5,226.09	5,210.80	15.28	342.004		
900.00	895.62	870.62	870.62	3.16	14.28	76.82	-4,237.21	3,076.91	5,221.61	5,204.18	17.43	299.650		
1,000.00	993.06	968.06	968.06	3.63	15.98	77.15	-4,237.21	3,076.91	5,216.42	5,196.83	19.59	266.261		
1,100.00	1,089.64	1,064.64	1,064.64	4.14	17.67	77.54	-4,237.21	3,076.91	5,210.56	5,188.78	21.78	239.221		
1,200.00	1,185.27	1,160.27	1,160.27	4.70	19.33	77.97	-4,237.21	3,076.91	5,204.09	5,180.09	24.00	216.846		
1,300.00	1,279.82	1,254.82	1,254.82	5.31	20.98	78.44	-4,237.21	3,076.91	5,197.06	5,170.81	26.25	198.005		
1,400.00	1,373.17	1,348.17	1,348.17	5.97	22.61	78.95	-4,237.21	3,076.91	5,189.56	5,161.03	28.53	181.909		
1,500.00	1,465.21	1,440.21	1,440.21	6.69	24.22	79.49	-4,237.21	3,076.91	5,181.64	5,150.80	30.84	167.991		
1,600.00	1,555.84	1,530.84	1,530.84	7.47	25.80	80.08	-4,237.21	3,076.91	5,173.40	5,140.20	33.20	155.834		
1,700.00	1,644.94	1,619.94	1,619.94	8.31	27.36	80.69	-4,237.21	3,076.91	5,164.92	5,129.33	35.59	145.123		
1,800.00	1,732.39	1,707.39	1,707.39	9.23	28.88	81.32	-4,237.21	3,076.91	5,156.29	5,118.27	38.02	135.616		
1,900.00	1,818.11	1,806.89	1,793.11	10.21	30.62	81.98	-4,237.21	3,076.91	5,147.60	5,106.87	40.73	126.374		
2,000.00	1,901.97	1,876.97	1,876.97	11.26	31.84	82.66	-4,237.21	3,076.91	5,138.96	5,095.96	43.00	119.500		
2,100.00	1,983.88	1,958.88	1,958.88	12.38	33.27	83.35	-4,237.21	3,076.91	5,130.47	5,084.92	45.56	112.621		
2,200.00	2,063.74	2,038.74	2,038.74	13.57	34.67	84.05	-4,237.21	3,076.91	5,122.24	5,074.09	48.15	106.390		
2,300.00	2,141.45	2,116.45	2,116.45	14.84	36.02	84.76	-4,237.21	3,076.91	5,114.37	5,063.60	50.77	100.726		
2,327.78	2,162.65	2,137.65	2,137.65	15.21	36.39	84.95	-4,237.21	3,076.91	5,112.27	5,060.76	51.51	99.246		
2,400.00	2,217.51	2,207.49	2,192.51	16.17	37.61	85.35	-4,237.21	3,076.91	5,107.06	5,053.37	53.70	95.111		
2,500.00	2,293.49	2,268.49	2,268.49	17.51	38.68	85.91	-4,237.21	3,076.91	5,100.55	5,044.44	56.11	90.899		
2,600.00	2,369.47	2,344.47	2,344.47	18.86	40.00	86.46	-4,237.21	3,076.91	5,094.87	5,036.07	58.80	86.644		
2,700.00	2,445.45	2,420.45	2,420.45	20.22	41.33	87.02	-4,237.21	3,076.91	5,090.01	5,028.50	61.50	82.762		
2,800.00	2,521.42	2,503.58	2,496.42	21.59	42.78	87.57	-4,237.21	3,076.91	5,085.97	5,021.64	64.33	79.057		
2,900.00	2,597.40	2,572.40	2,572.40	22.97	43.98	88.13	-4,237.21	3,076.91	5,082.77	5,015.85	66.92	75.953		
3,000.00	2,673.38	2,648.38	2,648.38	24.34	45.31	88.69	-4,237.21	3,076.91	5,080.39	5,010.75	69.64	72.957		
3,100.00	2,749.36	2,724.36	2,724.36	25.73	46.63	89.24	-4,237.21	3,076.91	5,078.84	5,006.49	72.35	70.196		
3,200.00	2,825.33	2,800.33	2,800.33	27.11	47.96	89.80	-4,237.21	3,076.91	5,078.13	5,003.06	75.07	67.645		
3,235.63	2,852.41	2,827.41	2,827.41	27.61	48.43	90.00	-4,237.21	3,076.91	5,078.08	5,002.04	76.04	66.782		
3,300.00	2,901.31	2,876.31	2,876.31	28.50	49.28	90.36	-4,237.21	3,076.91	5,078.25	5,000.46	77.79	65.283		
3,400.00	2,977.29	2,952.29	2,952.29	29.90	50.61	90.92	-4,237.21	3,076.91	5,079.20	4,998.70	80.51	63.092		
3,500.00	3,053.27	3,028.27	3,028.27	31.29	51.94	91.47	-4,237.21	3,076.91	5,080.99	4,997.77	83.22	61.055		
3,600.00	3,129.24	3,104.24	3,104.24	32.69	53.26	92.03	-4,237.21	3,076.91	5,083.60	4,997.67	85.93	59.159		
3,700.00	3,205.22	3,180.22	3,180.22	34.08	54.59	92.59	-4,237.21	3,076.91	5,087.05	4,998.41	88.64	57.391		
3,800.00	3,281.20	3,256.20	3,256.20	35.48	55.92	93.14	-4,237.21	3,076.91	5,091.32	4,999.98	91.34	55.740		
3,900.00	3,357.18	3,332.18	3,332.18	36.88	57.24	93.70	-4,237.21	3,076.91	5,096.42	5,002.38	94.04	54.196		
4,000.00	3,433.15	3,408.15	3,408.15	38.29	58.57	94.25	-4,237.21	3,076.91	5,102.34	5,005.61	96.73	52.750		
4,100.00	3,509.13	3,484.13	3,484.13	39.69	59.89	94.81	-4,237.21	3,076.91	5,109.08	5,009.67	99.41	51.394		
4,200.00	3,585.11	3,560.11	3,560.11	41.09	61.22	95.36	-4,237.21	3,076.91	5,116.64	5,014.56	102.09	50.121		
4,300.00	3,661.08	3,636.08	3,636.08	42.50	62.55	95.91	-4,237.21	3,076.91	5,125.02	5,020.26	104.75	48.924		
4,400.00	3,737.06	3,712.06	3,712.06	43.90	63.87	96.46	-4,237.21	3,076.91	5,134.20	5,026.79	107.41	47.799		
4,500.00	3,813.04	3,788.04	3,788.04	45.31	65.20	97.01	-4,237.21	3,076.91	5,144.19	5,034.13	110.06	46.739		
4,600.00	3,889.02	3,864.02	3,864.02	46.71	66.52	97.56	-4,237.21	3,076.91	5,154.98	5,042.28	112.70	45.740		
4,700.00	3,964.99	3,939.99	3,939.99	48.12	67.85	98.11	-4,237.21	3,076.91	5,166.57	5,051.23	115.33	44.797		
4,800.00	4,040.97	4,015.97	4,015.97	49.53	69.18	98.65	-4,237.21	3,076.91	5,178.94	5,060.99	117.95	43.908		
4,900.00	4,116.95	4,108.05	4,091.95	50.94	70.78	99.20	-4,237.21	3,076.91	5,192.10	5,071.26	120.84	42.967		

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

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,192.93	4,167.93	4,167.93	52.35	71.83	99.74	-4,237.21	3,076.91	5,206.04	5,082.89	123.15	42.273		
5,100.00	4,268.90	4,243.90	4,243.90	53.76	73.15	100.28	-4,237.21	3,076.91	5,220.75	5,095.02	125.74	41.521		
5,200.00	4,344.88	4,319.88	4,319.88	55.16	74.48	100.82	-4,237.21	3,076.91	5,236.23	5,107.92	128.31	40.809		
5,300.00	4,420.86	4,404.14	4,395.86	56.57	75.95	101.36	-4,237.21	3,076.91	5,252.47	5,121.46	131.01	40.091		
5,400.00	4,496.84	4,471.84	4,471.84	57.98	77.13	101.89	-4,237.21	3,076.91	5,269.46	5,136.05	133.41	39.497		
5,500.00	4,572.81	4,547.81	4,547.81	59.39	78.46	102.42	-4,237.21	3,076.91	5,287.20	5,151.25	135.95	38.892		
5,600.00	4,648.79	4,623.79	4,623.79	60.81	79.78	102.95	-4,237.21	3,076.91	5,305.67	5,167.20	138.47	38.318		
5,700.00	4,724.77	4,700.23	4,699.77	62.22	81.12	103.48	-4,237.21	3,076.91	5,324.87	5,183.89	140.98	37.771		
5,800.00	4,800.74	4,775.74	4,775.74	63.63	82.44	104.01	-4,237.21	3,076.91	5,344.80	5,201.33	143.46	37.256		
5,900.00	4,876.72	4,851.72	4,851.72	65.04	83.76	104.53	-4,237.21	3,076.91	5,365.43	5,219.49	145.94	36.765		
6,000.00	4,952.70	4,927.70	4,927.70	66.45	85.09	105.05	-4,237.21	3,076.91	5,386.78	5,238.38	148.40	36.299		
6,100.00	5,028.68	5,003.68	5,003.68	67.86	86.41	105.57	-4,237.21	3,076.91	5,408.82	5,257.97	150.85	35.855		
6,200.00	5,104.65	5,050.00	5,050.00	69.27	87.22	105.89	-4,237.21	3,076.91	5,431.63	5,278.88	152.75	35.559		
6,300.00	5,180.63	5,050.00	5,050.00	70.69	87.22	105.89	-4,237.21	3,076.91	5,455.98	5,302.20	153.78	35.479		
6,400.00	5,256.61	5,050.00	5,050.00	72.10	87.22	105.89	-4,237.21	3,076.91	5,482.05	5,327.28	154.77	35.421		
6,500.00	5,332.59	5,050.00	5,050.00	73.51	87.22	105.89	-4,237.21	3,076.91	5,509.81	5,354.10	155.71	35.385		
6,600.00	5,408.56	5,050.00	5,050.00	74.92	87.22	105.89	-4,237.21	3,076.91	5,539.24	5,382.64	156.60	35.371		
6,700.00	5,484.54	5,050.00	5,050.00	76.34	87.22	105.89	-4,237.21	3,076.91	5,570.31	5,412.85	157.45	35.377		
6,800.00	5,560.52	5,050.00	5,050.00	77.75	87.22	105.89	-4,237.21	3,076.91	5,602.99	5,444.72	158.26	35.403		
6,900.00	5,636.50	5,050.00	5,050.00	79.16	87.22	105.89	-4,237.21	3,076.91	5,637.25	5,478.22	159.03	35.449		
7,000.00	5,712.47	5,050.00	5,050.00	80.57	87.22	105.89	-4,237.21	3,076.91	5,673.07	5,513.32	159.75	35.513		
7,100.00	5,788.45	5,050.00	5,050.00	81.99	87.22	105.89	-4,237.21	3,076.91	5,710.42	5,549.99	160.43	35.595		
7,200.00	5,864.43	5,050.00	5,050.00	83.40	87.22	105.89	-4,237.21	3,076.91	5,749.26	5,588.19	161.07	35.695		
7,300.00	5,940.40	5,050.00	5,050.00	84.81	87.22	105.89	-4,237.21	3,076.91	5,789.57	5,627.90	161.67	35.811		
7,400.00	6,016.38	5,050.00	5,050.00	86.23	87.22	105.89	-4,237.21	3,076.91	5,831.32	5,669.09	162.23	35.944		
7,500.00	6,092.36	5,050.00	5,050.00	87.64	87.22	105.89	-4,237.21	3,076.91	5,874.47	5,711.71	162.76	36.093		
7,600.00	6,168.34	5,050.00	5,050.00	89.05	87.22	105.89	-4,237.21	3,076.91	5,919.00	5,755.75	163.25	36.258		
7,700.00	6,244.31	5,050.00	5,050.00	90.47	87.22	105.89	-4,237.21	3,076.91	5,964.87	5,801.17	163.70	36.437		
7,800.00	6,320.29	5,050.00	5,050.00	91.88	87.22	105.89	-4,237.21	3,076.91	6,012.06	5,847.93	164.13	36.631		
7,900.00	6,396.27	5,050.00	5,050.00	93.30	87.22	105.89	-4,237.21	3,076.91	6,060.53	5,896.01	164.51	36.839		
8,000.00	6,472.25	5,050.00	5,050.00	94.71	87.22	105.89	-4,237.21	3,076.91	6,110.25	5,945.37	164.87	37.060		
8,100.00	6,548.22	5,050.00	5,050.00	96.12	87.22	105.89	-4,237.21	3,076.91	6,161.19	5,995.99	165.20	37.295		
8,200.00	6,624.20	5,050.00	5,050.00	97.54	87.22	105.89	-4,237.21	3,076.91	6,213.33	6,047.82	165.50	37.542		
8,300.00	6,700.18	5,050.00	5,050.00	98.95	87.22	105.89	-4,237.21	3,076.91	6,266.62	6,100.85	165.78	37.802		
8,400.00	6,776.16	5,050.00	5,050.00	100.37	87.22	105.89	-4,237.21	3,076.91	6,321.05	6,155.03	166.02	38.073		
8,500.00	6,852.13	5,050.00	5,050.00	101.78	87.22	105.89	-4,237.21	3,076.91	6,376.58	6,210.34	166.25	38.356		
8,600.00	6,928.11	5,050.00	5,050.00	103.20	87.22	105.89	-4,237.21	3,076.91	6,433.19	6,266.75	166.45	38.650		
8,700.00	7,004.09	5,050.00	5,050.00	104.61	87.22	105.89	-4,237.21	3,076.91	6,490.85	6,324.23	166.62	38.955		
8,800.00	7,080.06	5,050.00	5,050.00	106.02	87.22	105.89	-4,237.21	3,076.91	6,549.52	6,382.75	166.78	39.271		
8,900.00	7,156.04	5,050.00	5,050.00	107.44	87.22	105.89	-4,237.21	3,076.91	6,609.19	6,442.28	166.91	39.597		
9,000.00	7,232.02	5,050.00	5,050.00	108.85	87.22	105.89	-4,237.21	3,076.91	6,669.82	6,502.79	167.03	39.932		
9,104.68	7,311.55	5,050.00	5,050.00	110.33	87.22	105.89	-4,237.21	3,076.91	6,734.30	6,567.17	167.13	40.293		
9,150.00	7,346.29	5,050.00	5,050.00	110.97	87.22	100.72	-4,237.21	3,076.91	6,761.10	6,593.93	167.17	40.444		
9,200.00	7,385.15	5,050.00	5,050.00	111.65	87.22	94.68	-4,237.21	3,076.91	6,787.46	6,620.25	167.21	40.592		
9,250.00	7,424.29	5,050.00	5,050.00	112.31	87.22	88.45	-4,237.21	3,076.91	6,810.31	6,643.06	167.25	40.720		
9,300.00	7,463.40	5,050.00	5,050.00	112.93	87.22	82.22	-4,237.21	3,076.91	6,829.50	6,662.23	167.27	40.829		
9,350.00	7,502.19	5,050.00	5,050.00	113.51	87.22	76.20	-4,237.21	3,076.91	6,844.92	6,677.64	167.28	40.919		
9,400.00	7,540.36	5,050.00	5,050.00	114.04	87.22	70.53	-4,237.21	3,076.91	6,856.49	6,689.21	167.27	40.989		
9,450.00	7,577.62	5,050.00	5,050.00	114.53	87.22	65.33	-4,237.21	3,076.91	6,864.13	6,696.88	167.25	41.042		
9,500.00	7,613.70	5,050.00	5,050.00	114.95	87.22	60.66	-4,237.21	3,076.91	6,867.79	6,700.59	167.19	41.077		
9,550.00	7,648.30	5,050.00	5,050.00	115.32	87.22	56.52	-4,237.21	3,076.91	6,867.46	6,700.34	167.12	41.094		
9,600.00	7,681.18	5,050.00	5,050.00	115.63	87.22	52.91	-4,237.21	3,076.91	6,863.13	6,696.12	167.01	41.093		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,650.00	7,712.08	5,050.00	5,050.00	115.88	87.22	49.79	-4,237.21	3,076.91	6,854.84	6,687.96	166.88	41.076		
9,700.00	7,740.76	5,050.00	5,050.00	116.08	87.22	47.10	-4,237.21	3,076.91	6,842.63	6,675.91	166.73	41.041		
9,750.00	7,767.01	5,050.00	5,050.00	116.23	87.22	44.82	-4,237.21	3,076.91	6,826.58	6,660.03	166.55	40.989		
9,800.00	7,790.63	5,050.00	5,050.00	116.33	87.22	42.89	-4,237.21	3,076.91	6,806.77	6,640.42	166.34	40.920		
9,850.00	7,811.44	5,050.00	5,050.00	116.38	87.22	41.27	-4,237.21	3,076.91	6,783.33	6,617.21	166.12	40.833		
9,900.00	7,829.28	5,050.00	5,050.00	116.38	87.22	39.94	-4,237.21	3,076.91	6,756.40	6,590.51	165.89	40.729		
9,950.00	7,844.01	5,050.00	5,050.00	116.35	87.22	38.86	-4,237.21	3,076.91	6,726.14	6,560.51	165.64	40.608		
10,000.00	7,855.52	5,050.00	5,050.00	116.28	87.22	38.00	-4,237.21	3,076.91	6,692.75	6,527.36	165.38	40.468		
10,050.00	7,863.72	5,050.00	5,050.00	116.18	87.22	37.34	-4,237.21	3,076.91	6,656.42	6,491.29	165.13	40.311		
10,100.00	7,868.56	5,050.00	5,050.00	116.06	87.22	36.87	-4,237.21	3,076.91	6,617.39	6,452.52	164.88	40.136		
10,145.94	7,870.00	5,050.00	5,050.00	115.92	87.22	36.57	-4,237.21	3,076.91	6,579.37	6,414.72	164.65	39.959		
10,200.00	7,870.00	5,050.00	5,050.00	115.76	87.22	36.57	-4,237.21	3,076.91	6,533.56	6,369.16	164.39	39.743		
10,300.00	7,870.00	5,050.00	5,050.00	115.46	87.22	36.57	-4,237.21	3,076.91	6,449.15	6,285.24	163.90	39.348		
10,400.00	7,870.00	5,050.00	5,050.00	115.18	87.22	36.57	-4,237.21	3,076.91	6,365.19	6,201.79	163.39	38.957		
10,500.00	7,870.00	5,050.00	5,050.00	114.91	87.22	36.57	-4,237.21	3,076.91	6,281.70	6,118.83	162.86	38.570		
10,600.00	7,870.00	5,050.00	5,050.00	114.65	87.22	36.57	-4,237.21	3,076.91	6,198.69	6,036.37	162.32	38.188		
10,700.00	7,870.00	5,050.00	5,050.00	114.41	87.22	36.57	-4,237.21	3,076.91	6,116.20	5,954.44	161.76	37.811		
10,800.00	7,870.00	5,050.00	5,050.00	114.17	87.22	36.57	-4,237.21	3,076.91	6,034.24	5,873.06	161.18	37.438		
10,900.00	7,870.00	5,050.00	5,050.00	113.95	87.22	36.57	-4,237.21	3,076.91	5,952.83	5,792.25	160.58	37.071		
11,000.00	7,870.00	5,050.00	5,050.00	113.75	87.22	36.57	-4,237.21	3,076.91	5,871.99	5,712.03	159.96	36.709		
11,100.00	7,870.00	5,050.00	5,050.00	113.55	87.22	36.57	-4,237.21	3,076.91	5,791.75	5,632.43	159.32	36.353		
11,200.00	7,870.00	5,050.00	5,050.00	113.37	87.22	36.57	-4,237.21	3,076.91	5,712.13	5,553.48	158.66	36.003		
11,300.00	7,870.00	5,050.00	5,050.00	113.20	87.22	36.57	-4,237.21	3,076.91	5,633.17	5,475.19	157.97	35.659		
11,400.00	7,870.00	5,050.00	5,050.00	113.04	87.22	36.57	-4,237.21	3,076.91	5,554.88	5,397.61	157.27	35.322		
11,500.00	7,870.00	5,050.00	5,050.00	112.89	87.22	36.57	-4,237.21	3,076.91	5,477.30	5,320.76	156.54	34.991		
11,600.00	7,870.00	5,050.00	5,050.00	112.76	87.22	36.57	-4,237.21	3,076.91	5,400.45	5,244.67	155.78	34.667		
11,700.00	7,870.00	5,050.00	5,050.00	112.64	87.22	36.57	-4,237.21	3,076.91	5,324.38	5,169.38	155.00	34.350		
11,800.00	7,870.00	5,050.00	5,050.00	112.53	87.22	36.57	-4,237.21	3,076.91	5,249.11	5,094.91	154.20	34.041		
11,900.00	7,870.00	5,050.00	5,050.00	112.44	87.22	36.57	-4,237.21	3,076.91	5,174.67	5,021.30	153.37	33.740		
12,000.00	7,870.00	5,050.00	5,050.00	112.36	87.22	36.57	-4,237.21	3,076.91	5,101.11	4,948.60	152.51	33.447		
12,100.00	7,870.00	5,050.00	5,050.00	112.29	87.22	36.57	-4,237.21	3,076.91	5,028.46	4,876.83	151.63	33.162		
12,200.00	7,870.00	5,050.00	5,050.00	112.24	87.22	36.57	-4,237.21	3,076.91	4,956.77	4,806.05	150.72	32.887		
12,300.00	7,870.00	5,050.00	5,050.00	112.20	87.22	36.57	-4,237.21	3,076.91	4,886.07	4,736.28	149.79	32.620		
12,400.00	7,870.00	5,050.00	5,050.00	112.17	87.22	36.57	-4,237.21	3,076.91	4,816.41	4,667.58	148.82	32.363		
12,500.00	7,870.00	5,050.00	5,050.00	112.16	87.22	36.57	-4,237.21	3,076.91	4,747.83	4,600.00	147.83	32.116		
12,600.00	7,870.00	5,050.00	5,050.00	112.17	87.22	36.57	-4,237.21	3,076.91	4,680.38	4,533.57	146.82	31.879		
12,700.00	7,870.00	5,050.00	5,050.00	112.19	87.22	36.57	-4,237.21	3,076.91	4,614.12	4,468.35	145.77	31.652		
12,800.00	7,870.00	5,050.00	5,050.00	112.23	87.22	36.57	-4,237.21	3,076.91	4,549.09	4,404.38	144.71	31.437		
12,900.00	7,870.00	5,050.00	5,050.00	112.28	87.22	36.57	-4,237.21	3,076.91	4,485.35	4,341.73	143.61	31.232		
13,000.00	7,870.00	5,050.00	5,050.00	112.36	87.22	36.57	-4,237.21	3,076.91	4,422.94	4,280.44	142.50	31.038		
13,100.00	7,870.00	5,050.00	5,050.00	112.45	87.22	36.57	-4,237.21	3,076.91	4,361.94	4,220.58	141.36	30.856		
13,200.00	7,870.00	5,050.00	5,050.00	112.56	87.22	36.57	-4,237.21	3,076.91	4,302.40	4,162.19	140.21	30.686		
13,300.00	7,870.00	5,050.00	5,050.00	112.68	87.22	36.57	-4,237.21	3,076.91	4,244.38	4,105.34	139.04	30.527		
13,400.00	7,870.00	5,050.00	5,050.00	112.83	87.22	36.57	-4,237.21	3,076.91	4,187.94	4,050.09	137.85	30.380		
13,500.00	7,870.00	5,050.00	5,050.00	113.00	87.22	36.57	-4,237.21	3,076.91	4,133.16	3,996.50	136.66	30.245		
13,600.00	7,870.00	5,050.00	5,050.00	113.19	87.22	36.57	-4,237.21	3,076.91	4,080.09	3,944.63	135.45	30.122		
13,700.00	7,870.00	5,050.00	5,050.00	113.40	87.22	36.57	-4,237.21	3,076.91	4,028.80	3,894.55	134.25	30.010		
13,800.00	7,870.00	5,050.00	5,050.00	113.63	87.22	36.57	-4,237.21	3,076.91	3,979.36	3,846.31	133.05	29.909		
13,900.00	7,870.00	5,050.00	5,050.00	113.89	87.22	36.57	-4,237.21	3,076.91	3,931.85	3,799.99	131.86	29.818		
14,000.00	7,870.00	5,050.00	5,050.00	114.18	87.22	36.57	-4,237.21	3,076.91	3,886.33	3,755.64	130.69	29.738		
14,100.00	7,870.00	5,050.00	5,050.00	114.48	87.22	36.57	-4,237.21	3,076.91	3,842.87	3,713.33	129.54	29.666		
14,200.00	7,870.00	5,050.00	5,050.00	114.82	87.22	36.57	-4,237.21	3,076.91	3,801.55	3,673.13	128.42	29.603		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,300.00	7,870.00	5,050.00	5,050.00	115.18	87.22	36.57	-4,237.21	3,076.91	3,762.43	3,635.09	127.34	29.547		
14,400.00	7,870.00	5,050.00	5,050.00	115.57	87.22	36.57	-4,237.21	3,076.91	3,725.58	3,599.28	126.30	29.497		
14,500.00	7,870.00	5,050.00	5,050.00	115.99	87.22	36.57	-4,237.21	3,076.91	3,691.08	3,565.75	125.33	29.451		
14,600.00	7,870.00	5,050.00	5,050.00	116.44	87.22	36.57	-4,237.21	3,076.91	3,658.99	3,534.56	124.42	29.408		
14,700.00	7,870.00	5,050.00	5,050.00	116.92	87.22	36.57	-4,237.21	3,076.91	3,629.37	3,505.77	123.59	29.366		
14,800.00	7,870.00	5,050.00	5,050.00	117.44	87.22	36.57	-4,237.21	3,076.91	3,602.28	3,479.43	122.85	29.323		
14,900.00	7,870.00	5,050.00	5,050.00	117.98	87.22	36.57	-4,237.21	3,076.91	3,577.78	3,455.58	122.20	29.278		
15,000.00	7,870.00	5,050.00	5,050.00	118.56	87.22	36.57	-4,237.21	3,076.91	3,555.93	3,434.28	121.65	29.230		
15,100.00	7,870.00	5,050.00	5,050.00	119.17	87.22	36.57	-4,237.21	3,076.91	3,536.77	3,415.55	121.22	29.176		
15,200.00	7,870.00	5,050.00	5,050.00	119.81	87.22	36.57	-4,237.21	3,076.91	3,520.35	3,399.44	120.91	29.116		
15,300.00	7,870.00	5,050.00	5,050.00	120.48	87.22	36.57	-4,237.21	3,076.91	3,506.70	3,385.98	120.72	29.048		
15,400.00	7,870.00	5,050.00	5,050.00	121.19	87.22	36.57	-4,237.21	3,076.91	3,495.86	3,375.20	120.66	28.972		
15,500.00	7,870.00	5,050.00	5,050.00	121.93	87.22	36.57	-4,237.21	3,076.91	3,487.86	3,367.12	120.74	28.887		
15,600.00	7,870.00	5,050.00	5,050.00	122.71	87.22	36.57	-4,237.21	3,076.91	3,482.71	3,361.76	120.95	28.794		
15,700.00	7,870.00	5,050.00	5,050.00	123.52	87.22	36.57	-4,237.21	3,076.91	3,480.43	3,359.13	121.30	28.693		
15,729.45	7,870.00	5,050.00	5,050.00	123.76	87.22	36.57	-4,237.21	3,076.91	3,480.31	3,358.88	121.43	28.661	CC, ES	
15,800.00	7,870.00	5,050.00	5,050.00	124.36	87.22	36.57	-4,237.21	3,076.91	3,481.02	3,359.24	121.78	28.584		
15,900.00	7,870.00	5,050.00	5,050.00	125.23	87.22	36.57	-4,237.21	3,076.91	3,484.48	3,362.09	122.39	28.470		
16,000.00	7,870.00	5,050.00	5,050.00	126.14	87.22	36.57	-4,237.21	3,076.91	3,490.81	3,367.68	123.12	28.352		
16,100.00	7,870.00	5,050.00	5,050.00	127.07	87.22	36.57	-4,237.21	3,076.91	3,499.98	3,376.00	123.97	28.232		
16,200.00	7,870.00	5,050.00	5,050.00	128.04	87.22	36.57	-4,237.21	3,076.91	3,511.97	3,387.04	124.93	28.111		
16,300.00	7,870.00	5,050.00	5,050.00	129.04	87.22	36.57	-4,237.21	3,076.91	3,526.76	3,400.77	125.99	27.991		
16,400.00	7,870.00	5,050.00	5,050.00	130.06	87.22	36.57	-4,237.21	3,076.91	3,544.31	3,417.17	127.14	27.876		
16,500.00	7,870.00	5,050.00	5,050.00	131.11	87.22	36.57	-4,237.21	3,076.91	3,564.59	3,436.21	128.37	27.767		
16,600.00	7,870.00	5,050.00	5,050.00	132.19	87.22	36.57	-4,237.21	3,076.91	3,587.53	3,457.86	129.67	27.666		
16,700.00	7,870.00	5,050.00	5,050.00	133.29	87.22	36.57	-4,237.21	3,076.91	3,613.10	3,482.07	131.03	27.574		
16,800.00	7,870.00	5,050.00	5,050.00	134.42	87.22	36.57	-4,237.21	3,076.91	3,641.24	3,508.80	132.44	27.494		
16,900.00	7,870.00	5,050.00	5,050.00	135.57	87.22	36.57	-4,237.21	3,076.91	3,671.88	3,538.00	133.88	27.427		
17,000.00	7,870.00	5,050.00	5,050.00	136.75	87.22	36.57	-4,237.21	3,076.91	3,704.97	3,569.62	135.35	27.373		
17,100.00	7,870.00	5,050.00	5,050.00	137.94	87.22	36.57	-4,237.21	3,076.91	3,740.45	3,603.61	136.84	27.335		
17,200.00	7,870.00	5,050.00	5,050.00	139.16	87.22	36.57	-4,237.21	3,076.91	3,778.23	3,639.90	138.34	27.312		
17,300.00	7,870.00	5,050.00	5,050.00	140.39	87.22	36.57	-4,237.21	3,076.91	3,818.27	3,678.43	139.84	27.305	SF	
17,400.00	7,870.00	5,050.00	5,050.00	141.65	87.22	36.57	-4,237.21	3,076.91	3,860.47	3,719.14	141.33	27.315		
17,500.00	7,870.00	5,050.00	5,050.00	142.92	87.22	36.57	-4,237.21	3,076.91	3,904.79	3,761.97	142.82	27.341		
17,600.00	7,870.00	5,050.00	5,050.00	144.21	87.22	36.57	-4,237.21	3,076.91	3,951.14	3,806.85	144.29	27.384		
17,700.00	7,870.00	5,050.00	5,050.00	145.52	87.22	36.57	-4,237.21	3,076.91	3,999.45	3,853.72	145.73	27.444		
17,800.00	7,870.00	5,050.00	5,050.00	146.84	87.22	36.57	-4,237.21	3,076.91	4,049.65	3,902.50	147.15	27.520		
17,900.00	7,870.00	5,050.00	5,050.00	148.18	87.22	36.57	-4,237.21	3,076.91	4,101.68	3,953.14	148.54	27.613		
18,000.00	7,870.00	5,050.00	5,050.00	149.54	87.22	36.57	-4,237.21	3,076.91	4,155.47	4,005.57	149.90	27.721		
18,100.00	7,870.00	5,050.00	5,050.00	150.90	87.22	36.57	-4,237.21	3,076.91	4,210.94	4,059.72	151.23	27.845		
18,200.00	7,870.00	5,050.00	5,050.00	152.28	87.22	36.57	-4,237.21	3,076.91	4,268.04	4,115.52	152.52	27.984		
18,300.00	7,870.00	5,050.00	5,050.00	153.67	87.22	36.57	-4,237.21	3,076.91	4,326.69	4,172.92	153.77	28.138		
18,400.00	7,870.00	5,050.00	5,050.00	155.07	87.22	36.57	-4,237.21	3,076.91	4,386.84	4,231.86	154.98	28.305		
18,500.00	7,870.00	5,050.00	5,050.00	156.49	87.22	36.57	-4,237.21	3,076.91	4,448.42	4,292.26	156.16	28.486		
18,600.00	7,870.00	5,050.00	5,050.00	157.91	87.22	36.57	-4,237.21	3,076.91	4,511.38	4,354.08	157.30	28.680		
18,700.00	7,870.00	5,050.00	5,050.00	159.35	87.22	36.57	-4,237.21	3,076.91	4,575.66	4,417.26	158.40	28.887		
18,800.00	7,870.00	5,050.00	5,050.00	160.79	87.22	36.57	-4,237.21	3,076.91	4,641.21	4,481.75	159.46	29.106		
18,900.00	7,870.00	5,050.00	5,050.00	162.25	87.22	36.57	-4,237.21	3,076.91	4,707.96	4,547.48	160.48	29.336		
19,000.00	7,870.00	5,050.00	5,050.00	163.71	87.22	36.57	-4,237.21	3,076.91	4,775.88	4,614.41	161.47	29.577		
19,100.00	7,870.00	5,050.00	5,050.00	165.18	87.22	36.57	-4,237.21	3,076.91	4,844.91	4,682.49	162.42	29.829		
19,200.00	7,870.00	5,050.00	5,050.00	166.66	87.22	36.57	-4,237.21	3,076.91	4,915.00	4,751.67	163.34	30.091		
19,300.00	7,870.00	5,050.00	5,050.00	168.15	87.22	36.57	-4,237.21	3,076.91	4,986.12	4,821.90	164.22	30.363		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,400.00	7,870.00	5,050.00	5,050.00	169.65	87.22	36.57	-4,237.21	3,076.91	5,058.21	4,893.14	165.06	30.644	
19,500.00	7,870.00	5,050.00	5,050.00	171.15	87.22	36.57	-4,237.21	3,076.91	5,131.23	4,965.36	165.88	30.934	
19,600.00	7,870.00	5,050.00	5,050.00	172.66	87.22	36.57	-4,237.21	3,076.91	5,205.16	5,038.50	166.66	31.232	
19,700.00	7,870.00	5,050.00	5,050.00	174.18	87.22	36.57	-4,237.21	3,076.91	5,279.94	5,112.53	167.41	31.538	
19,800.00	7,870.00	5,050.00	5,050.00	175.70	87.22	36.57	-4,237.21	3,076.91	5,355.55	5,187.41	168.14	31.852	
19,889.26	7,870.00	5,050.00	5,050.00	177.06	87.22	36.57	-4,237.21	3,076.91	5,423.70	5,254.94	168.76	32.139	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	157.47	-4,237.34	1,757.88	4,587.56					
100.00	100.00	77.00	77.00	0.13	0.63	157.47	-4,237.34	1,757.88	4,587.50	4,586.74	0.77	5,988.419		
200.00	200.00	177.00	177.00	0.49	2.16	157.47	-4,237.34	1,757.88	4,587.50	4,584.85	2.66	1,726.502		
300.00	300.00	277.00	277.00	0.85	3.91	157.47	-4,237.34	1,757.88	4,587.50	4,582.74	4.76	963.577		
400.00	399.98	376.98	376.98	1.21	5.65	89.35	-4,237.34	1,757.88	4,587.48	4,580.62	6.86	668.727		
500.00	499.84	476.84	476.84	1.56	7.40	89.41	-4,237.34	1,757.88	4,587.43	4,578.47	8.96	512.039		
600.00	599.45	576.45	576.45	1.93	9.14	89.52	-4,237.34	1,757.88	4,587.34	4,576.28	11.07	414.559		
700.00	698.70	675.70	675.70	2.32	10.87	89.67	-4,237.34	1,757.88	4,587.26	4,574.08	13.18	347.980		
800.00	797.47	774.47	774.47	2.72	12.59	89.87	-4,237.34	1,757.88	4,587.20	4,571.88	15.31	299.544		
858.05	854.52	831.52	831.52	2.98	13.59	90.00	-4,237.34	1,757.88	4,587.18	4,570.62	16.56	276.957		
900.00	895.62	872.62	872.62	3.16	14.31	90.10	-4,237.34	1,757.88	4,587.19	4,569.73	17.46	262.670		
1,000.00	993.06	970.06	970.06	3.63	16.01	90.37	-4,237.34	1,757.88	4,587.29	4,567.65	19.64	233.620		
1,100.00	1,089.64	1,066.64	1,066.64	4.14	17.69	90.68	-4,237.34	1,757.88	4,587.53	4,565.70	21.83	210.115		
1,200.00	1,185.27	1,162.27	1,162.27	4.70	19.36	91.02	-4,237.34	1,757.88	4,587.99	4,563.93	24.06	190.690		
1,300.00	1,279.82	1,256.82	1,256.82	5.31	21.01	91.39	-4,237.34	1,757.88	4,588.72	4,562.40	26.32	174.359		
1,400.00	1,373.17	1,350.17	1,350.17	5.97	22.64	91.79	-4,237.34	1,757.88	4,589.78	4,561.17	28.61	160.432		
1,500.00	1,465.21	1,442.21	1,442.21	6.69	24.25	92.21	-4,237.34	1,757.88	4,591.26	4,560.33	30.93	148.417		
1,600.00	1,555.84	1,532.84	1,532.84	7.47	25.83	92.64	-4,237.34	1,757.88	4,593.24	4,559.94	33.30	137.949		
1,700.00	1,644.94	1,621.94	1,621.94	8.31	27.38	93.10	-4,237.34	1,757.88	4,595.79	4,560.10	35.70	128.751		
1,800.00	1,732.39	1,709.39	1,709.39	9.23	28.91	93.56	-4,237.34	1,757.88	4,599.01	4,560.88	38.13	120.614		
1,900.00	1,818.11	1,804.89	1,795.11	10.21	30.58	94.03	-4,237.34	1,757.88	4,602.99	4,562.22	40.77	112.896		
2,000.00	1,901.97	1,878.97	1,878.97	11.26	31.87	94.50	-4,237.34	1,757.88	4,607.82	4,564.71	43.11	106.892		
2,100.00	1,983.88	1,960.88	1,960.88	12.38	33.30	94.97	-4,237.34	1,757.88	4,613.59	4,567.95	45.65	101.071		
2,200.00	2,063.74	2,040.74	2,040.74	13.57	34.69	95.43	-4,237.34	1,757.88	4,620.41	4,572.19	48.22	95.821		
2,300.00	2,141.45	2,118.45	2,118.45	14.84	36.05	95.87	-4,237.34	1,757.88	4,628.37	4,577.55	50.82	91.073		
2,327.78	2,162.65	2,139.65	2,139.65	15.21	36.42	95.99	-4,237.34	1,757.88	4,630.79	4,579.24	51.55	89.837		
2,400.00	2,217.51	2,205.49	2,194.51	16.17	37.57	96.44	-4,237.34	1,757.88	4,637.45	4,583.82	53.63	86.466		
2,500.00	2,293.49	2,270.49	2,270.49	17.51	38.70	97.04	-4,237.34	1,757.88	4,647.44	4,591.37	56.07	82.883		
2,600.00	2,369.47	2,346.47	2,346.47	18.86	40.03	97.65	-4,237.34	1,757.88	4,658.32	4,599.62	58.71	79.349		
2,700.00	2,445.45	2,422.45	2,422.45	20.22	41.35	98.26	-4,237.34	1,757.88	4,670.08	4,608.74	61.34	76.133		
2,800.00	2,521.42	2,501.58	2,498.42	21.59	42.74	98.86	-4,237.34	1,757.88	4,682.71	4,618.69	64.03	73.135		
2,900.00	2,597.40	2,574.40	2,574.40	22.97	44.01	99.46	-4,237.34	1,757.88	4,696.21	4,629.61	66.60	70.512		
3,000.00	2,673.38	2,650.38	2,650.38	24.34	45.33	100.06	-4,237.34	1,757.88	4,710.57	4,641.34	69.22	68.047		
3,100.00	2,749.36	2,726.36	2,726.36	25.73	46.66	100.66	-4,237.34	1,757.88	4,725.78	4,653.94	71.84	65.781		
3,200.00	2,825.33	2,802.33	2,802.33	27.11	47.98	101.25	-4,237.34	1,757.88	4,741.83	4,667.38	74.45	63.691		
3,300.00	2,901.31	2,878.31	2,878.31	28.50	49.31	101.84	-4,237.34	1,757.88	4,758.71	4,681.66	77.05	61.761		
3,400.00	2,977.29	2,954.29	2,954.29	29.90	50.64	102.43	-4,237.34	1,757.88	4,776.42	4,696.78	79.64	59.974		
3,500.00	3,053.27	3,030.27	3,030.27	31.29	51.96	103.02	-4,237.34	1,757.88	4,794.95	4,712.73	82.22	58.317		
3,600.00	3,129.24	3,106.24	3,106.24	32.69	53.29	103.60	-4,237.34	1,757.88	4,814.28	4,729.49	84.79	56.777		
3,700.00	3,205.22	3,182.22	3,182.22	34.08	54.62	104.19	-4,237.34	1,757.88	4,834.42	4,747.06	87.35	55.345		
3,800.00	3,281.20	3,258.20	3,258.20	35.48	55.94	104.76	-4,237.34	1,757.88	4,855.33	4,765.44	89.90	54.010		
3,900.00	3,357.18	3,334.18	3,334.18	36.88	57.27	105.34	-4,237.34	1,757.88	4,877.03	4,784.60	92.43	52.763		
4,000.00	3,433.15	3,410.15	3,410.15	38.29	58.59	105.91	-4,237.34	1,757.88	4,899.49	4,804.54	94.95	51.599		
4,100.00	3,509.13	3,486.13	3,486.13	39.69	59.92	106.48	-4,237.34	1,757.88	4,922.71	4,825.25	97.46	50.509		
4,200.00	3,585.11	3,562.11	3,562.11	41.09	61.25	107.05	-4,237.34	1,757.88	4,946.67	4,846.72	99.96	49.488		
4,300.00	3,661.08	3,638.08	3,638.08	42.50	62.57	107.61	-4,237.34	1,757.88	4,971.37	4,868.93	102.44	48.530		
4,400.00	3,737.06	3,714.06	3,714.06	43.90	63.90	108.17	-4,237.34	1,757.88	4,996.80	4,891.89	104.91	47.631		
4,500.00	3,813.04	3,809.96	3,790.04	45.31	65.57	108.72	-4,237.34	1,757.88	5,022.93	4,915.22	107.71	46.635		
4,600.00	3,889.02	3,866.02	3,866.02	46.71	66.55	109.28	-4,237.34	1,757.88	5,049.77	4,939.97	109.80	45.991		
4,700.00	3,964.99	3,941.99	3,941.99	48.12	67.88	109.82	-4,237.34	1,757.88	5,077.30	4,965.07	112.23	45.242		
4,800.00	4,040.97	4,017.97	4,017.97	49.53	69.20	110.37	-4,237.34	1,757.88	5,105.51	4,990.87	114.64	44.537		
4,900.00	4,116.95	4,106.05	4,093.95	50.94	70.74	110.91	-4,237.34	1,757.88	5,134.38	5,017.14	117.24	43.792		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
5,000.00	4,192.93	4,169.93	4,169.93	52.35	71.85	111.44	-4,237.34	1,757.88	5,163.92	5,044.50	119.41	43.244		
5,100.00	4,268.90	4,245.90	4,245.90	53.76	73.18	111.98	-4,237.34	1,757.88	5,194.10	5,072.32	121.78	42.651		
5,200.00	4,344.88	4,321.88	4,321.88	55.16	74.51	112.51	-4,237.34	1,757.88	5,224.91	5,100.78	124.14	42.090		
5,300.00	4,420.86	4,402.14	4,397.86	56.57	75.91	113.03	-4,237.34	1,757.88	5,256.35	5,129.80	126.55	41.536		
5,400.00	4,496.84	4,473.84	4,473.84	57.98	77.16	113.55	-4,237.34	1,757.88	5,288.40	5,159.60	128.80	41.059		
5,500.00	4,572.81	4,549.81	4,549.81	59.39	78.48	114.07	-4,237.34	1,757.88	5,321.06	5,189.95	131.11	40.585		
5,600.00	4,648.79	4,625.79	4,625.79	60.81	79.81	114.58	-4,237.34	1,757.88	5,354.30	5,220.89	133.41	40.136		
5,700.00	4,724.77	4,701.77	4,701.77	62.22	81.14	115.09	-4,237.34	1,757.88	5,388.12	5,252.43	135.69	39.710		
5,800.00	4,800.74	4,777.74	4,777.74	63.63	82.46	115.59	-4,237.34	1,757.88	5,422.51	5,284.56	137.96	39.306		
5,900.00	4,876.72	4,853.72	4,853.72	65.04	83.79	116.09	-4,237.34	1,757.88	5,457.46	5,317.25	140.21	38.924		
6,000.00	4,952.70	4,929.70	4,929.70	66.45	85.11	116.59	-4,237.34	1,757.88	5,492.96	5,350.51	142.45	38.561		
6,100.00	5,028.68	5,005.68	5,005.68	67.86	86.44	117.08	-4,237.34	1,757.88	5,528.99	5,384.31	144.68	38.216		
6,200.00	5,104.65	5,081.65	5,081.65	69.27	87.77	117.57	-4,237.34	1,757.88	5,565.55	5,418.66	146.89	37.889		
6,300.00	5,180.63	5,157.63	5,157.63	70.69	89.09	118.05	-4,237.34	1,757.88	5,602.63	5,453.53	149.09	37.578		
6,400.00	5,256.61	5,233.61	5,233.61	72.10	90.42	118.53	-4,237.34	1,757.88	5,640.21	5,488.93	151.28	37.283		
6,500.00	5,332.59	5,309.59	5,309.59	73.51	91.74	119.00	-4,237.34	1,757.88	5,678.28	5,524.83	153.45	37.003		
6,600.00	5,408.56	5,385.56	5,385.56	74.92	93.07	119.47	-4,237.34	1,757.88	5,716.85	5,561.23	155.62	36.737		
6,700.00	5,484.54	5,461.54	5,461.54	76.34	94.40	119.94	-4,237.34	1,757.88	5,755.90	5,598.34	157.79	36.533		
6,800.00	5,560.52	5,537.52	5,537.52	77.75	95.72	120.41	-4,237.34	1,757.88	5,796.05	5,637.77	159.96	36.319		
6,900.00	5,636.50	5,613.50	5,613.50	79.16	97.04	120.88	-4,237.34	1,757.88	5,837.64	5,678.68	162.13	36.122		
7,000.00	5,712.47	5,689.47	5,689.47	80.57	98.36	121.35	-4,237.34	1,757.88	5,880.64	5,721.03	164.30	35.942		
7,100.00	5,788.45	5,765.45	5,765.45	81.99	99.68	121.82	-4,237.34	1,757.88	5,925.02	5,764.79	166.47	35.779		
7,200.00	5,864.43	5,841.43	5,841.43	83.40	101.00	122.29	-4,237.34	1,757.88	5,970.74	5,809.94	168.64	35.632		
7,300.00	5,940.40	5,917.40	5,917.40	84.81	102.32	122.76	-4,237.34	1,757.88	6,017.77	5,856.44	170.81	35.499		
7,400.00	6,016.38	5,993.38	5,993.38	86.23	103.64	123.23	-4,237.34	1,757.88	6,066.09	5,904.25	172.98	35.378		
7,500.00	6,092.36	6,069.36	6,069.36	87.64	104.96	123.70	-4,237.34	1,757.88	6,115.66	5,953.35	175.15	35.266		
7,600.00	6,168.34	6,145.34	6,145.34	89.05	106.28	124.17	-4,237.34	1,757.88	6,166.45	6,003.71	177.32	35.162		
7,700.00	6,244.31	6,221.31	6,221.31	90.47	107.60	124.64	-4,237.34	1,757.88	6,218.44	6,055.29	179.49	35.066		
7,800.00	6,320.29	6,297.29	6,297.29	91.88	108.92	125.11	-4,237.34	1,757.88	6,271.59	6,108.07	181.66	34.977		
7,900.00	6,396.27	6,373.27	6,373.27	93.30	110.24	125.58	-4,237.34	1,757.88	6,325.88	6,162.01	183.83	34.893		
8,000.00	6,472.25	6,449.25	6,449.25	94.71	111.56	126.05	-4,237.34	1,757.88	6,381.27	6,217.08	185.99	34.815		
8,100.00	6,548.22	6,525.22	6,525.22	96.12	112.88	126.52	-4,237.34	1,757.88	6,437.74	6,273.26	188.16	34.742		
8,200.00	6,624.20	6,601.20	6,601.20	97.54	114.20	126.99	-4,237.34	1,757.88	6,495.26	6,330.50	190.33	34.674		
8,300.00	6,700.18	6,677.18	6,677.18	98.95	115.52	127.46	-4,237.34	1,757.88	6,553.79	6,388.80	192.50	34.611		
8,400.00	6,776.16	6,753.16	6,753.16	100.37	116.84	127.93	-4,237.34	1,757.88	6,613.33	6,448.11	194.67	34.552		
8,500.00	6,852.13	6,829.13	6,829.13	101.78	118.16	128.40	-4,237.34	1,757.88	6,673.83	6,508.40	196.84	34.497		
8,600.00	6,928.11	6,905.11	6,905.11	103.20	119.48	128.87	-4,237.34	1,757.88	6,735.27	6,569.67	199.01	34.446		
8,700.00	7,004.09	6,981.09	6,981.09	104.61	120.80	129.34	-4,237.34	1,757.88	6,797.62	6,631.86	201.18	34.398		
8,800.00	7,080.06	7,057.06	7,057.06	106.02	122.12	129.81	-4,237.34	1,757.88	6,860.87	6,694.97	203.35	34.354		
8,900.00	7,156.04	7,133.04	7,133.04	107.44	123.44	130.28	-4,237.34	1,757.88	6,924.98	6,758.96	205.52	34.314		
9,000.00	7,232.02	7,209.02	7,209.02	108.85	124.76	130.75	-4,237.34	1,757.88	6,989.94	6,823.80	207.69	34.277		
9,104.68	7,311.55	7,288.55	7,288.55	110.33	126.08	131.22	-4,237.34	1,757.88	7,058.81	6,892.58	209.86	34.243		
9,150.00	7,346.29	7,323.29	7,323.29	110.97	127.40	131.69	-4,237.34	1,757.88	7,087.57	6,921.29	212.03	34.212		
9,200.00	7,385.15	7,362.15	7,362.15	111.65	128.72	132.16	-4,237.34	1,757.88	7,116.27	6,949.94	214.20	34.183		
9,250.00	7,424.29	7,401.29	7,401.29	112.31	130.04	132.63	-4,237.34	1,757.88	7,141.62	6,975.23	216.37	34.155		
9,300.00	7,463.40	7,440.40	7,440.40	112.93	131.36	133.10	-4,237.34	1,757.88	7,163.46	6,997.02	218.54	34.128		
9,350.00	7,502.19	7,479.19	7,479.19	113.51	132.68	133.57	-4,237.34	1,757.88	7,181.66	7,015.17	220.71	34.102		
9,400.00	7,540.36	7,517.36	7,517.36	114.04	134.00	134.04	-4,237.34	1,757.88	7,196.12	7,029.58	222.88	34.077		
9,450.00	7,577.62	7,554.62	7,554.62	114.53	135.32	134.51	-4,237.34	1,757.88	7,206.74	7,040.17	225.05	34.052		
9,500.00	7,613.70	7,590.70	7,590.70	114.95	136.64	134.98	-4,237.34	1,757.88	7,213.46	7,046.88	227.22	34.027		
9,550.00	7,648.30	7,625.30	7,625.30	115.32	137.96	135.45	-4,237.34	1,757.88	7,216.24	7,049.66	229.39	34.002		
9,600.00	7,681.18	7,658.18	7,658.18	115.63	139.28	135.92	-4,237.34	1,757.88	7,215.06	7,048.50	231.56	33.977		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,650.00	7,712.08	5,450.00	5,450.00	115.88	94.20	60.17	-4,237.34	1,757.88	7,209.93	7,043.42	166.51	43.300		
9,700.00	7,740.76	5,450.00	5,450.00	116.08	94.20	57.66	-4,237.34	1,757.88	7,200.89	7,034.44	166.44	43.263		
9,750.00	7,767.01	5,450.00	5,450.00	116.23	94.20	55.63	-4,237.34	1,757.88	7,187.98	7,021.62	166.35	43.209		
9,800.00	7,790.63	5,450.00	5,450.00	116.33	94.20	54.04	-4,237.34	1,757.88	7,171.28	7,005.03	166.25	43.137		
9,850.00	7,811.44	5,450.00	5,450.00	116.38	94.20	52.88	-4,237.34	1,757.88	7,150.89	6,984.77	166.12	43.047		
9,900.00	7,829.28	5,450.00	5,450.00	116.38	94.20	52.12	-4,237.34	1,757.88	7,126.94	6,960.97	165.97	42.941		
9,950.00	7,844.01	5,450.00	5,450.00	116.35	94.20	51.76	-4,237.34	1,757.88	7,099.58	6,933.77	165.82	42.816		
10,000.00	7,855.52	5,450.00	5,450.00	116.28	94.20	51.81	-4,237.34	1,757.88	7,068.98	6,903.33	165.65	42.674		
10,050.00	7,863.72	5,450.00	5,450.00	116.18	94.20	52.31	-4,237.34	1,757.88	7,035.32	6,869.84	165.48	42.515		
10,100.00	7,868.56	5,450.00	5,450.00	116.06	94.20	53.31	-4,237.34	1,757.88	6,998.82	6,833.51	165.31	42.338		
10,145.94	7,870.00	5,450.00	5,450.00	115.92	94.20	54.76	-4,237.34	1,757.88	6,962.99	6,797.83	165.16	42.160		
10,200.00	7,870.00	5,450.00	5,450.00	115.76	94.20	54.76	-4,237.34	1,757.88	6,919.68	6,754.70	164.98	41.943		
10,300.00	7,870.00	5,450.00	5,450.00	115.46	94.20	54.76	-4,237.34	1,757.88	6,839.96	6,675.32	164.64	41.545		
10,400.00	7,870.00	5,450.00	5,450.00	115.18	94.20	54.76	-4,237.34	1,757.88	6,760.79	6,596.50	164.30	41.150		
10,500.00	7,870.00	5,450.00	5,450.00	114.91	94.20	54.76	-4,237.34	1,757.88	6,682.18	6,518.23	163.95	40.758		
10,600.00	7,870.00	5,450.00	5,450.00	114.65	94.20	54.76	-4,237.34	1,757.88	6,604.14	6,440.55	163.59	40.370		
10,700.00	7,870.00	5,450.00	5,450.00	114.41	94.20	54.76	-4,237.34	1,757.88	6,526.71	6,363.48	163.23	39.985		
10,800.00	7,870.00	5,450.00	5,450.00	114.17	94.20	54.76	-4,237.34	1,757.88	6,449.89	6,287.03	162.86	39.604		
10,900.00	7,870.00	5,450.00	5,450.00	113.95	94.20	54.76	-4,237.34	1,757.88	6,373.72	6,211.24	162.48	39.227		
11,000.00	7,870.00	5,450.00	5,450.00	113.75	94.20	54.76	-4,237.34	1,757.88	6,298.21	6,136.11	162.10	38.854		
11,100.00	7,870.00	5,450.00	5,450.00	113.55	94.20	54.76	-4,237.34	1,757.88	6,223.40	6,061.69	161.71	38.485		
11,200.00	7,870.00	5,450.00	5,450.00	113.37	94.20	54.76	-4,237.34	1,757.88	6,149.30	5,987.98	161.32	38.119		
11,300.00	7,870.00	5,450.00	5,450.00	113.20	94.20	54.76	-4,237.34	1,757.88	6,075.94	5,915.03	160.92	37.758		
11,400.00	7,870.00	5,450.00	5,450.00	113.04	94.20	54.76	-4,237.34	1,757.88	6,003.36	5,842.85	160.51	37.402		
11,500.00	7,870.00	5,450.00	5,450.00	112.89	94.20	54.76	-4,237.34	1,757.88	5,931.57	5,771.47	160.10	37.049		
11,600.00	7,870.00	5,450.00	5,450.00	112.76	94.20	54.76	-4,237.34	1,757.88	5,860.61	5,700.92	159.68	36.702		
11,700.00	7,870.00	5,450.00	5,450.00	112.64	94.20	54.76	-4,237.34	1,757.88	5,790.50	5,631.24	159.26	36.359		
11,800.00	7,870.00	5,450.00	5,450.00	112.53	94.20	54.76	-4,237.34	1,757.88	5,721.28	5,562.45	158.84	36.020		
11,900.00	7,870.00	5,450.00	5,450.00	112.44	94.20	54.76	-4,237.34	1,757.88	5,652.99	5,494.58	158.41	35.687		
12,000.00	7,870.00	5,450.00	5,450.00	112.36	94.20	54.76	-4,237.34	1,757.88	5,585.65	5,427.68	157.97	35.358		
12,100.00	7,870.00	5,450.00	5,450.00	112.29	94.20	54.76	-4,237.34	1,757.88	5,519.30	5,361.76	157.54	35.034		
12,200.00	7,870.00	5,450.00	5,450.00	112.24	94.20	54.76	-4,237.34	1,757.88	5,453.98	5,296.87	157.10	34.716		
12,300.00	7,870.00	5,450.00	5,450.00	112.20	94.20	54.76	-4,237.34	1,757.88	5,389.72	5,233.05	156.67	34.402		
12,400.00	7,870.00	5,450.00	5,450.00	112.17	94.20	54.76	-4,237.34	1,757.88	5,326.56	5,170.33	156.23	34.094		
12,500.00	7,870.00	5,450.00	5,450.00	112.16	94.20	54.76	-4,237.34	1,757.88	5,264.55	5,108.75	155.79	33.792		
12,600.00	7,870.00	5,450.00	5,450.00	112.17	94.20	54.76	-4,237.34	1,757.88	5,203.72	5,048.36	155.36	33.494		
12,700.00	7,870.00	5,450.00	5,450.00	112.19	94.20	54.76	-4,237.34	1,757.88	5,144.11	4,989.18	154.93	33.203		
12,800.00	7,870.00	5,450.00	5,450.00	112.23	94.20	54.76	-4,237.34	1,757.88	5,085.77	4,931.27	154.51	32.916		
12,900.00	7,870.00	5,450.00	5,450.00	112.28	94.20	54.76	-4,237.34	1,757.88	5,028.74	4,874.66	154.09	32.636		
13,000.00	7,870.00	5,450.00	5,450.00	112.36	94.20	54.76	-4,237.34	1,757.88	4,973.07	4,819.40	153.68	32.361		
13,100.00	7,870.00	5,450.00	5,450.00	112.45	94.20	54.76	-4,237.34	1,757.88	4,918.81	4,765.53	153.27	32.091		
13,200.00	7,870.00	5,450.00	5,450.00	112.56	94.20	54.76	-4,237.34	1,757.88	4,865.99	4,713.11	152.88	31.828		
13,300.00	7,870.00	5,450.00	5,450.00	112.68	94.20	54.76	-4,237.34	1,757.88	4,814.67	4,662.16	152.51	31.570		
13,400.00	7,870.00	5,450.00	5,450.00	112.83	94.20	54.76	-4,237.34	1,757.88	4,764.90	4,612.75	152.15	31.318		
13,500.00	7,870.00	5,450.00	5,450.00	113.00	94.20	54.76	-4,237.34	1,757.88	4,716.72	4,564.92	151.80	31.072		
13,600.00	7,870.00	5,450.00	5,450.00	113.19	94.20	54.76	-4,237.34	1,757.88	4,670.19	4,518.71	151.48	30.831		
13,700.00	7,870.00	5,450.00	5,450.00	113.40	94.20	54.76	-4,237.34	1,757.88	4,625.35	4,474.18	151.17	30.596		
13,800.00	7,870.00	5,450.00	5,450.00	113.63	94.20	54.76	-4,237.34	1,757.88	4,582.25	4,431.36	150.89	30.367		
13,900.00	7,870.00	5,450.00	5,450.00	113.89	94.20	54.76	-4,237.34	1,757.88	4,540.95	4,390.31	150.64	30.144		
14,000.00	7,870.00	5,450.00	5,450.00	114.18	94.20	54.76	-4,237.34	1,757.88	4,501.49	4,351.08	150.42	29.927		
14,100.00	7,870.00	5,450.00	5,450.00	114.48	94.20	54.76	-4,237.34	1,757.88	4,463.93	4,313.71	150.22	29.716		
14,200.00	7,870.00	5,450.00	5,450.00	114.82	94.20	54.76	-4,237.34	1,757.88	4,428.30	4,278.24	150.06	29.510		

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

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,300.00	7,870.00	5,450.00	5,450.00	115.18	94.20	54.76	-4,237.34	1,757.88	4,394.66	4,244.73	149.93	29.311		
14,400.00	7,870.00	5,450.00	5,450.00	115.57	94.20	54.76	-4,237.34	1,757.88	4,363.06	4,213.21	149.84	29.117		
14,500.00	7,870.00	5,450.00	5,450.00	115.99	94.20	54.76	-4,237.34	1,757.88	4,333.53	4,183.73	149.79	28.930		
14,600.00	7,870.00	5,450.00	5,450.00	116.44	94.20	54.76	-4,237.34	1,757.88	4,306.12	4,156.33	149.78	28.749		
14,700.00	7,870.00	5,450.00	5,450.00	116.92	94.20	54.76	-4,237.34	1,757.88	4,280.87	4,131.05	149.82	28.574		
14,800.00	7,870.00	5,450.00	5,450.00	117.44	94.20	54.76	-4,237.34	1,757.88	4,257.82	4,107.93	149.89	28.406		
14,900.00	7,870.00	5,450.00	5,450.00	117.98	94.20	54.76	-4,237.34	1,757.88	4,237.01	4,086.99	150.01	28.244		
15,000.00	7,870.00	5,450.00	5,450.00	118.56	94.20	54.76	-4,237.34	1,757.88	4,218.46	4,068.28	150.18	28.089		
15,100.00	7,870.00	5,450.00	5,450.00	119.17	94.20	54.76	-4,237.34	1,757.88	4,202.22	4,051.83	150.39	27.942		
15,200.00	7,870.00	5,450.00	5,450.00	119.81	94.20	54.76	-4,237.34	1,757.88	4,188.30	4,037.65	150.65	27.801		
15,300.00	7,870.00	5,450.00	5,450.00	120.48	94.20	54.76	-4,237.34	1,757.88	4,176.73	4,025.77	150.95	27.669		
15,400.00	7,870.00	5,450.00	5,450.00	121.19	94.20	54.76	-4,237.34	1,757.88	4,167.52	4,016.22	151.30	27.544		
15,500.00	7,870.00	5,450.00	5,450.00	121.93	94.20	54.76	-4,237.34	1,757.88	4,160.70	4,009.01	151.69	27.428		
15,600.00	7,870.00	5,450.00	5,450.00	122.71	94.20	54.76	-4,237.34	1,757.88	4,156.28	4,004.15	152.13	27.321		
15,700.00	7,870.00	5,450.00	5,450.00	123.52	94.20	54.76	-4,237.34	1,757.88	4,154.25	4,001.65	152.61	27.222		
15,734.01	7,870.00	5,450.00	5,450.00	123.80	94.20	54.76	-4,237.34	1,757.88	4,154.12	4,001.34	152.78	27.190	CC, ES	
15,800.00	7,870.00	5,450.00	5,450.00	124.36	94.20	54.76	-4,237.34	1,757.88	4,154.64	4,001.52	153.12	27.133		
15,900.00	7,870.00	5,450.00	5,450.00	125.23	94.20	54.76	-4,237.34	1,757.88	4,157.43	4,003.75	153.68	27.053		
16,000.00	7,870.00	5,450.00	5,450.00	126.14	94.20	54.76	-4,237.34	1,757.88	4,162.62	4,008.36	154.27	26.983		
16,100.00	7,870.00	5,450.00	5,450.00	127.07	94.20	54.76	-4,237.34	1,757.88	4,170.21	4,015.32	154.89	26.924		
16,200.00	7,870.00	5,450.00	5,450.00	128.04	94.20	54.76	-4,237.34	1,757.88	4,180.17	4,024.63	155.54	26.876		
16,300.00	7,870.00	5,450.00	5,450.00	129.04	94.20	54.76	-4,237.34	1,757.88	4,192.50	4,036.28	156.22	26.838		
16,400.00	7,870.00	5,450.00	5,450.00	130.06	94.20	54.76	-4,237.34	1,757.88	4,207.16	4,050.25	156.92	26.811		
16,500.00	7,870.00	5,450.00	5,450.00	131.11	94.20	54.76	-4,237.34	1,757.88	4,224.15	4,066.51	157.64	26.796		
16,600.00	7,870.00	5,450.00	5,450.00	132.19	94.20	54.76	-4,237.34	1,757.88	4,243.42	4,085.04	158.38	26.793	SF	
16,700.00	7,870.00	5,450.00	5,450.00	133.29	94.20	54.76	-4,237.34	1,757.88	4,264.95	4,105.82	159.14	26.801		
16,800.00	7,870.00	5,450.00	5,450.00	134.42	94.20	54.76	-4,237.34	1,757.88	4,288.71	4,128.81	159.90	26.821		
16,900.00	7,870.00	5,450.00	5,450.00	135.57	94.20	54.76	-4,237.34	1,757.88	4,314.65	4,153.97	160.68	26.853		
17,000.00	7,870.00	5,450.00	5,450.00	136.75	94.20	54.76	-4,237.34	1,757.88	4,342.74	4,181.28	161.46	26.897		
17,100.00	7,870.00	5,450.00	5,450.00	137.94	94.20	54.76	-4,237.34	1,757.88	4,372.94	4,210.70	162.24	26.953		
17,200.00	7,870.00	5,450.00	5,450.00	139.16	94.20	54.76	-4,237.34	1,757.88	4,405.20	4,242.18	163.03	27.021		
17,300.00	7,870.00	5,450.00	5,450.00	140.39	94.20	54.76	-4,237.34	1,757.88	4,439.48	4,275.67	163.81	27.101		
17,400.00	7,870.00	5,450.00	5,450.00	141.65	94.20	54.76	-4,237.34	1,757.88	4,475.74	4,311.15	164.59	27.193		
17,500.00	7,870.00	5,450.00	5,450.00	142.92	94.20	54.76	-4,237.34	1,757.88	4,513.91	4,348.55	165.36	27.297		
17,600.00	7,870.00	5,450.00	5,450.00	144.21	94.20	54.76	-4,237.34	1,757.88	4,553.97	4,387.84	166.13	27.413		
17,700.00	7,870.00	5,450.00	5,450.00	145.52	94.20	54.76	-4,237.34	1,757.88	4,595.85	4,428.97	166.88	27.540		
17,800.00	7,870.00	5,450.00	5,450.00	146.84	94.20	54.76	-4,237.34	1,757.88	4,639.50	4,471.88	167.62	27.678		
17,900.00	7,870.00	5,450.00	5,450.00	148.18	94.20	54.76	-4,237.34	1,757.88	4,684.89	4,516.54	168.35	27.828		
18,000.00	7,870.00	5,450.00	5,450.00	149.54	94.20	54.76	-4,237.34	1,757.88	4,731.95	4,562.88	169.07	27.988		
18,100.00	7,870.00	5,450.00	5,450.00	150.90	94.20	54.76	-4,237.34	1,757.88	4,780.65	4,610.88	169.77	28.159		
18,200.00	7,870.00	5,450.00	5,450.00	152.28	94.20	54.76	-4,237.34	1,757.88	4,830.92	4,660.46	170.46	28.341		
18,300.00	7,870.00	5,450.00	5,450.00	153.67	94.20	54.76	-4,237.34	1,757.88	4,882.72	4,711.59	171.13	28.532		
18,400.00	7,870.00	5,450.00	5,450.00	155.07	94.20	54.76	-4,237.34	1,757.88	4,936.01	4,764.23	171.78	28.734		
18,500.00	7,870.00	5,450.00	5,450.00	156.49	94.20	54.76	-4,237.34	1,757.88	4,990.73	4,818.31	172.42	28.945		
18,600.00	7,870.00	5,450.00	5,450.00	157.91	94.20	54.76	-4,237.34	1,757.88	5,046.84	4,873.80	173.04	29.166		
18,700.00	7,870.00	5,450.00	5,450.00	159.35	94.20	54.76	-4,237.34	1,757.88	5,104.29	4,930.65	173.64	29.396		
18,800.00	7,870.00	5,450.00	5,450.00	160.79	94.20	54.76	-4,237.34	1,757.88	5,163.04	4,988.82	174.22	29.634		
18,900.00	7,870.00	5,450.00	5,450.00	162.25	94.20	54.76	-4,237.34	1,757.88	5,223.04	5,048.25	174.79	29.882		
19,000.00	7,870.00	5,450.00	5,450.00	163.71	94.20	54.76	-4,237.34	1,757.88	5,284.26	5,108.92	175.34	30.137		
19,100.00	7,870.00	5,450.00	5,450.00	165.18	94.20	54.76	-4,237.34	1,757.88	5,346.64	5,170.77	175.87	30.401		
19,200.00	7,870.00	5,450.00	5,450.00	166.66	94.20	54.76	-4,237.34	1,757.88	5,410.16	5,233.77	176.38	30.673		
19,300.00	7,870.00	5,450.00	5,450.00	168.15	94.20	54.76	-4,237.34	1,757.88	5,474.76	5,297.88	176.88	30.952		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,400.00	7,870.00	5,450.00	5,450.00	169.65	94.20	54.76	-4,237.34	1,757.88	5,540.41	5,363.05	177.36	31.238	
19,500.00	7,870.00	5,450.00	5,450.00	171.15	94.20	54.76	-4,237.34	1,757.88	5,607.08	5,429.26	177.82	31.532	
19,600.00	7,870.00	5,450.00	5,450.00	172.66	94.20	54.76	-4,237.34	1,757.88	5,674.73	5,496.46	178.27	31.832	
19,700.00	7,870.00	5,450.00	5,450.00	174.18	94.20	54.76	-4,237.34	1,757.88	5,743.32	5,564.62	178.70	32.139	
19,800.00	7,870.00	5,450.00	5,450.00	175.70	94.20	54.76	-4,237.34	1,757.88	5,812.83	5,633.71	179.12	32.452	
19,889.26	7,870.00	5,450.00	5,450.00	177.06	94.20	54.76	-4,237.34	1,757.88	5,875.61	5,696.13	179.48	32.737	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	155.46	-4,568.82	2,085.56	5,022.32					
100.00	100.00	72.66	72.66	0.13	0.12	155.47	-4,569.04	2,085.44	5,022.52	5,022.27	0.25	N/A		
200.00	200.00	168.16	168.16	0.49	0.40	155.47	-4,569.81	2,084.99	5,023.05	5,022.15	0.90	5,596.438		
300.00	300.00	288.05	288.05	0.85	0.83	155.48	-4,570.50	2,084.49	5,023.41	5,021.72	1.69	2,980.326		
400.00	399.98	382.95	382.94	1.21	1.17	87.36	-4,570.70	2,084.37	5,023.47	5,021.09	2.38	2,112.717		
500.00	499.84	484.83	484.82	1.56	1.54	87.42	-4,570.94	2,084.38	5,023.45	5,020.35	3.10	1,622.121		
600.00	599.45	614.68	614.67	1.93	2.00	87.57	-4,571.18	2,083.72	5,023.04	5,019.12	3.92	1,280.005		
700.00	698.70	779.35	779.32	2.32	2.56	87.84	-4,569.79	2,081.76	5,021.17	5,016.29	4.88	1,029.512		
800.00	797.47	873.01	872.96	2.72	2.89	88.06	-4,568.50	2,080.70	5,018.87	5,013.26	5.61	894.979		
900.00	895.62	971.41	971.35	3.16	3.23	88.32	-4,567.21	2,079.76	5,016.63	5,010.24	6.39	785.613		
1,000.00	993.06	1,102.67	1,102.59	3.63	3.69	88.72	-4,565.04	2,078.45	5,014.09	5,006.77	7.31	685.526		
1,100.00	1,089.64	1,174.27	1,174.17	4.14	3.94	88.98	-4,563.79	2,077.68	5,011.44	5,003.36	8.08	620.405		
1,200.00	1,185.27	1,260.83	1,260.72	4.70	4.24	89.32	-4,562.57	2,076.87	5,009.24	5,000.30	8.94	560.345		
1,300.00	1,279.82	1,346.47	1,346.35	5.31	4.54	89.68	-4,561.39	2,076.22	5,007.28	4,997.43	9.85	508.374		
1,400.00	1,373.17	1,424.47	1,424.34	5.97	4.82	90.03	-4,560.21	2,075.46	5,005.80	4,995.01	10.79	464.002		
1,500.00	1,465.21	1,500.00	1,499.87	6.69	5.09	90.39	-4,560.07	2,074.79	5,004.90	4,993.12	11.78	424.952		
1,600.00	1,555.84	1,584.10	1,583.96	7.47	5.39	90.81	-4,559.66	2,074.12	5,004.57	4,991.71	12.86	389.185		
1,612.19	1,566.79	1,594.28	1,594.14	7.57	5.43	90.86	-4,559.62	2,074.04	5,004.56	4,991.56	13.00	385.015		
1,700.00	1,644.94	1,678.26	1,678.12	8.31	5.73	91.30	-4,559.24	2,073.34	5,004.71	4,990.66	14.04	356.441		
1,800.00	1,732.39	1,753.49	1,753.35	9.23	6.00	91.71	-4,558.93	2,072.65	5,005.37	4,990.15	15.22	328.846		
1,900.00	1,818.11	1,826.90	1,826.75	10.21	6.26	92.12	-4,558.85	2,072.04	5,006.93	4,990.47	16.46	304.146		
2,000.00	1,901.97	1,910.03	1,909.88	11.26	6.55	92.60	-4,558.91	2,071.15	5,009.27	4,991.46	17.81	281.307		
2,100.00	1,983.88	1,991.34	1,991.18	12.38	6.84	93.08	-4,558.99	2,070.22	5,012.41	4,993.19	19.22	260.858		
2,200.00	2,063.74	2,086.94	2,086.78	13.57	7.19	93.67	-4,558.96	2,069.03	5,016.33	4,995.58	20.74	241.815		
2,300.00	2,141.45	2,165.53	2,165.36	14.84	7.47	94.14	-4,558.80	2,067.93	5,021.07	4,998.79	22.28	225.339		
2,327.78	2,162.65	2,186.31	2,186.14	15.21	7.54	94.27	-4,558.75	2,067.68	5,022.58	4,999.86	22.72	221.093		
2,400.00	2,217.51	2,244.49	2,244.31	16.17	7.75	94.71	-4,558.58	2,066.99	5,026.82	5,002.95	23.87	210.564		
2,500.00	2,293.49	2,323.32	2,323.13	17.51	8.03	95.30	-4,558.31	2,065.90	5,033.35	5,007.88	25.48	197.568		
2,600.00	2,369.47	2,394.78	2,394.59	18.86	8.29	95.83	-4,558.08	2,064.92	5,040.76	5,013.70	27.06	186.291		
2,700.00	2,445.45	2,481.47	2,481.27	20.22	8.60	96.48	-4,557.70	2,063.88	5,048.96	5,020.26	28.70	175.937		
2,800.00	2,521.42	2,563.88	2,563.67	21.59	8.89	97.09	-4,557.14	2,063.05	5,057.85	5,027.53	30.32	166.810		
2,900.00	2,597.40	2,656.80	2,656.59	22.97	9.23	97.78	-4,556.35	2,062.01	5,067.43	5,035.45	31.98	158.454		
3,000.00	2,673.38	2,736.57	2,736.34	24.34	9.51	98.37	-4,555.43	2,060.88	5,077.58	5,043.99	33.59	151.165		
3,100.00	2,749.36	2,799.61	2,799.37	25.73	9.74	98.84	-4,554.83	2,059.91	5,088.68	5,053.55	35.13	144.836		
3,200.00	2,825.33	2,867.89	2,867.64	27.11	9.98	99.34	-4,554.36	2,058.64	5,100.75	5,064.06	36.69	139.015		
3,300.00	2,901.31	2,936.39	2,936.12	28.50	10.23	99.85	-4,554.02	2,057.06	5,113.76	5,075.51	38.24	133.714		
3,400.00	2,977.29	3,005.51	3,005.22	29.90	10.48	100.37	-4,553.77	2,055.44	5,127.67	5,087.88	39.79	128.868		
3,500.00	3,053.27	3,071.29	3,070.98	31.29	10.71	100.85	-4,553.61	2,053.95	5,142.52	5,101.20	41.32	124.469		
3,600.00	3,129.24	3,151.42	3,151.09	32.69	11.00	101.44	-4,553.49	2,052.19	5,158.24	5,115.36	42.88	120.281		
3,700.00	3,205.22	3,232.69	3,232.34	34.08	11.29	102.04	-4,553.19	2,050.33	5,174.61	5,130.16	44.45	116.417		
3,800.00	3,281.20	3,303.20	3,302.84	35.48	11.55	102.56	-4,552.93	2,048.92	5,191.79	5,145.83	45.96	112.956		
3,900.00	3,357.18	3,373.01	3,372.63	36.88	11.80	103.06	-4,552.73	2,047.53	5,209.83	5,162.37	47.46	109.765		
4,000.00	3,433.15	3,439.79	3,439.39	38.29	12.04	103.55	-4,552.62	2,046.10	5,228.74	5,179.80	48.94	106.838		
4,100.00	3,509.13	3,506.03	3,505.62	39.69	12.28	104.03	-4,552.63	2,044.76	5,248.55	5,198.15	50.40	104.130		
4,200.00	3,585.11	3,587.28	3,586.85	41.09	12.57	104.61	-4,552.64	2,043.25	5,269.13	5,217.22	51.91	101.501		
4,300.00	3,661.08	3,657.55	3,657.12	42.50	12.82	105.11	-4,552.62	2,041.99	5,290.44	5,237.07	53.37	99.134		
4,400.00	3,737.06	3,732.21	3,731.76	43.90	13.09	105.64	-4,552.68	2,040.52	5,312.56	5,257.74	54.82	96.901		
4,500.00	3,813.04	3,817.94	3,817.47	45.31	13.40	106.25	-4,552.63	2,038.82	5,335.32	5,279.01	56.31	94.745		
4,600.00	3,889.02	3,887.52	3,887.04	46.71	13.65	106.74	-4,552.57	2,037.50	5,358.78	5,301.06	57.73	92.832		
4,700.00	3,964.99	3,958.15	3,957.66	48.12	13.90	107.23	-4,552.55	2,036.23	5,383.00	5,323.87	59.13	91.039		
4,800.00	4,040.97	4,042.13	4,041.63	49.53	14.20	107.81	-4,552.55	2,034.77	5,407.95	5,347.38	60.57	89.283		
4,900.00	4,116.95	4,146.02	4,145.50	50.94	14.57	108.53	-4,552.12	2,033.20	5,433.27	5,371.19	62.08	87.524		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,192.93	4,247.72	4,247.20	52.35	14.93	109.22	-4,551.19	2,032.31	5,458.87	5,395.31	63.56	85.886		
5,100.00	4,268.90	4,329.57	4,329.04	53.76	15.22	109.76	-4,550.17	2,032.05	5,484.85	5,419.91	64.95	84.448		
5,200.00	4,344.88	4,391.58	4,391.05	55.16	15.44	110.18	-4,549.50	2,031.99	5,511.60	5,445.35	66.25	83.194		
5,300.00	4,420.86	4,455.56	4,455.02	56.57	15.66	110.60	-4,548.96	2,031.94	5,539.16	5,471.62	67.54	82.008		
5,400.00	4,496.84	4,521.77	4,521.23	57.98	15.89	111.03	-4,548.54	2,031.78	5,567.50	5,498.66	68.83	80.884		
5,500.00	4,572.81	4,592.47	4,591.93	59.39	16.14	111.49	-4,548.15	2,031.38	5,596.54	5,526.41	70.13	79.804		
5,600.00	4,648.79	4,689.94	4,689.39	60.81	16.49	112.13	-4,547.43	2,030.25	5,626.10	5,554.58	71.52	78.669		
5,700.00	4,724.77	4,808.84	4,808.26	62.22	16.92	112.91	-4,545.77	2,028.19	5,655.82	5,582.85	72.97	77.507		
5,800.00	4,800.74	4,891.10	4,890.49	63.63	17.21	113.45	-4,544.26	2,026.70	5,685.82	5,611.56	74.27	76.558		
5,900.00	4,876.72	4,963.74	4,963.11	65.04	17.47	113.92	-4,542.87	2,025.39	5,716.37	5,640.86	75.51	75.699		
6,000.00	4,952.70	5,029.89	5,029.23	66.45	17.71	114.34	-4,541.67	2,024.19	5,747.58	5,670.86	76.72	74.916		
6,100.00	5,028.68	5,090.64	5,089.97	67.86	17.93	114.73	-4,540.69	2,023.03	5,779.54	5,701.65	77.89	74.200		
6,200.00	5,104.65	5,153.94	5,153.25	69.27	18.16	115.13	-4,539.81	2,021.73	5,812.25	5,733.19	79.06	73.519		
6,300.00	5,180.63	5,221.04	5,220.32	70.69	18.40	115.56	-4,538.99	2,020.24	5,845.66	5,765.43	80.22	72.866		
6,400.00	5,256.61	5,297.41	5,296.68	72.10	18.67	116.04	-4,538.08	2,018.57	5,879.65	5,798.23	81.42	72.217		
6,500.00	5,332.59	5,386.86	5,386.09	73.51	18.99	116.59	-4,536.89	2,016.60	5,914.09	5,831.44	82.65	71.558		
6,600.00	5,408.56	5,464.00	5,463.21	74.92	19.27	117.07	-4,535.72	2,014.84	5,948.94	5,865.13	83.81	70.978		
6,700.00	5,484.54	5,537.17	5,536.34	76.34	19.53	117.52	-4,534.62	2,013.16	5,984.34	5,899.38	84.95	70.444		
6,800.00	5,560.52	5,609.08	5,608.24	77.75	19.79	117.96	-4,533.64	2,011.81	6,020.28	5,934.21	86.07	69.944		
6,900.00	5,636.50	5,681.04	5,680.18	79.16	20.05	118.39	-4,532.73	2,010.61	6,056.77	5,969.59	87.18	69.472		
7,000.00	5,712.47	5,745.53	5,744.66	80.57	20.28	118.77	-4,532.00	2,009.62	6,093.83	6,005.58	88.25	69.053		
7,100.00	5,788.45	5,809.91	5,809.03	81.99	20.51	119.15	-4,531.48	2,008.88	6,131.52	6,042.22	89.30	68.661		
7,200.00	5,864.43	5,891.03	5,890.15	83.40	20.80	119.62	-4,530.85	2,008.00	6,169.71	6,079.29	90.42	68.237		
7,300.00	5,940.40	6,049.95	6,049.03	84.81	21.37	120.54	-4,528.53	2,005.90	6,207.98	6,116.14	91.84	67.595		
7,400.00	6,016.38	6,137.53	6,136.58	86.23	21.68	121.03	-4,526.35	2,005.20	6,245.74	6,152.78	92.96	67.191		
7,500.00	6,092.36	6,181.65	6,180.68	87.64	21.84	121.29	-4,525.33	2,004.45	6,284.28	6,190.40	93.88	66.942		
7,600.00	6,168.34	6,233.99	6,233.00	89.05	22.03	121.58	-4,524.27	2,003.21	6,323.61	6,228.80	94.82	66.694		
7,700.00	6,244.31	6,292.83	6,291.82	90.47	22.24	121.92	-4,523.28	2,001.96	6,363.60	6,267.83	95.77	66.446		
7,800.00	6,320.29	6,334.46	6,333.44	91.88	22.39	122.15	-4,522.75	2,001.10	6,404.30	6,307.66	96.64	66.269		
7,900.00	6,396.27	7,900.00	6,441.58	93.30	27.97	122.75	-4,521.70	1,998.58	6,445.80	6,342.82	102.98	62.592		
8,000.00	6,472.25	6,577.70	6,576.60	94.71	23.25	123.49	-4,519.13	1,997.14	6,486.51	6,387.47	99.04	65.496		
8,100.00	6,548.22	6,792.34	6,791.13	96.12	24.00	124.61	-4,512.77	1,998.03	6,526.34	6,425.74	100.60	64.874		
8,200.00	6,624.20	6,829.04	6,827.82	97.54	24.13	124.80	-4,511.48	1,998.34	6,566.35	6,464.93	101.42	64.742		
8,300.00	6,700.18	6,860.54	6,859.30	98.95	24.23	124.96	-4,510.63	1,998.61	6,607.26	6,505.05	102.21	64.644		
8,400.00	6,776.16	6,900.00	6,898.75	100.37	24.37	125.16	-4,509.89	1,998.97	6,649.07	6,546.05	103.02	64.543		
8,500.00	6,852.13	6,957.64	6,956.38	101.78	24.57	125.45	-4,508.91	1,999.06	6,691.58	6,587.69	103.89	64.409		
8,600.00	6,928.11	7,044.57	7,043.28	103.20	24.88	125.90	-4,506.95	1,998.03	6,734.44	6,629.56	104.87	64.215		
8,700.00	7,004.09	7,119.94	7,118.64	104.61	25.14	126.27	-4,505.51	1,998.26	6,777.48	6,671.67	105.81	64.055		
8,800.00	7,080.06	7,163.24	7,161.93	106.02	25.29	126.48	-4,504.87	1,998.45	6,821.12	6,714.53	106.59	63.994		
8,900.00	7,156.04	7,200.00	7,198.69	107.44	25.42	126.66	-4,504.44	1,998.44	6,865.47	6,758.15	107.33	63.967		
9,000.00	7,232.02	7,258.63	7,257.31	108.85	25.63	126.95	-4,503.88	1,998.11	6,910.45	6,802.29	108.16	63.892		
9,104.68	7,311.55	7,326.61	7,325.29	110.33	25.87	127.29	-4,503.32	1,997.26	6,958.14	6,849.10	109.05	63.810		
9,150.00	7,346.29	7,379.25	7,377.92	110.97	26.06	121.59	-4,502.78	1,996.55	6,977.34	6,867.80	109.54	63.695		
9,200.00	7,385.15	7,423.29	7,421.96	111.65	26.22	115.08	-4,502.24	1,995.97	6,994.93	6,884.88	110.05	63.564		
9,250.00	7,424.29	7,459.32	7,457.97	112.31	26.35	108.51	-4,501.75	1,995.39	7,008.72	6,898.20	110.52	63.413		
9,300.00	7,463.40	7,495.09	7,493.73	112.93	26.48	102.10	-4,501.24	1,994.71	7,018.65	6,907.64	111.01	63.226		
9,350.00	7,502.19	7,522.09	7,520.73	113.51	26.57	96.00	-4,500.87	1,994.19	7,024.67	6,913.21	111.46	63.026		
9,400.00	7,540.36	7,547.54	7,546.18	114.04	26.66	90.37	-4,500.63	1,993.82	7,026.80	6,914.90	111.90	62.798		
9,450.00	7,577.62	7,572.63	7,571.26	114.53	26.75	85.36	-4,500.50	1,993.57	7,025.02	6,912.69	112.33	62.541		
9,500.00	7,613.70	7,600.00	7,598.63	114.95	26.85	81.02	-4,500.46	1,993.43	7,019.36	6,906.60	112.76	62.252		
9,550.00	7,648.30	9,550.00	7,769.44	115.32	33.68	78.25	-4,498.71	1,993.28	7,009.39	6,889.32	120.08	58.374		
9,600.00	7,681.18	9,600.00	7,801.92	115.63	33.85	75.38	-4,498.12	1,993.41	6,995.40	6,874.84	120.56	58.025		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,650.00	7,712.08	7,800.00	7,798.61	115.88	27.55	72.95	-4,498.18	1,993.40	6,977.83	6,863.33	114.50	60.942		
9,700.00	7,740.76	7,800.00	7,798.61	116.08	27.55	71.18	-4,498.18	1,993.40	6,956.83	6,842.11	114.72	60.642		
9,750.00	7,767.01	7,800.00	7,798.61	116.23	27.55	70.04	-4,498.18	1,993.40	6,932.54	6,817.63	114.91	60.329		
9,800.00	7,790.63	7,800.00	7,798.61	116.33	27.55	69.53	-4,498.18	1,993.40	6,905.12	6,790.04	115.08	60.003		
9,850.00	7,811.44	7,800.00	7,798.61	116.38	27.55	69.67	-4,498.18	1,993.40	6,874.72	6,759.50	115.22	59.667		
9,900.00	7,829.28	7,800.00	7,798.61	116.38	27.55	70.50	-4,498.18	1,993.40	6,841.56	6,726.22	115.33	59.320		
9,950.00	7,844.01	7,800.00	7,798.61	116.35	27.55	72.11	-4,498.18	1,993.40	6,805.83	6,690.41	115.42	58.963		
10,000.00	7,855.52	7,800.00	7,798.61	116.28	27.55	74.60	-4,498.18	1,993.40	6,767.78	6,652.28	115.50	58.598		
10,050.00	7,863.72	7,800.00	7,798.61	116.18	27.55	78.16	-4,498.18	1,993.40	6,727.66	6,612.11	115.55	58.223		
10,100.00	7,868.56	7,800.00	7,798.61	116.06	27.55	82.99	-4,498.18	1,993.40	6,685.73	6,570.14	115.59	57.840		
10,145.94	7,870.00	7,800.00	7,798.61	115.92	27.55	88.81	-4,498.18	1,993.40	6,645.87	6,530.25	115.62	57.482		
10,200.00	7,870.00	7,800.00	7,798.61	115.76	27.55	88.81	-4,498.18	1,993.40	6,598.34	6,482.70	115.65	57.057		
10,300.00	7,870.00	7,800.00	7,798.61	115.46	27.55	88.81	-4,498.18	1,993.40	6,510.71	6,395.01	115.70	56.273		
10,400.00	7,870.00	7,800.00	7,798.61	115.18	27.55	88.81	-4,498.18	1,993.40	6,423.44	6,307.68	115.76	55.492		
10,500.00	7,870.00	7,800.00	7,798.61	114.91	27.55	88.81	-4,498.18	1,993.40	6,336.54	6,220.72	115.81	54.713		
10,600.00	7,870.00	7,800.00	7,798.61	114.65	27.55	88.81	-4,498.18	1,993.40	6,250.03	6,134.16	115.88	53.937		
10,700.00	7,870.00	7,800.00	7,798.61	114.41	27.55	88.81	-4,498.18	1,993.40	6,163.94	6,047.99	115.94	53.163		
10,800.00	7,870.00	7,800.00	7,798.61	114.17	27.55	88.81	-4,498.18	1,993.40	6,078.26	5,962.25	116.01	52.393		
10,900.00	7,870.00	7,800.00	7,798.61	113.95	27.55	88.81	-4,498.18	1,993.40	5,993.04	5,876.95	116.09	51.626		
11,000.00	7,870.00	7,800.00	7,798.61	113.75	27.55	88.81	-4,498.18	1,993.40	5,908.27	5,792.11	116.16	50.862		
11,100.00	7,870.00	7,800.00	7,798.61	113.55	27.55	88.81	-4,498.18	1,993.40	5,823.99	5,707.75	116.24	50.102		
11,200.00	7,870.00	7,800.00	7,798.61	113.37	27.55	88.81	-4,498.18	1,993.40	5,740.21	5,623.89	116.33	49.345		
11,300.00	7,870.00	7,800.00	7,798.61	113.20	27.55	88.81	-4,498.18	1,993.40	5,656.96	5,540.55	116.42	48.592		
11,400.00	7,870.00	7,800.00	7,798.61	113.04	27.55	88.81	-4,498.18	1,993.40	5,574.27	5,457.75	116.51	47.843		
11,500.00	7,870.00	7,800.00	7,798.61	112.89	27.55	88.81	-4,498.18	1,993.40	5,492.14	5,375.53	116.61	47.098		
11,600.00	7,870.00	7,800.00	7,798.61	112.76	27.55	88.81	-4,498.18	1,993.40	5,410.62	5,293.91	116.71	46.358		
11,700.00	7,870.00	7,800.00	7,798.61	112.64	27.55	88.81	-4,498.18	1,993.40	5,329.73	5,212.91	116.82	45.622		
11,800.00	7,870.00	7,800.00	7,798.61	112.53	27.55	88.81	-4,498.18	1,993.40	5,249.49	5,132.56	116.94	44.892		
11,900.00	7,870.00	7,800.00	7,798.61	112.44	27.55	88.81	-4,498.18	1,993.40	5,169.95	5,052.89	117.06	44.166		
12,000.00	7,870.00	7,800.00	7,798.61	112.36	27.55	88.81	-4,498.18	1,993.40	5,091.13	4,973.94	117.18	43.446		
12,100.00	7,870.00	7,800.00	7,798.61	112.29	27.55	88.81	-4,498.18	1,993.40	5,013.06	4,895.75	117.31	42.732		
12,200.00	7,870.00	7,800.00	7,798.61	112.24	27.55	88.81	-4,498.18	1,993.40	4,935.78	4,818.33	117.45	42.024		
12,300.00	7,870.00	7,800.00	7,798.61	112.20	27.55	88.81	-4,498.18	1,993.40	4,859.34	4,741.74	117.60	41.322		
12,400.00	7,870.00	7,800.00	7,798.61	112.17	27.55	88.81	-4,498.18	1,993.40	4,783.76	4,666.01	117.75	40.627		
12,500.00	7,870.00	7,800.00	7,798.61	112.16	27.55	88.81	-4,498.18	1,993.40	4,709.09	4,591.18	117.91	39.940		
12,600.00	7,870.00	7,800.00	7,798.61	112.17	27.55	88.81	-4,498.18	1,993.40	4,635.38	4,517.31	118.07	39.259		
12,700.00	7,870.00	7,800.00	7,798.61	112.19	27.55	88.81	-4,498.18	1,993.40	4,562.66	4,444.42	118.24	38.587		
12,800.00	7,870.00	7,800.00	7,798.61	112.23	27.55	88.81	-4,498.18	1,993.40	4,491.00	4,372.58	118.42	37.923		
12,900.00	7,870.00	7,800.00	7,798.61	112.28	27.55	88.81	-4,498.18	1,993.40	4,420.44	4,301.83	118.61	37.268		
13,000.00	7,870.00	7,800.00	7,798.61	112.36	27.55	88.81	-4,498.18	1,993.40	4,351.03	4,232.22	118.81	36.623		
13,100.00	7,870.00	7,800.00	7,798.61	112.45	27.55	88.81	-4,498.18	1,993.40	4,282.83	4,163.82	119.01	35.987		
13,200.00	7,870.00	7,800.00	7,798.61	112.56	27.55	88.81	-4,498.18	1,993.40	4,215.90	4,096.68	119.22	35.362		
13,300.00	7,870.00	7,800.00	7,798.61	112.68	27.55	88.81	-4,498.18	1,993.40	4,150.31	4,030.86	119.44	34.748		
13,400.00	7,870.00	7,800.00	7,798.61	112.83	27.55	88.81	-4,498.18	1,993.40	4,086.10	3,966.43	119.67	34.145		
13,500.00	7,870.00	7,800.00	7,798.61	113.00	27.55	88.81	-4,498.18	1,993.40	4,023.36	3,903.45	119.91	33.554		
13,600.00	7,870.00	7,800.00	7,798.61	113.19	27.55	88.81	-4,498.18	1,993.40	3,962.15	3,842.00	120.15	32.977		
13,700.00	7,870.00	7,800.00	7,798.61	113.40	27.55	88.81	-4,498.18	1,993.40	3,902.54	3,782.14	120.40	32.413		
13,800.00	7,870.00	7,800.00	7,798.61	113.63	27.55	88.81	-4,498.18	1,993.40	3,844.60	3,723.94	120.66	31.863		
13,900.00	7,870.00	7,800.00	7,798.61	113.89	27.55	88.81	-4,498.18	1,993.40	3,788.43	3,667.50	120.93	31.329		
14,000.00	7,870.00	7,800.00	7,798.61	114.18	27.55	88.81	-4,498.18	1,993.40	3,734.08	3,612.88	121.20	30.810		
14,100.00	7,870.00	7,800.00	7,798.61	114.48	27.55	88.81	-4,498.18	1,993.40	3,681.65	3,560.17	121.48	30.308		
14,200.00	7,870.00	7,800.00	7,798.61	114.82	27.55	88.81	-4,498.18	1,993.40	3,631.22	3,509.46	121.76	29.823		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX F UNIT 1 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 100-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
14,300.00	7,870.00	7,800.00	7,798.61	115.18	27.55	88.81	-4,498.18	1,993.40	3,582.87	3,460.82	122.05	29.356		
14,400.00	7,870.00	7,800.00	7,798.61	115.57	27.55	88.81	-4,498.18	1,993.40	3,536.68	3,414.34	122.34	28.909		
14,500.00	7,870.00	7,800.00	7,798.61	115.99	27.55	88.81	-4,498.18	1,993.40	3,492.75	3,370.12	122.63	28.481		
14,600.00	7,870.00	7,800.00	7,798.61	116.44	27.55	88.81	-4,498.18	1,993.40	3,451.16	3,328.23	122.93	28.075		
14,700.00	7,870.00	7,800.00	7,798.61	116.92	27.55	88.81	-4,498.18	1,993.40	3,411.99	3,288.77	123.22	27.690		
14,800.00	7,870.00	7,800.00	7,798.61	117.44	27.55	88.81	-4,498.18	1,993.40	3,375.33	3,251.82	123.52	27.327		
14,900.00	7,870.00	7,800.00	7,798.61	117.98	27.55	88.81	-4,498.18	1,993.40	3,341.27	3,217.46	123.81	26.988		
15,000.00	7,870.00	7,800.00	7,798.61	118.56	27.55	88.81	-4,498.18	1,993.40	3,309.87	3,185.78	124.09	26.673		
15,100.00	7,870.00	7,800.00	7,798.61	119.17	27.55	88.81	-4,498.18	1,993.40	3,281.23	3,156.86	124.37	26.383		
15,200.00	7,870.00	7,800.00	7,798.61	119.81	27.55	88.81	-4,498.18	1,993.40	3,255.40	3,130.76	124.64	26.119		
15,300.00	7,870.00	7,800.00	7,798.61	120.48	27.55	88.81	-4,498.18	1,993.40	3,232.46	3,107.57	124.90	25.881		
15,400.00	7,870.00	7,800.00	7,798.61	121.19	27.55	88.81	-4,498.18	1,993.40	3,212.48	3,087.33	125.14	25.670		
15,500.00	7,870.00	7,800.00	7,798.61	121.93	27.55	88.81	-4,498.18	1,993.40	3,195.50	3,070.12	125.38	25.487		
15,600.00	7,870.00	7,800.00	7,798.61	122.71	27.55	88.81	-4,498.18	1,993.40	3,181.57	3,055.97	125.60	25.332		
15,700.00	7,870.00	7,800.00	7,798.61	123.52	27.55	88.81	-4,498.18	1,993.40	3,170.74	3,044.94	125.80	25.205		
15,800.00	7,870.00	7,800.00	7,798.61	124.36	27.55	88.81	-4,498.18	1,993.40	3,163.03	3,037.05	125.98	25.107		
15,900.00	7,870.00	7,800.00	7,798.61	125.23	27.55	88.81	-4,498.18	1,993.40	3,158.47	3,032.33	126.14	25.039		
15,994.05	7,870.00	7,800.00	7,798.61	126.08	27.55	88.81	-4,498.18	1,993.40	3,157.07	3,030.79	126.28	25.001 CC		
16,000.00	7,870.00	7,800.00	7,798.61	126.14	27.55	88.81	-4,498.18	1,993.40	3,157.08	3,030.79	126.29	24.999 ES		
16,100.00	7,870.00	7,800.00	7,798.61	127.07	27.55	88.81	-4,498.18	1,993.40	3,158.85	3,032.44	126.41	24.989 SF		
16,200.00	7,870.00	7,800.00	7,798.61	128.04	27.55	88.81	-4,498.18	1,993.40	3,163.78	3,037.28	126.51	25.008		
16,300.00	7,870.00	7,800.00	7,798.61	129.04	27.55	88.81	-4,498.18	1,993.40	3,171.86	3,045.28	126.59	25.057		
16,400.00	7,870.00	7,800.00	7,798.61	130.06	27.55	88.81	-4,498.18	1,993.40	3,183.07	3,056.42	126.64	25.134		
16,500.00	7,870.00	7,800.00	7,798.61	131.11	27.55	88.81	-4,498.18	1,993.40	3,197.36	3,070.68	126.68	25.240		
16,600.00	7,870.00	7,800.00	7,798.61	132.19	27.55	88.81	-4,498.18	1,993.40	3,214.70	3,088.01	126.69	25.374		
16,700.00	7,870.00	7,800.00	7,798.61	133.29	27.55	88.81	-4,498.18	1,993.40	3,235.04	3,108.36	126.68	25.537		
16,800.00	7,870.00	7,800.00	7,798.61	134.42	27.55	88.81	-4,498.18	1,993.40	3,258.32	3,131.67	126.66	25.726		
16,900.00	7,870.00	7,800.00	7,798.61	135.57	27.55	88.81	-4,498.18	1,993.40	3,284.49	3,157.88	126.61	25.942		
17,000.00	7,870.00	7,800.00	7,798.61	136.75	27.55	88.81	-4,498.18	1,993.40	3,313.46	3,186.92	126.55	26.184		
17,100.00	7,870.00	7,800.00	7,798.61	137.94	27.55	88.81	-4,498.18	1,993.40	3,345.18	3,218.71	126.47	26.451		
17,200.00	7,870.00	7,800.00	7,798.61	139.16	27.55	88.81	-4,498.18	1,993.40	3,379.56	3,253.19	126.37	26.743		
17,300.00	7,870.00	7,800.00	7,798.61	140.39	27.55	88.81	-4,498.18	1,993.40	3,416.52	3,290.25	126.27	27.058		
17,400.00	7,870.00	7,800.00	7,798.61	141.65	27.55	88.81	-4,498.18	1,993.40	3,455.98	3,329.83	126.15	27.396		
17,500.00	7,870.00	7,800.00	7,798.61	142.92	27.55	88.81	-4,498.18	1,993.40	3,497.86	3,371.84	126.02	27.757		
17,600.00	7,870.00	7,800.00	7,798.61	144.21	27.55	88.81	-4,498.18	1,993.40	3,542.06	3,416.18	125.88	28.139		
17,700.00	7,870.00	7,800.00	7,798.61	145.52	27.55	88.81	-4,498.18	1,993.40	3,588.51	3,462.77	125.73	28.541		
17,800.00	7,870.00	7,800.00	7,798.61	146.84	27.55	88.81	-4,498.18	1,993.40	3,637.11	3,511.53	125.58	28.963		
17,900.00	7,870.00	7,800.00	7,798.61	148.18	27.55	88.81	-4,498.18	1,993.40	3,687.78	3,562.36	125.42	29.403		
18,000.00	7,870.00	7,800.00	7,798.61	149.54	27.55	88.81	-4,498.18	1,993.40	3,740.45	3,615.19	125.26	29.862		
18,100.00	7,870.00	7,800.00	7,798.61	150.90	27.55	88.81	-4,498.18	1,993.40	3,795.01	3,669.92	125.09	30.337		
18,200.00	7,870.00	7,800.00	7,798.61	152.28	27.55	88.81	-4,498.18	1,993.40	3,851.41	3,726.48	124.93	30.829		
18,300.00	7,870.00	7,800.00	7,798.61	153.67	27.55	88.81	-4,498.18	1,993.40	3,909.54	3,784.78	124.76	31.337		
18,400.00	7,870.00	7,800.00	7,798.61	155.07	27.55	88.81	-4,498.18	1,993.40	3,969.35	3,844.76	124.59	31.859		
18,500.00	7,870.00	7,800.00	7,798.61	156.49	27.55	88.81	-4,498.18	1,993.40	4,030.74	3,906.32	124.42	32.396		
18,600.00	7,870.00	7,800.00	7,798.61	157.91	27.55	88.81	-4,498.18	1,993.40	4,093.66	3,969.41	124.25	32.946		
18,700.00	7,870.00	7,800.00	7,798.61	159.35	27.55	88.81	-4,498.18	1,993.40	4,158.04	4,033.95	124.09	33.509		
18,800.00	7,870.00	7,800.00	7,798.61	160.79	27.55	88.81	-4,498.18	1,993.40	4,223.80	4,099.87	123.93	34.083		
18,900.00	7,870.00	7,800.00	7,798.61	162.25	27.55	88.81	-4,498.18	1,993.40	4,290.88	4,167.12	123.76	34.670		
19,000.00	7,870.00	7,800.00	7,798.61	163.71	27.55	88.81	-4,498.18	1,993.40	4,359.22	4,235.62	123.61	35.267		
19,100.00	7,870.00	7,800.00	7,798.61	165.18	27.55	88.81	-4,498.18	1,993.40	4,428.77	4,305.32	123.45	35.875		
19,200.00	7,870.00	7,800.00	7,798.61	166.66	27.55	88.81	-4,498.18	1,993.40	4,499.47	4,376.17	123.30	36.492		
19,300.00	7,870.00	7,800.00	7,798.61	168.15	27.55	88.81	-4,498.18	1,993.40	4,571.26	4,448.11	123.15	37.119		

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

Anticollision Report

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

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 100-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,400.00	7,870.00	7,800.00	7,798.61	169.65	27.55	88.81	-4,498.18	1,993.40	4,644.09	4,521.09	123.01	37.755	
19,500.00	7,870.00	7,800.00	7,798.61	171.15	27.55	88.81	-4,498.18	1,993.40	4,717.92	4,595.05	122.87	38.398	
19,600.00	7,870.00	7,800.00	7,798.61	172.66	27.55	88.81	-4,498.18	1,993.40	4,792.70	4,669.97	122.73	39.050	
19,700.00	7,870.00	7,800.00	7,798.61	174.18	27.55	88.81	-4,498.18	1,993.40	4,868.38	4,745.79	122.60	39.710	
19,800.00	7,870.00	7,809.94	7,808.55	175.70	27.59	88.99	-4,497.91	1,993.55	4,944.92	4,822.40	122.53	40.358	
19,889.26	7,870.00	7,807.45	7,806.06	177.06	27.58	88.95	-4,497.98	1,993.51	5,013.95	4,891.55	122.40	40.963	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
0.00	0.00	18.00	18.00	0.00	0.14	163.83	-7,180.03	2,081.58	7,475.68					
100.00	100.00	118.00	118.00	0.13	1.09	163.83	-7,180.03	2,081.58	7,475.68	7,474.46	1.23	6,101.311		
200.00	200.00	218.00	218.00	0.49	2.84	163.83	-7,180.03	2,081.58	7,475.68	7,472.36	3.33	2,245.585		
300.00	300.00	318.00	318.00	0.85	4.58	163.83	-7,180.03	2,081.58	7,475.68	7,470.25	5.43	1,376.013		
400.00	399.98	417.98	417.98	1.21	6.33	95.70	-7,180.03	2,081.58	7,475.86	7,468.33	7.53	992.540		
500.00	499.84	517.84	517.84	1.56	8.07	95.73	-7,180.03	2,081.58	7,476.38	7,466.75	9.63	776.254		
600.00	599.45	617.45	617.45	1.93	9.81	95.78	-7,180.03	2,081.58	7,477.26	7,465.52	11.74	637.008		
700.00	698.70	716.70	716.70	2.32	11.54	95.84	-7,180.03	2,081.58	7,478.50	7,464.64	13.86	539.758		
800.00	797.47	815.47	815.47	2.72	13.26	95.93	-7,180.03	2,081.58	7,480.12	7,464.14	15.99	467.895		
900.00	895.62	913.62	913.62	3.16	14.98	96.03	-7,180.03	2,081.58	7,482.15	7,464.01	18.14	412.549		
1,000.00	993.06	1,011.06	1,011.06	3.63	16.68	96.15	-7,180.03	2,081.58	7,484.60	7,464.29	20.31	368.556		
1,100.00	1,089.64	1,107.64	1,107.64	4.14	18.36	96.28	-7,180.03	2,081.58	7,487.50	7,464.99	22.50	332.709		
1,200.00	1,185.27	1,203.27	1,203.27	4.70	20.03	96.43	-7,180.03	2,081.58	7,490.88	7,466.15	24.73	302.914		
1,300.00	1,279.82	1,302.18	1,297.82	5.31	21.76	96.58	-7,180.03	2,081.58	7,494.78	7,467.72	27.06	276.959		
1,400.00	1,373.17	1,408.83	1,391.17	5.97	23.62	96.75	-7,180.03	2,081.58	7,499.23	7,469.65	29.58	253.517		
1,500.00	1,465.21	1,483.21	1,483.21	6.69	24.92	96.92	-7,180.03	2,081.58	7,504.28	7,472.68	31.59	237.521		
1,600.00	1,555.84	1,573.84	1,573.84	7.47	26.50	97.10	-7,180.03	2,081.58	7,509.96	7,476.01	33.95	221.202		
1,700.00	1,644.94	1,662.94	1,662.94	8.31	28.06	97.28	-7,180.03	2,081.58	7,516.32	7,479.98	36.34	206.819		
1,800.00	1,732.39	1,750.39	1,750.39	9.23	29.58	97.46	-7,180.03	2,081.58	7,523.42	7,484.65	38.77	194.053		
1,900.00	1,818.11	1,836.11	1,836.11	10.21	31.08	97.64	-7,180.03	2,081.58	7,531.29	7,490.06	41.23	182.654		
2,000.00	1,901.97	1,919.97	1,919.97	11.26	32.54	97.81	-7,180.03	2,081.58	7,539.99	7,496.26	43.73	172.423		
2,100.00	1,983.88	2,001.88	2,001.88	12.38	33.97	97.97	-7,180.03	2,081.58	7,549.56	7,503.30	46.26	163.198		
2,200.00	2,063.74	2,081.74	2,081.74	13.57	35.36	98.13	-7,180.03	2,081.58	7,560.06	7,511.24	48.82	154.848		
2,300.00	2,141.45	2,159.45	2,159.45	14.84	36.72	98.27	-7,180.03	2,081.58	7,571.53	7,520.12	51.41	147.264		
2,327.78	2,162.65	2,180.65	2,180.65	15.21	37.09	98.30	-7,180.03	2,081.58	7,574.90	7,522.76	52.14	145.283		
2,400.00	2,217.51	2,235.51	2,235.51	16.17	38.05	98.57	-7,180.03	2,081.58	7,583.90	7,529.87	54.03	140.368		
2,500.00	2,293.49	2,311.49	2,311.49	17.51	39.37	98.94	-7,180.03	2,081.58	7,596.82	7,540.17	56.65	134.092		
2,600.00	2,369.47	2,387.47	2,387.47	18.86	40.70	99.32	-7,180.03	2,081.58	7,610.27	7,550.99	59.29	128.368		
2,700.00	2,445.45	2,463.45	2,463.45	20.22	42.03	99.69	-7,180.03	2,081.58	7,624.26	7,562.34	61.92	123.132		
2,800.00	2,521.42	2,539.42	2,539.42	21.59	43.35	100.05	-7,180.03	2,081.58	7,638.77	7,574.22	64.56	118.328		
2,900.00	2,597.40	2,615.40	2,615.40	22.97	44.68	100.42	-7,180.03	2,081.58	7,653.81	7,586.62	67.19	113.910		
3,000.00	2,673.38	2,708.62	2,691.38	24.34	46.31	100.79	-7,180.03	2,081.58	7,669.37	7,599.24	70.13	109.362		
3,100.00	2,749.36	2,767.36	2,767.36	25.73	47.33	101.16	-7,180.03	2,081.58	7,685.45	7,612.99	72.46	106.064		
3,200.00	2,825.33	2,843.33	2,843.33	27.11	48.66	101.52	-7,180.03	2,081.58	7,702.05	7,626.96	75.09	102.570		
3,300.00	2,901.31	2,919.31	2,919.31	28.50	49.98	101.89	-7,180.03	2,081.58	7,719.15	7,641.43	77.72	99.324		
3,400.00	2,977.29	3,004.71	2,995.29	29.90	51.47	102.25	-7,180.03	2,081.58	7,736.77	7,656.26	80.50	96.104		
3,500.00	3,053.27	3,071.27	3,071.27	31.29	52.64	102.61	-7,180.03	2,081.58	7,754.89	7,671.93	82.96	93.480		
3,600.00	3,129.24	3,147.24	3,147.24	32.69	53.96	102.98	-7,180.03	2,081.58	7,773.51	7,687.94	85.57	90.843		
3,700.00	3,205.22	3,223.22	3,223.22	34.08	55.29	103.34	-7,180.03	2,081.58	7,792.63	7,704.45	88.18	88.374		
3,800.00	3,281.20	3,300.80	3,299.20	35.48	56.64	103.70	-7,180.03	2,081.58	7,812.24	7,721.43	90.81	86.030		
3,900.00	3,357.18	3,375.18	3,375.18	36.88	57.94	104.06	-7,180.03	2,081.58	7,832.35	7,738.97	93.38	83.880		
4,000.00	3,433.15	3,451.15	3,451.15	38.29	59.27	104.41	-7,180.03	2,081.58	7,852.94	7,756.97	95.96	81.831		
4,100.00	3,509.13	3,527.13	3,527.13	39.69	60.59	104.77	-7,180.03	2,081.58	7,874.01	7,775.46	98.55	79.901		
4,200.00	3,585.11	3,603.11	3,603.11	41.09	61.92	105.12	-7,180.03	2,081.58	7,895.56	7,794.44	101.12	78.079		
4,300.00	3,661.08	3,679.08	3,679.08	42.50	63.24	105.48	-7,180.03	2,081.58	7,917.59	7,813.90	103.69	76.357		
4,400.00	3,737.06	3,755.06	3,755.06	43.90	64.57	105.83	-7,180.03	2,081.58	7,940.09	7,833.84	106.25	74.728		
4,500.00	3,813.04	3,831.04	3,831.04	45.31	65.90	106.18	-7,180.03	2,081.58	7,963.06	7,854.25	108.81	73.185		
4,600.00	3,889.02	3,907.02	3,907.02	46.71	67.22	106.53	-7,180.03	2,081.58	7,986.49	7,875.14	111.35	71.722		
4,700.00	3,964.99	3,982.99	3,982.99	48.12	68.55	106.88	-7,180.03	2,081.58	8,010.38	7,896.49	113.89	70.333		
4,800.00	4,040.97	4,058.97	4,058.97	49.53	69.87	107.23	-7,180.03	2,081.58	8,034.73	7,918.30	116.42	69.013		
4,900.00	4,116.95	4,134.95	4,134.95	50.94	71.20	107.58	-7,180.03	2,081.58	8,059.52	7,940.58	118.95	67.758		
5,000.00	4,192.93	4,210.93	4,210.93	52.35	72.53	107.92	-7,180.03	2,081.58	8,084.77	7,963.30	121.46	66.562		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
5,100.00	4,268.90	4,286.90	4,286.90	53.76	73.85	108.27	-7,180.03	2,081.58	8,110.45	7,986.48	123.97	65.424		
5,200.00	4,344.88	4,362.88	4,362.88	55.16	75.18	108.61	-7,180.03	2,081.58	8,136.58	8,010.11	126.47	64.338		
5,300.00	4,420.86	4,438.86	4,438.86	56.57	76.50	108.95	-7,180.03	2,081.58	8,163.13	8,034.18	128.96	63.301		
5,400.00	4,496.84	4,514.84	4,514.84	57.98	77.83	109.29	-7,180.03	2,081.58	8,190.12	8,058.68	131.44	62.311		
5,500.00	4,572.81	4,609.19	4,590.81	59.39	79.48	109.63	-7,180.03	2,081.58	8,217.54	8,083.30	134.23	61.219		
5,600.00	4,648.79	4,666.79	4,666.79	60.81	80.48	109.96	-7,180.03	2,081.58	8,245.37	8,109.00	136.38	60.460		
5,700.00	4,724.77	4,742.77	4,742.77	62.22	81.81	110.30	-7,180.03	2,081.58	8,273.62	8,134.79	138.83	59.594		
5,800.00	4,800.74	4,818.74	4,818.74	63.63	83.13	110.63	-7,180.03	2,081.58	8,302.29	8,161.01	141.28	58.765		
5,900.00	4,876.72	4,905.28	4,894.72	65.04	84.64	110.97	-7,180.03	2,081.58	8,331.37	8,187.46	143.90	57.896		
6,000.00	4,952.70	4,970.70	4,970.70	66.45	85.79	111.30	-7,180.03	2,081.58	8,360.85	8,214.70	146.15	57.207		
6,100.00	5,028.68	5,046.68	5,046.68	67.86	87.11	111.63	-7,180.03	2,081.58	8,390.73	8,242.15	148.57	56.476		
6,200.00	5,104.65	5,122.65	5,122.65	69.27	88.44	111.95	-7,180.03	2,081.58	8,421.00	8,270.02	150.98	55.774		
6,300.00	5,180.63	5,201.37	5,198.63	70.69	89.81	112.28	-7,180.03	2,081.58	8,451.67	8,298.23	153.44	55.083		
6,400.00	5,256.61	5,274.61	5,274.61	72.10	91.09	112.61	-7,180.03	2,081.58	8,482.72	8,326.94	155.78	54.452		
6,500.00	5,332.59	5,350.59	5,350.59	73.51	92.42	112.93	-7,180.03	2,081.58	8,514.16	8,355.99	158.17	53.829		
6,600.00	5,408.56	5,426.56	5,426.56	74.92	93.74	113.25	-7,180.03	2,081.58	8,545.98	8,385.43	160.55	53.230		
6,700.00	5,484.54	5,502.54	5,502.54	76.34	95.07	113.57	-7,180.03	2,081.58	8,578.17	8,415.25	162.92	52.653		
6,800.00	5,560.52	5,578.52	5,578.52	77.75	96.39	113.89	-7,180.03	2,081.58	8,610.73	8,445.45	165.28	52.098		
6,900.00	5,636.50	5,654.50	5,654.50	79.16	97.72	114.21	-7,180.03	2,081.58	8,643.66	8,476.03	167.63	51.564		
7,000.00	5,712.47	5,730.47	5,730.47	80.57	99.05	114.52	-7,180.03	2,081.58	8,676.95	8,506.98	169.97	51.048		
7,100.00	5,788.45	5,806.45	5,806.45	81.99	100.37	114.84	-7,180.03	2,081.58	8,710.60	8,538.29	172.31	50.552		
7,200.00	5,864.43	5,882.43	5,882.43	83.40	101.70	115.15	-7,180.03	2,081.58	8,744.61	8,569.97	174.64	50.073		
7,300.00	5,940.40	5,958.40	5,958.40	84.81	103.03	115.46	-7,180.03	2,081.58	8,778.96	8,602.01	176.95	49.612		
7,400.00	6,016.38	6,034.38	6,034.38	86.23	104.35	115.77	-7,180.03	2,081.58	8,813.66	8,634.40	179.26	49.166		
7,500.00	6,092.36	6,110.36	6,110.36	87.64	105.68	116.08	-7,180.03	2,081.58	8,848.70	8,667.14	181.56	48.736		
7,600.00	6,168.34	6,186.34	6,186.34	89.05	107.00	116.38	-7,180.03	2,081.58	8,884.08	8,700.22	183.86	48.321		
7,700.00	6,244.31	6,262.31	6,262.31	90.47	108.33	116.69	-7,180.03	2,081.58	8,919.79	8,733.65	186.14	47.919		
7,800.00	6,320.29	6,338.29	6,338.29	91.88	109.66	116.99	-7,180.03	2,081.58	8,955.83	8,767.41	188.42	47.532		
7,900.00	6,396.27	6,414.27	6,414.27	93.30	110.98	117.29	-7,180.03	2,081.58	8,992.20	8,801.51	190.69	47.157		
8,000.00	6,472.25	6,509.75	6,490.25	94.71	112.65	117.59	-7,180.03	2,081.58	9,028.89	8,835.60	193.29	46.713		
8,100.00	6,548.22	6,566.22	6,566.22	96.12	113.63	117.89	-7,180.03	2,081.58	9,065.90	8,870.70	195.20	46.445		
8,200.00	6,624.20	6,642.20	6,642.20	97.54	114.96	118.19	-7,180.03	2,081.58	9,103.22	8,905.78	197.44	46.106		
8,300.00	6,700.18	6,718.18	6,718.18	98.95	116.29	118.48	-7,180.03	2,081.58	9,140.85	8,941.17	199.68	45.779		
8,400.00	6,776.16	6,805.84	6,794.16	100.37	117.82	118.78	-7,180.03	2,081.58	9,178.78	8,976.68	202.11	45.415		
8,500.00	6,852.13	6,870.13	6,870.13	101.78	118.94	119.07	-7,180.03	2,081.58	9,217.02	9,012.90	204.12	45.154		
8,600.00	6,928.11	6,946.11	6,946.11	103.20	120.26	119.36	-7,180.03	2,081.58	9,255.56	9,049.23	206.33	44.857		
8,700.00	7,004.09	7,022.09	7,022.09	104.61	121.59	119.64	-7,180.03	2,081.58	9,294.40	9,085.86	208.54	44.569		
8,800.00	7,080.06	7,101.94	7,098.06	106.02	122.98	119.93	-7,180.03	2,081.58	9,333.52	9,122.72	210.80	44.276		
8,900.00	7,156.04	7,174.04	7,174.04	107.44	124.24	120.22	-7,180.03	2,081.58	9,372.93	9,160.01	212.92	44.020		
9,000.00	7,232.02	7,250.02	7,250.02	108.85	125.57	120.50	-7,180.03	2,081.58	9,412.63	9,197.52	215.11	43.758		
9,104.68	7,311.55	7,329.55	7,329.55	110.33	126.96	120.79	-7,180.03	2,081.58	9,454.48	9,237.10	217.38	43.492		
9,150.00	7,346.29	7,364.29	7,364.29	110.97	127.56	115.27	-7,180.03	2,081.58	9,471.09	9,252.71	218.38	43.370		
9,200.00	7,385.15	7,403.15	7,403.15	111.65	128.24	108.96	-7,180.03	2,081.58	9,485.66	9,266.15	219.51	43.212		
9,250.00	7,424.29	7,442.29	7,442.29	112.31	128.92	102.58	-7,180.03	2,081.58	9,496.21	9,275.55	220.67	43.034		
9,300.00	7,463.40	7,481.40	7,481.40	112.93	129.61	96.32	-7,180.03	2,081.58	9,502.67	9,280.84	221.83	42.838		
9,350.00	7,502.19	7,520.19	7,520.19	113.51	130.28	90.36	-7,180.03	2,081.58	9,505.00	9,282.01	222.99	42.626		
9,400.00	7,540.36	7,558.36	7,558.36	114.04	130.95	84.86	-7,180.03	2,081.58	9,503.19	9,279.06	224.13	42.400		
9,450.00	7,577.62	7,604.38	7,595.62	114.53	131.75	79.94	-7,180.03	2,081.58	9,497.26	9,271.85	225.41	42.134		
9,500.00	7,613.70	7,631.70	7,631.70	114.95	132.23	75.65	-7,180.03	2,081.58	9,487.26	9,260.93	226.34	41.916		
9,550.00	7,648.30	7,666.30	7,666.30	115.32	132.83	72.03	-7,180.03	2,081.58	9,473.28	9,245.90	227.38	41.664		
9,600.00	7,681.18	7,700.82	7,699.18	115.63	133.44	69.07	-7,180.03	2,081.58	9,455.41	9,227.02	228.39	41.401		
9,650.00	7,712.08	7,730.08	7,730.08	115.88	133.95	66.76	-7,180.03	2,081.58	9,433.79	9,204.50	229.28	41.145		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,700.00	7,740.76	7,758.76	7,758.76	116.08	134.45	65.08	-7,180.03	2,081.58	9,408.58	9,178.44	230.13	40.883		
9,750.00	7,767.01	7,785.01	7,785.01	116.23	134.91	64.03	-7,180.03	2,081.58	9,379.96	9,149.05	230.91	40.621		
9,800.00	7,790.63	7,808.63	7,808.63	116.33	135.32	63.63	-7,180.03	2,081.58	9,348.15	9,116.53	231.62	40.360		
9,850.00	7,811.44	7,829.44	7,829.44	116.38	135.68	63.91	-7,180.03	2,081.58	9,313.37	9,081.14	232.24	40.103		
9,900.00	7,829.28	7,847.28	7,847.28	116.38	135.99	64.97	-7,180.03	2,081.58	9,275.88	9,043.11	232.77	39.849		
9,950.00	7,844.01	7,862.01	7,862.01	116.35	136.25	66.94	-7,180.03	2,081.58	9,235.96	9,002.73	233.23	39.601		
10,000.00	7,855.52	7,873.52	7,873.52	116.28	136.45	70.06	-7,180.03	2,081.58	9,193.88	8,960.28	233.59	39.358		
10,050.00	7,863.72	7,881.72	7,881.72	116.18	136.59	74.69	-7,180.03	2,081.58	9,149.95	8,916.07	233.88	39.123		
10,100.00	7,868.56	7,886.56	7,886.56	116.06	136.68	81.38	-7,180.03	2,081.58	9,104.50	8,870.42	234.08	38.896		
10,145.94	7,870.00	7,888.00	7,888.00	115.92	136.70	90.00	-7,180.03	2,081.58	9,061.67	8,827.48	234.19	38.694		
10,200.00	7,870.00	7,888.00	7,888.00	115.76	136.70	90.00	-7,180.03	2,081.58	9,010.80	8,776.52	234.28	38.462		
10,300.00	7,870.00	7,888.00	7,888.00	115.46	136.70	90.00	-7,180.03	2,081.58	8,916.81	8,682.35	234.45	38.032		
10,400.00	7,870.00	7,888.00	7,888.00	115.18	136.70	90.00	-7,180.03	2,081.58	8,822.94	8,588.31	234.63	37.603		
10,500.00	7,870.00	7,888.00	7,888.00	114.91	136.70	90.00	-7,180.03	2,081.58	8,729.22	8,494.40	234.82	37.175		
10,600.00	7,870.00	7,888.00	7,888.00	114.65	136.70	90.00	-7,180.03	2,081.58	8,635.63	8,400.62	235.01	36.746		
10,700.00	7,870.00	7,888.00	7,888.00	114.41	136.70	90.00	-7,180.03	2,081.58	8,542.19	8,306.99	235.20	36.319		
10,800.00	7,870.00	7,888.00	7,888.00	114.17	136.70	90.00	-7,180.03	2,081.58	8,448.90	8,213.49	235.40	35.891		
10,900.00	7,870.00	7,888.00	7,888.00	113.95	136.70	90.00	-7,180.03	2,081.58	8,355.76	8,120.15	235.61	35.465		
11,000.00	7,870.00	7,888.00	7,888.00	113.75	136.70	90.00	-7,180.03	2,081.58	8,262.78	8,026.96	235.82	35.038		
11,100.00	7,870.00	7,888.00	7,888.00	113.55	136.70	90.00	-7,180.03	2,081.58	8,169.97	7,933.93	236.04	34.612		
11,200.00	7,870.00	7,888.00	7,888.00	113.37	136.70	90.00	-7,180.03	2,081.58	8,077.34	7,841.07	236.27	34.187		
11,300.00	7,870.00	7,888.00	7,888.00	113.20	136.70	90.00	-7,180.03	2,081.58	7,984.88	7,748.38	236.50	33.763		
11,400.00	7,870.00	7,888.00	7,888.00	113.04	136.70	90.00	-7,180.03	2,081.58	7,892.60	7,655.86	236.74	33.339		
11,500.00	7,870.00	7,888.00	7,888.00	112.89	136.70	90.00	-7,180.03	2,081.58	7,800.51	7,563.53	236.99	32.915		
11,600.00	7,870.00	7,888.00	7,888.00	112.76	136.70	90.00	-7,180.03	2,081.58	7,708.62	7,471.38	237.24	32.493		
11,700.00	7,870.00	7,888.00	7,888.00	112.64	136.70	90.00	-7,180.03	2,081.58	7,616.94	7,379.44	237.50	32.071		
11,800.00	7,870.00	7,888.00	7,888.00	112.53	136.70	90.00	-7,180.03	2,081.58	7,525.47	7,287.69	237.77	31.650		
11,900.00	7,870.00	7,888.00	7,888.00	112.44	136.70	90.00	-7,180.03	2,081.58	7,434.21	7,196.16	238.05	31.229		
12,000.00	7,870.00	7,888.00	7,888.00	112.36	136.70	90.00	-7,180.03	2,081.58	7,343.19	7,104.85	238.34	30.810		
12,100.00	7,870.00	7,888.00	7,888.00	112.29	136.70	90.00	-7,180.03	2,081.58	7,252.40	7,013.76	238.64	30.391		
12,200.00	7,870.00	7,888.00	7,888.00	112.24	136.70	90.00	-7,180.03	2,081.58	7,161.86	6,922.91	238.94	29.973		
12,300.00	7,870.00	7,888.00	7,888.00	112.20	136.70	90.00	-7,180.03	2,081.58	7,071.57	6,832.31	239.26	29.557		
12,400.00	7,870.00	7,888.00	7,888.00	112.17	136.70	90.00	-7,180.03	2,081.58	6,981.54	6,741.96	239.58	29.141		
12,500.00	7,870.00	7,888.00	7,888.00	112.16	136.70	90.00	-7,180.03	2,081.58	6,891.79	6,651.88	239.91	28.726		
12,600.00	7,870.00	7,888.00	7,888.00	112.17	136.70	90.00	-7,180.03	2,081.58	6,802.33	6,562.07	240.26	28.312		
12,700.00	7,870.00	7,888.00	7,888.00	112.19	136.70	90.00	-7,180.03	2,081.58	6,713.16	6,472.55	240.62	27.900		
12,800.00	7,870.00	7,888.00	7,888.00	112.23	136.70	90.00	-7,180.03	2,081.58	6,624.31	6,383.32	240.98	27.489		
12,900.00	7,870.00	7,888.00	7,888.00	112.28	136.70	90.00	-7,180.03	2,081.58	6,535.77	6,294.41	241.36	27.079		
13,000.00	7,870.00	7,888.00	7,888.00	112.36	136.70	90.00	-7,180.03	2,081.58	6,447.57	6,205.82	241.75	26.670		
13,100.00	7,870.00	7,888.00	7,888.00	112.45	136.70	90.00	-7,180.03	2,081.58	6,359.72	6,117.57	242.16	26.263		
13,200.00	7,870.00	7,888.00	7,888.00	112.56	136.70	90.00	-7,180.03	2,081.58	6,272.24	6,029.66	242.57	25.857		
13,300.00	7,870.00	7,888.00	7,888.00	112.68	136.70	90.00	-7,180.03	2,081.58	6,185.13	5,942.13	243.00	25.453		
13,400.00	7,870.00	7,888.00	7,888.00	112.83	136.70	90.00	-7,180.03	2,081.58	6,098.42	5,854.97	243.45	25.050		
13,500.00	7,870.00	7,888.00	7,888.00	113.00	136.70	90.00	-7,180.03	2,081.58	6,012.12	5,768.22	243.91	24.649		
13,600.00	7,870.00	7,888.00	7,888.00	113.19	136.70	90.00	-7,180.03	2,081.58	5,926.25	5,681.88	244.38	24.250		
13,700.00	7,870.00	7,888.00	7,888.00	113.40	136.70	90.00	-7,180.03	2,081.58	5,840.84	5,595.97	244.87	23.853		
13,800.00	7,870.00	7,888.00	7,888.00	113.63	136.70	90.00	-7,180.03	2,081.58	5,755.89	5,510.52	245.37	23.458		
13,900.00	7,870.00	7,888.00	7,888.00	113.89	136.70	90.00	-7,180.03	2,081.58	5,671.43	5,425.54	245.89	23.065		
14,000.00	7,870.00	7,888.00	7,888.00	114.18	136.70	90.00	-7,180.03	2,081.58	5,587.49	5,341.06	246.43	22.674		
14,100.00	7,870.00	7,888.00	7,888.00	114.48	136.70	90.00	-7,180.03	2,081.58	5,504.08	5,257.10	246.98	22.286		
14,200.00	7,870.00	7,888.00	7,888.00	114.82	136.70	90.00	-7,180.03	2,081.58	5,421.23	5,173.69	247.55	21.900		
14,300.00	7,870.00	7,888.00	7,888.00	115.18	136.70	90.00	-7,180.03	2,081.58	5,338.98	5,090.84	248.14	21.516		

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

Offset Design SEC 26-T1N-R68W - ABND VERT CRANDELL E UNIT 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,400.00	7,870.00	7,888.00	7,888.00	115.57	136.70	90.00	-7,180.03	2,081.58	5,257.33	5,008.59	248.74	21.136		
14,500.00	7,870.00	7,888.00	7,888.00	115.99	136.70	90.00	-7,180.03	2,081.58	5,176.33	4,926.96	249.37	20.758		
14,600.00	7,870.00	7,888.00	7,888.00	116.44	136.70	90.00	-7,180.03	2,081.58	5,096.01	4,846.00	250.01	20.383		
14,700.00	7,870.00	7,888.00	7,888.00	116.92	136.70	90.00	-7,180.03	2,081.58	5,016.39	4,765.71	250.68	20.011		
14,800.00	7,870.00	7,888.00	7,888.00	117.44	136.70	90.00	-7,180.03	2,081.58	4,937.52	4,686.15	251.36	19.643		
14,900.00	7,870.00	7,888.00	7,888.00	117.98	136.70	90.00	-7,180.03	2,081.58	4,859.42	4,607.35	252.06	19.278		
15,000.00	7,870.00	7,888.00	7,888.00	118.56	136.70	90.00	-7,180.03	2,081.58	4,782.14	4,529.35	252.79	18.918		
15,100.00	7,870.00	7,888.00	7,888.00	119.17	136.70	90.00	-7,180.03	2,081.58	4,705.71	4,452.18	253.53	18.561		
15,200.00	7,870.00	7,888.00	7,888.00	119.81	136.70	90.00	-7,180.03	2,081.58	4,630.18	4,375.88	254.30	18.208		
15,300.00	7,870.00	7,888.00	7,888.00	120.48	136.70	90.00	-7,180.03	2,081.58	4,555.60	4,300.51	255.08	17.859		
15,400.00	7,870.00	7,888.00	7,888.00	121.19	136.70	90.00	-7,180.03	2,081.58	4,482.00	4,226.11	255.89	17.515		
15,500.00	7,870.00	7,888.00	7,888.00	121.93	136.70	90.00	-7,180.03	2,081.58	4,409.45	4,152.73	256.71	17.176		
15,600.00	7,870.00	7,888.00	7,888.00	122.71	136.70	90.00	-7,180.03	2,081.58	4,337.98	4,080.42	257.56	16.843		
15,700.00	7,870.00	7,888.00	7,888.00	123.52	136.70	90.00	-7,180.03	2,081.58	4,267.67	4,009.24	258.42	16.514		
15,800.00	7,870.00	7,888.00	7,888.00	124.36	136.70	90.00	-7,180.03	2,081.58	4,198.55	3,939.25	259.31	16.191		
15,900.00	7,870.00	7,888.00	7,888.00	125.23	136.70	90.00	-7,180.03	2,081.58	4,130.71	3,870.50	260.21	15.875		
16,000.00	7,870.00	7,888.00	7,888.00	126.14	136.70	90.00	-7,180.03	2,081.58	4,064.19	3,803.07	261.12	15.564		
16,100.00	7,870.00	7,888.00	7,888.00	127.07	136.70	90.00	-7,180.03	2,081.58	3,999.06	3,737.01	262.05	15.261		
16,200.00	7,870.00	7,888.00	7,888.00	128.04	136.70	90.00	-7,180.03	2,081.58	3,935.40	3,672.41	263.00	14.964		
16,300.00	7,870.00	7,888.00	7,888.00	129.04	136.70	90.00	-7,180.03	2,081.58	3,873.28	3,609.33	263.95	14.674		
16,400.00	7,870.00	7,888.00	7,888.00	130.06	136.70	90.00	-7,180.03	2,081.58	3,812.76	3,547.85	264.91	14.392		
16,500.00	7,870.00	7,888.00	7,888.00	131.11	136.70	90.00	-7,180.03	2,081.58	3,753.93	3,488.05	265.88	14.119		
16,600.00	7,870.00	7,888.00	7,888.00	132.19	136.70	90.00	-7,180.03	2,081.58	3,696.88	3,430.02	266.85	13.854		
16,700.00	7,870.00	7,888.00	7,888.00	133.29	136.70	90.00	-7,180.03	2,081.58	3,641.67	3,373.85	267.83	13.597		
16,800.00	7,870.00	7,888.00	7,888.00	134.42	136.70	90.00	-7,180.03	2,081.58	3,588.41	3,319.61	268.79	13.350		
16,900.00	7,870.00	7,888.00	7,888.00	135.57	136.70	90.00	-7,180.03	2,081.58	3,537.17	3,267.42	269.75	13.113		
17,000.00	7,870.00	7,888.00	7,888.00	136.75	136.70	90.00	-7,180.03	2,081.58	3,488.04	3,217.34	270.70	12.885		
17,100.00	7,870.00	7,888.00	7,888.00	137.94	136.70	90.00	-7,180.03	2,081.58	3,441.12	3,169.50	271.62	12.669		
17,200.00	7,870.00	7,888.00	7,888.00	139.16	136.70	90.00	-7,180.03	2,081.58	3,396.50	3,123.97	272.53	12.463		
17,300.00	7,870.00	7,888.00	7,888.00	140.39	136.70	90.00	-7,180.03	2,081.58	3,354.26	3,080.86	273.40	12.269		
17,400.00	7,870.00	7,888.00	7,888.00	141.65	136.70	90.00	-7,180.03	2,081.58	3,314.51	3,040.26	274.24	12.086		
17,500.00	7,870.00	7,888.00	7,888.00	142.92	136.70	90.00	-7,180.03	2,081.58	3,277.32	3,002.28	275.04	11.916		
17,600.00	7,870.00	7,888.00	7,888.00	144.21	136.70	90.00	-7,180.03	2,081.58	3,242.79	2,967.00	275.79	11.758		
17,700.00	7,870.00	7,888.00	7,888.00	145.52	136.70	90.00	-7,180.03	2,081.58	3,211.01	2,934.52	276.49	11.614		
17,800.00	7,870.00	7,888.00	7,888.00	146.84	136.70	90.00	-7,180.03	2,081.58	3,182.05	2,904.93	277.13	11.482		
17,900.00	7,870.00	7,888.00	7,888.00	148.18	136.70	90.00	-7,180.03	2,081.58	3,156.00	2,878.30	277.70	11.365		
18,000.00	7,870.00	7,888.00	7,888.00	149.54	136.70	90.00	-7,180.03	2,081.58	3,132.93	2,854.73	278.20	11.262		
18,100.00	7,870.00	7,888.00	7,888.00	150.90	136.70	90.00	-7,180.03	2,081.58	3,112.89	2,834.27	278.62	11.173		
18,200.00	7,870.00	7,888.00	7,888.00	152.28	136.70	90.00	-7,180.03	2,081.58	3,095.96	2,817.00	278.96	11.098		
18,300.00	7,870.00	7,888.00	7,888.00	153.67	136.70	90.00	-7,180.03	2,081.58	3,082.19	2,802.97	279.21	11.039		
18,400.00	7,870.00	7,888.00	7,888.00	155.07	136.70	90.00	-7,180.03	2,081.58	3,071.60	2,792.23	279.38	10.994		
18,500.00	7,870.00	7,888.00	7,888.00	156.49	136.70	90.00	-7,180.03	2,081.58	3,064.25	2,784.80	279.45	10.965		
18,600.00	7,870.00	7,888.00	7,888.00	157.91	136.70	90.00	-7,180.03	2,081.58	3,060.15	2,780.72	279.43	10.951		
18,675.60	7,870.00	7,888.00	7,888.00	159.00	136.70	90.00	-7,180.03	2,081.58	3,059.22	2,779.86	279.35	10.951 CC, ES, SF		
18,700.00	7,870.00	7,888.00	7,888.00	159.35	136.70	90.00	-7,180.03	2,081.58	3,059.31	2,780.00	279.32	10.953		
18,800.00	7,870.00	7,888.00	7,888.00	160.79	136.70	90.00	-7,180.03	2,081.58	3,061.74	2,782.64	279.11	10.970		
18,900.00	7,870.00	7,888.00	7,888.00	162.25	136.70	90.00	-7,180.03	2,081.58	3,067.44	2,788.63	278.80	11.002		
19,000.00	7,870.00	7,888.00	7,888.00	163.71	136.70	90.00	-7,180.03	2,081.58	3,076.37	2,797.95	278.41	11.050		
19,100.00	7,870.00	7,888.00	7,888.00	165.18	136.70	90.00	-7,180.03	2,081.58	3,088.51	2,810.58	277.94	11.112		
19,200.00	7,870.00	7,888.00	7,888.00	166.66	136.70	90.00	-7,180.03	2,081.58	3,103.84	2,826.46	277.38	11.190		
19,300.00	7,870.00	7,888.00	7,888.00	168.15	136.70	90.00	-7,180.03	2,081.58	3,122.29	2,845.55	276.74	11.282		
19,400.00	7,870.00	7,888.00	7,888.00	169.65	136.70	90.00	-7,180.03	2,081.58	3,143.81	2,867.78	276.03	11.389		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,500.00	7,870.00	7,888.00	7,888.00	171.15	136.70	90.00	-7,180.03	2,081.58	3,168.35	2,893.10	275.25	11.511	
19,600.00	7,870.00	7,888.00	7,888.00	172.66	136.70	90.00	-7,180.03	2,081.58	3,195.83	2,921.41	274.42	11.646	
19,700.00	7,870.00	7,888.00	7,888.00	174.18	136.70	90.00	-7,180.03	2,081.58	3,226.17	2,952.64	273.53	11.794	
19,800.00	7,870.00	7,888.00	7,888.00	175.70	136.70	90.00	-7,180.03	2,081.58	3,259.31	2,986.71	272.60	11.956	
19,889.26	7,870.00	7,888.00	7,888.00	177.06	136.70	90.00	-7,180.03	2,081.58	3,291.16	3,019.43	271.73	12.112	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	140.52	-6,863.27	5,654.26	8,892.47					
100.00	100.00	69.00	69.00	0.13	0.54	140.52	-6,863.27	5,654.26	8,892.42	8,891.74	0.68	N/A		
200.00	200.00	169.00	169.00	0.49	1.99	140.52	-6,863.27	5,654.26	8,892.42	8,889.94	2.48	3,581.933		
300.00	300.00	269.00	269.00	0.85	3.74	140.52	-6,863.27	5,654.26	8,892.42	8,887.83	4.59	1,938.877		
400.00	399.98	368.98	368.98	1.21	5.48	72.39	-6,863.27	5,654.26	8,891.89	8,885.20	6.69	1,330.050		
500.00	499.84	468.84	468.84	1.56	7.22	72.45	-6,863.27	5,654.26	8,890.31	8,881.52	8.78	1,012.090		
600.00	599.45	568.45	568.45	1.93	8.96	72.56	-6,863.27	5,654.26	8,887.68	8,876.79	10.89	816.195		
700.00	698.70	667.70	667.70	2.32	10.69	72.70	-6,863.27	5,654.26	8,884.01	8,871.01	13.00	683.222		
800.00	797.47	766.47	766.47	2.72	12.42	72.89	-6,863.27	5,654.26	8,879.33	8,864.20	15.13	586.891		
900.00	895.62	864.62	864.62	3.16	14.13	73.11	-6,863.27	5,654.26	8,873.66	8,856.39	17.27	513.766		
1,000.00	993.06	962.06	962.06	3.63	15.83	73.38	-6,863.27	5,654.26	8,867.02	8,847.58	19.43	456.269		
1,100.00	1,089.64	1,058.64	1,058.64	4.14	17.52	73.68	-6,863.27	5,654.26	8,859.44	8,837.82	21.62	409.805		
1,200.00	1,185.27	1,154.27	1,154.27	4.70	19.19	74.01	-6,863.27	5,654.26	8,850.96	8,827.13	23.83	371.426		
1,300.00	1,279.82	1,248.82	1,248.82	5.31	20.84	74.39	-6,863.27	5,654.26	8,841.63	8,815.56	26.07	339.156		
1,400.00	1,373.17	1,342.17	1,342.17	5.97	22.47	74.79	-6,863.27	5,654.26	8,831.48	8,803.14	28.34	311.620		
1,500.00	1,465.21	1,434.21	1,434.21	6.69	24.07	75.23	-6,863.27	5,654.26	8,820.57	8,789.92	30.64	287.831		
1,600.00	1,555.84	1,524.84	1,524.84	7.47	25.65	75.70	-6,863.27	5,654.26	8,808.95	8,775.96	32.98	267.065		
1,700.00	1,644.94	1,613.94	1,613.94	8.31	27.21	76.20	-6,863.27	5,654.26	8,796.67	8,761.31	35.36	248.776		
1,800.00	1,732.39	1,701.39	1,701.39	9.23	28.74	76.72	-6,863.27	5,654.26	8,783.80	8,746.03	37.77	232.543		
1,900.00	1,818.11	1,787.11	1,787.11	10.21	30.23	77.27	-6,863.27	5,654.26	8,770.40	8,730.18	40.22	218.040		
2,000.00	1,901.97	1,870.97	1,870.97	11.26	31.69	77.84	-6,863.27	5,654.26	8,756.54	8,713.83	42.71	205.008		
2,100.00	1,983.88	1,952.88	1,952.88	12.38	33.12	78.42	-6,863.27	5,654.26	8,742.29	8,697.05	45.24	193.238		
2,200.00	2,063.74	2,032.74	2,032.74	13.57	34.52	79.02	-6,863.27	5,654.26	8,727.71	8,679.90	47.81	182.561		
2,300.00	2,141.45	2,110.45	2,110.45	14.84	35.87	79.64	-6,863.27	5,654.26	8,712.89	8,662.48	50.41	172.838		
2,327.78	2,162.65	2,131.65	2,131.65	15.21	36.24	79.81	-6,863.27	5,654.26	8,708.73	8,657.59	51.14	170.293		
2,400.00	2,217.51	2,186.51	2,186.51	16.17	37.20	80.04	-6,863.27	5,654.26	8,698.04	8,645.00	53.04	163.976		
2,500.00	2,293.49	2,262.49	2,262.49	17.51	38.53	80.37	-6,863.27	5,654.26	8,683.64	8,627.94	55.70	155.903		
2,600.00	2,369.47	2,338.47	2,338.47	18.86	39.85	80.69	-6,863.27	5,654.26	8,669.70	8,611.33	58.37	148.536		
2,700.00	2,445.45	2,414.45	2,414.45	20.22	41.18	81.02	-6,863.27	5,654.26	8,656.23	8,595.18	61.05	141.792		
2,800.00	2,521.42	2,509.58	2,490.42	21.59	42.84	81.35	-6,863.27	5,654.26	8,643.22	8,579.14	64.07	134.893		
2,900.00	2,597.40	2,566.40	2,566.40	22.97	43.83	81.67	-6,863.27	5,654.26	8,630.68	8,564.24	66.44	129.901		
3,000.00	2,673.38	2,642.38	2,642.38	24.34	45.16	82.00	-6,863.27	5,654.26	8,618.62	8,549.47	69.15	124.639		
3,100.00	2,749.36	2,718.36	2,718.36	25.73	46.48	82.33	-6,863.27	5,654.26	8,607.03	8,535.17	71.86	119.770		
3,200.00	2,825.33	2,805.67	2,794.33	27.11	48.01	82.66	-6,863.27	5,654.26	8,595.92	8,521.13	74.78	114.947		
3,300.00	2,901.31	2,870.31	2,870.31	28.50	49.14	82.98	-6,863.27	5,654.26	8,585.28	8,507.97	77.31	111.051		
3,400.00	2,977.29	2,946.29	2,946.29	29.90	50.46	83.31	-6,863.27	5,654.26	8,575.12	8,495.08	80.04	107.136		
3,500.00	3,053.27	3,022.27	3,022.27	31.29	51.79	83.64	-6,863.27	5,654.26	8,565.45	8,482.68	82.77	103.480		
3,600.00	3,129.24	3,101.76	3,098.24	32.69	53.18	83.97	-6,863.27	5,654.26	8,556.26	8,470.69	85.57	99.988		
3,700.00	3,205.22	3,174.22	3,174.22	34.08	54.44	84.30	-6,863.27	5,654.26	8,547.55	8,459.30	88.25	96.853		
3,800.00	3,281.20	3,250.20	3,250.20	35.48	55.77	84.63	-6,863.27	5,654.26	8,539.33	8,448.34	91.00	93.843		
3,900.00	3,357.18	3,326.18	3,326.18	36.88	57.09	84.97	-6,863.27	5,654.26	8,531.60	8,437.86	93.74	91.012		
4,000.00	3,433.15	3,402.15	3,402.15	38.29	58.42	85.30	-6,863.27	5,654.26	8,524.36	8,427.87	96.49	88.346		
4,100.00	3,509.13	3,478.13	3,478.13	39.69	59.74	85.63	-6,863.27	5,654.26	8,517.60	8,418.37	99.24	85.831		
4,200.00	3,585.11	3,554.11	3,554.11	41.09	61.07	85.96	-6,863.27	5,654.26	8,511.34	8,409.35	101.99	83.455		
4,300.00	3,661.08	3,630.08	3,630.08	42.50	62.40	86.29	-6,863.27	5,654.26	8,505.57	8,400.83	104.74	81.208		
4,400.00	3,737.06	3,706.06	3,706.06	43.90	63.72	86.63	-6,863.27	5,654.26	8,500.30	8,392.81	107.49	79.080		
4,500.00	3,813.04	3,782.04	3,782.04	45.31	65.05	86.96	-6,863.27	5,654.26	8,495.51	8,385.27	110.24	77.063		
4,600.00	3,889.02	3,858.02	3,858.02	46.71	66.38	87.29	-6,863.27	5,654.26	8,491.23	8,378.23	112.99	75.149		
4,700.00	3,964.99	3,933.99	3,933.99	48.12	67.70	87.63	-6,863.27	5,654.26	8,487.44	8,371.69	115.74	73.330		
4,800.00	4,040.97	4,009.97	4,009.97	49.53	69.03	87.96	-6,863.27	5,654.26	8,484.14	8,365.65	118.49	71.600		
4,900.00	4,116.95	4,085.95	4,085.95	50.94	70.35	88.29	-6,863.27	5,654.26	8,481.34	8,360.10	121.24	69.953		
5,000.00	4,192.93	4,161.93	4,161.93	52.35	71.68	88.63	-6,863.27	5,654.26	8,479.05	8,355.05	123.99	68.384		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - ABND VERT GOLTL 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,268.90	4,237.90	4,237.90	53.76	73.01	88.96	-6,863.27	5,654.26	8,477.24	8,350.51	126.74	66.888		
5,200.00	4,344.88	4,313.88	4,313.88	55.16	74.33	89.29	-6,863.27	5,654.26	8,475.94	8,346.46	129.48	65.460		
5,300.00	4,420.86	4,389.86	4,389.86	56.57	75.66	89.63	-6,863.27	5,654.26	8,475.14	8,342.91	132.23	64.096		
5,400.00	4,496.84	4,465.84	4,465.84	57.98	76.98	89.96	-6,863.27	5,654.26	8,474.83	8,339.87	134.97	62.792		
5,411.24	4,505.38	4,474.38	4,474.38	58.14	77.13	90.00	-6,863.27	5,654.26	8,474.83	8,339.55	135.27	62.649		
5,500.00	4,572.81	4,541.81	4,541.81	59.39	78.31	90.30	-6,863.27	5,654.26	8,475.02	8,337.32	137.70	61.545		
5,600.00	4,648.79	4,617.79	4,617.79	60.81	79.64	90.63	-6,863.27	5,654.26	8,475.72	8,335.28	140.44	60.351		
5,700.00	4,724.77	4,706.23	4,693.77	62.22	81.18	90.96	-6,863.27	5,654.26	8,476.91	8,333.52	143.39	59.118		
5,800.00	4,800.74	4,769.74	4,769.74	63.63	82.29	91.30	-6,863.27	5,654.26	8,478.60	8,332.70	145.90	58.112		
5,900.00	4,876.72	4,845.72	4,845.72	65.04	83.61	91.63	-6,863.27	5,654.26	8,480.78	8,332.16	148.63	57.061		
6,000.00	4,952.70	4,921.70	4,921.70	66.45	84.94	91.97	-6,863.27	5,654.26	8,483.47	8,332.12	151.35	56.052		
6,100.00	5,028.68	5,002.32	4,997.68	67.86	86.35	92.30	-6,863.27	5,654.26	8,486.65	8,332.50	154.15	55.055		
6,200.00	5,104.65	5,042.00	5,042.00	69.27	87.04	92.49	-6,863.27	5,654.26	8,490.39	8,334.16	156.23	54.347		
6,300.00	5,180.63	5,042.00	5,042.00	70.69	87.04	92.49	-6,863.27	5,654.26	8,495.19	8,337.60	157.59	53.906		
6,400.00	5,256.61	5,042.00	5,042.00	72.10	87.04	92.49	-6,863.27	5,654.26	8,501.16	8,342.22	158.94	53.487		
6,500.00	5,332.59	5,042.00	5,042.00	73.51	87.04	92.49	-6,863.27	5,654.26	8,508.30	8,348.03	160.27	53.088		
6,600.00	5,408.56	5,042.00	5,042.00	74.92	87.04	92.49	-6,863.27	5,654.26	8,516.61	8,355.03	161.58	52.708		
6,700.00	5,484.54	5,042.00	5,042.00	76.34	87.04	92.49	-6,863.27	5,654.26	8,526.09	8,363.22	162.87	52.348		
6,800.00	5,560.52	5,042.00	5,042.00	77.75	87.04	92.49	-6,863.27	5,654.26	8,536.73	8,372.58	164.14	52.008		
6,900.00	5,636.50	5,042.00	5,042.00	79.16	87.04	92.49	-6,863.27	5,654.26	8,548.52	8,383.12	165.40	51.685		
7,000.00	5,712.47	5,042.00	5,042.00	80.57	87.04	92.49	-6,863.27	5,654.26	8,561.47	8,394.84	166.63	51.381		
7,100.00	5,788.45	5,042.00	5,042.00	81.99	87.04	92.49	-6,863.27	5,654.26	8,575.56	8,407.72	167.84	51.094		
7,200.00	5,864.43	5,042.00	5,042.00	83.40	87.04	92.49	-6,863.27	5,654.26	8,590.79	8,421.76	169.03	50.824		
7,300.00	5,940.40	5,042.00	5,042.00	84.81	87.04	92.49	-6,863.27	5,654.26	8,607.16	8,436.96	170.20	50.571		
7,400.00	6,016.38	5,042.00	5,042.00	86.23	87.04	92.49	-6,863.27	5,654.26	8,624.66	8,453.31	171.35	50.334		
7,500.00	6,092.36	5,042.00	5,042.00	87.64	87.04	92.49	-6,863.27	5,654.26	8,643.27	8,470.80	172.47	50.114		
7,600.00	6,168.34	5,042.00	5,042.00	89.05	87.04	92.49	-6,863.27	5,654.26	8,663.01	8,489.43	173.58	49.908		
7,700.00	6,244.31	5,042.00	5,042.00	90.47	87.04	92.49	-6,863.27	5,654.26	8,683.85	8,509.19	174.66	49.718		
7,800.00	6,320.29	5,042.00	5,042.00	91.88	87.04	92.49	-6,863.27	5,654.26	8,705.79	8,530.06	175.72	49.543		
7,900.00	6,396.27	5,042.00	5,042.00	93.30	87.04	92.49	-6,863.27	5,654.26	8,728.81	8,552.05	176.76	49.382		
8,000.00	6,472.25	5,042.00	5,042.00	94.71	87.04	92.49	-6,863.27	5,654.26	8,752.92	8,575.15	177.78	49.235		
8,100.00	6,548.22	5,042.00	5,042.00	96.12	87.04	92.49	-6,863.27	5,654.26	8,778.11	8,599.34	178.77	49.102		
8,200.00	6,624.20	5,042.00	5,042.00	97.54	87.04	92.49	-6,863.27	5,654.26	8,804.36	8,624.61	179.74	48.983		
8,300.00	6,700.18	5,042.00	5,042.00	98.95	87.04	92.49	-6,863.27	5,654.26	8,831.66	8,650.96	180.69	48.876		
8,400.00	6,776.16	5,042.00	5,042.00	100.37	87.04	92.49	-6,863.27	5,654.26	8,860.00	8,678.38	181.62	48.783		
8,500.00	6,852.13	5,042.00	5,042.00	101.78	87.04	92.49	-6,863.27	5,654.26	8,889.39	8,706.86	182.53	48.701		
8,600.00	6,928.11	5,042.00	5,042.00	103.20	87.04	92.49	-6,863.27	5,654.26	8,919.79	8,736.38	183.41	48.632		
8,700.00	7,004.09	5,042.00	5,042.00	104.61	87.04	92.49	-6,863.27	5,654.26	8,951.21	8,766.93	184.28	48.575		
8,800.00	7,080.06	5,042.00	5,042.00	106.02	87.04	92.49	-6,863.27	5,654.26	8,983.63	8,798.52	185.12	48.529		
8,900.00	7,156.04	5,042.00	5,042.00	107.44	87.04	92.49	-6,863.27	5,654.26	9,017.05	8,831.11	185.94	48.495		
9,000.00	7,232.02	5,042.00	5,042.00	108.85	87.04	92.49	-6,863.27	5,654.26	9,051.45	8,864.71	186.74	48.472		
9,104.68	7,311.55	5,042.00	5,042.00	110.33	87.04	92.49	-6,863.27	5,654.26	9,088.49	8,900.94	187.55	48.459		
9,150.00	7,346.29	5,042.00	5,042.00	110.97	87.04	87.65	-6,863.27	5,654.26	9,103.23	8,915.33	187.89	48.449		
9,200.00	7,385.15	5,042.00	5,042.00	111.65	87.04	81.86	-6,863.27	5,654.26	9,115.86	8,927.59	188.27	48.420		
9,250.00	7,424.29	5,042.00	5,042.00	112.31	87.04	75.80	-6,863.27	5,654.26	9,124.62	8,936.00	188.63	48.374		
9,300.00	7,463.40	5,042.00	5,042.00	112.93	87.04	69.65	-6,863.27	5,654.26	9,129.46	8,940.49	188.96	48.313		
9,350.00	7,502.19	5,042.00	5,042.00	113.51	87.04	63.62	-6,863.27	5,654.26	9,130.33	8,941.05	189.28	48.238		
9,400.00	7,540.36	5,042.00	5,042.00	114.04	87.04	57.85	-6,863.27	5,654.26	9,127.24	8,937.68	189.56	48.150		
9,450.00	7,577.62	5,042.00	5,042.00	114.53	87.04	52.47	-6,863.27	5,654.26	9,120.20	8,930.40	189.81	48.050		
9,500.00	7,613.70	5,042.00	5,042.00	114.95	87.04	47.52	-6,863.27	5,654.26	9,109.27	8,919.25	190.02	47.939		
9,550.00	7,648.30	5,042.00	5,042.00	115.32	87.04	43.01	-6,863.27	5,654.26	9,094.50	8,904.31	190.19	47.818		
9,600.00	7,681.18	5,042.00	5,042.00	115.63	87.04	38.90	-6,863.27	5,654.26	9,075.99	8,885.67	190.32	47.687		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - ABND VERT GOLTL 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,650.00	7,712.08	5,042.00	5,042.00	115.88	87.04	35.14	-6,863.27	5,654.26	9,053.86	8,863.45	190.42	47.548		
9,700.00	7,740.76	5,042.00	5,042.00	116.08	87.04	31.66	-6,863.27	5,654.26	9,028.26	8,837.79	190.47	47.400		
9,750.00	7,767.01	5,042.00	5,042.00	116.23	87.04	28.37	-6,863.27	5,654.26	8,999.35	8,808.86	190.49	47.244		
9,800.00	7,790.63	5,042.00	5,042.00	116.33	87.04	25.18	-6,863.27	5,654.26	8,967.31	8,776.84	190.47	47.079		
9,850.00	7,811.44	5,042.00	5,042.00	116.38	87.04	21.97	-6,863.27	5,654.26	8,932.37	8,741.95	190.42	46.908		
9,900.00	7,829.28	5,042.00	5,042.00	116.38	87.04	18.61	-6,863.27	5,654.26	8,894.75	8,704.40	190.35	46.728		
9,950.00	7,844.01	5,042.00	5,042.00	116.35	87.04	14.90	-6,863.27	5,654.26	8,854.71	8,664.45	190.25	46.542		
10,000.00	7,855.52	5,042.00	5,042.00	116.28	87.04	10.57	-6,863.27	5,654.26	8,812.51	8,622.38	190.14	46.348		
10,050.00	7,863.72	5,042.00	5,042.00	116.18	87.04	5.22	-6,863.27	5,654.26	8,768.47	8,578.46	190.01	46.148		
10,100.00	7,868.56	5,042.00	5,042.00	116.06	87.04	-1.76	-6,863.27	5,654.26	8,722.87	8,533.00	189.87	45.942		
10,145.94	7,870.00	5,042.00	5,042.00	115.92	87.04	-10.38	-6,863.27	5,654.26	8,679.90	8,490.16	189.74	45.747		
10,200.00	7,870.00	5,042.00	5,042.00	115.76	87.04	-10.38	-6,863.27	5,654.26	8,628.84	8,439.26	189.58	45.515		
10,300.00	7,870.00	5,042.00	5,042.00	115.46	87.04	-10.38	-6,863.27	5,654.26	8,534.49	8,345.20	189.29	45.088		
10,400.00	7,870.00	5,042.00	5,042.00	115.18	87.04	-10.38	-6,863.27	5,654.26	8,440.27	8,251.28	188.98	44.661		
10,500.00	7,870.00	5,042.00	5,042.00	114.91	87.04	-10.38	-6,863.27	5,654.26	8,346.18	8,157.51	188.67	44.236		
10,600.00	7,870.00	5,042.00	5,042.00	114.65	87.04	-10.38	-6,863.27	5,654.26	8,252.23	8,063.88	188.36	43.812		
10,700.00	7,870.00	5,042.00	5,042.00	114.41	87.04	-10.38	-6,863.27	5,654.26	8,158.43	7,970.40	188.03	43.389		
10,800.00	7,870.00	5,042.00	5,042.00	114.17	87.04	-10.38	-6,863.27	5,654.26	8,064.78	7,877.08	187.69	42.968		
10,900.00	7,870.00	5,042.00	5,042.00	113.95	87.04	-10.38	-6,863.27	5,654.26	7,971.28	7,783.93	187.35	42.547		
11,000.00	7,870.00	5,042.00	5,042.00	113.75	87.04	-10.38	-6,863.27	5,654.26	7,877.94	7,690.94	187.00	42.129		
11,100.00	7,870.00	5,042.00	5,042.00	113.55	87.04	-10.38	-6,863.27	5,654.26	7,784.76	7,598.13	186.64	41.711		
11,200.00	7,870.00	5,042.00	5,042.00	113.37	87.04	-10.38	-6,863.27	5,654.26	7,691.76	7,505.50	186.26	41.295		
11,300.00	7,870.00	5,042.00	5,042.00	113.20	87.04	-10.38	-6,863.27	5,654.26	7,598.93	7,413.05	185.88	40.881		
11,400.00	7,870.00	5,042.00	5,042.00	113.04	87.04	-10.38	-6,863.27	5,654.26	7,506.29	7,320.80	185.49	40.468		
11,500.00	7,870.00	5,042.00	5,042.00	112.89	87.04	-10.38	-6,863.27	5,654.26	7,413.84	7,228.76	185.08	40.057		
11,600.00	7,870.00	5,042.00	5,042.00	112.76	87.04	-10.38	-6,863.27	5,654.26	7,321.59	7,136.92	184.67	39.648		
11,700.00	7,870.00	5,042.00	5,042.00	112.64	87.04	-10.38	-6,863.27	5,654.26	7,229.54	7,045.31	184.24	39.240		
11,800.00	7,870.00	5,042.00	5,042.00	112.53	87.04	-10.38	-6,863.27	5,654.26	7,137.71	6,953.91	183.80	38.835		
11,900.00	7,870.00	5,042.00	5,042.00	112.44	87.04	-10.38	-6,863.27	5,654.26	7,046.10	6,862.76	183.34	38.431		
12,000.00	7,870.00	5,042.00	5,042.00	112.36	87.04	-10.38	-6,863.27	5,654.26	6,954.72	6,771.85	182.88	38.030		
12,100.00	7,870.00	5,042.00	5,042.00	112.29	87.04	-10.38	-6,863.27	5,654.26	6,863.59	6,681.19	182.40	37.630		
12,200.00	7,870.00	5,042.00	5,042.00	112.24	87.04	-10.38	-6,863.27	5,654.26	6,772.70	6,590.80	181.90	37.233		
12,300.00	7,870.00	5,042.00	5,042.00	112.20	87.04	-10.38	-6,863.27	5,654.26	6,682.07	6,500.68	181.39	36.838		
12,400.00	7,870.00	5,042.00	5,042.00	112.17	87.04	-10.38	-6,863.27	5,654.26	6,591.72	6,410.85	180.86	36.446		
12,500.00	7,870.00	5,042.00	5,042.00	112.16	87.04	-10.38	-6,863.27	5,654.26	6,501.64	6,321.32	180.32	36.056		
12,600.00	7,870.00	5,042.00	5,042.00	112.17	87.04	-10.38	-6,863.27	5,654.26	6,411.86	6,232.10	179.76	35.669		
12,700.00	7,870.00	5,042.00	5,042.00	112.19	87.04	-10.38	-6,863.27	5,654.26	6,322.39	6,143.21	179.18	35.285		
12,800.00	7,870.00	5,042.00	5,042.00	112.23	87.04	-10.38	-6,863.27	5,654.26	6,233.24	6,054.65	178.59	34.903		
12,900.00	7,870.00	5,042.00	5,042.00	112.28	87.04	-10.38	-6,863.27	5,654.26	6,144.42	5,966.44	177.97	34.525		
13,000.00	7,870.00	5,042.00	5,042.00	112.36	87.04	-10.38	-6,863.27	5,654.26	6,055.95	5,878.61	177.34	34.149		
13,100.00	7,870.00	5,042.00	5,042.00	112.45	87.04	-10.38	-6,863.27	5,654.26	5,967.84	5,791.16	176.68	33.777		
13,200.00	7,870.00	5,042.00	5,042.00	112.56	87.04	-10.38	-6,863.27	5,654.26	5,880.12	5,704.11	176.01	33.409		
13,300.00	7,870.00	5,042.00	5,042.00	112.68	87.04	-10.38	-6,863.27	5,654.26	5,792.79	5,617.48	175.31	33.044		
13,400.00	7,870.00	5,042.00	5,042.00	112.83	87.04	-10.38	-6,863.27	5,654.26	5,705.88	5,531.29	174.58	32.683		
13,500.00	7,870.00	5,042.00	5,042.00	113.00	87.04	-10.38	-6,863.27	5,654.26	5,619.40	5,445.56	173.84	32.325		
13,600.00	7,870.00	5,042.00	5,042.00	113.19	87.04	-10.38	-6,863.27	5,654.26	5,533.38	5,360.31	173.07	31.972		
13,700.00	7,870.00	5,042.00	5,042.00	113.40	87.04	-10.38	-6,863.27	5,654.26	5,447.84	5,275.56	172.27	31.624		
13,800.00	7,870.00	5,042.00	5,042.00	113.63	87.04	-10.38	-6,863.27	5,654.26	5,362.79	5,191.35	171.45	31.280		
13,900.00	7,870.00	5,042.00	5,042.00	113.89	87.04	-10.38	-6,863.27	5,654.26	5,278.27	5,107.68	170.60	30.940		
14,000.00	7,870.00	5,042.00	5,042.00	114.18	87.04	-10.38	-6,863.27	5,654.26	5,194.30	5,024.59	169.72	30.606		
14,100.00	7,870.00	5,042.00	5,042.00	114.48	87.04	-10.38	-6,863.27	5,654.26	5,110.91	4,942.11	168.81	30.277		
14,200.00	7,870.00	5,042.00	5,042.00	114.82	87.04	-10.38	-6,863.27	5,654.26	5,028.13	4,860.26	167.87	29.953		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - ABND VERT GOLTL 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,300.00	7,870.00	5,042.00	5,042.00	115.18	87.04	-10.38	-6,863.27	5,654.26	4,945.98	4,779.08	166.90	29.635		
14,400.00	7,870.00	5,042.00	5,042.00	115.57	87.04	-10.38	-6,863.27	5,654.26	4,864.50	4,698.60	165.90	29.323		
14,500.00	7,870.00	5,042.00	5,042.00	115.99	87.04	-10.38	-6,863.27	5,654.26	4,783.72	4,618.86	164.86	29.017		
14,600.00	7,870.00	5,042.00	5,042.00	116.44	87.04	-10.38	-6,863.27	5,654.26	4,703.68	4,539.89	163.79	28.717		
14,700.00	7,870.00	5,042.00	5,042.00	116.92	87.04	-10.38	-6,863.27	5,654.26	4,624.42	4,461.73	162.69	28.425		
14,800.00	7,870.00	5,042.00	5,042.00	117.44	87.04	-10.38	-6,863.27	5,654.26	4,545.97	4,384.42	161.55	28.140		
14,900.00	7,870.00	5,042.00	5,042.00	117.98	87.04	-10.38	-6,863.27	5,654.26	4,468.39	4,308.01	160.38	27.862		
15,000.00	7,870.00	5,042.00	5,042.00	118.56	87.04	-10.38	-6,863.27	5,654.26	4,391.71	4,232.54	159.17	27.592		
15,100.00	7,870.00	5,042.00	5,042.00	119.17	87.04	-10.38	-6,863.27	5,654.26	4,315.99	4,158.06	157.92	27.330		
15,200.00	7,870.00	5,042.00	5,042.00	119.81	87.04	-10.38	-6,863.27	5,654.26	4,241.27	4,084.63	156.64	27.076		
15,300.00	7,870.00	5,042.00	5,042.00	120.48	87.04	-10.38	-6,863.27	5,654.26	4,167.61	4,012.29	155.33	26.831		
15,400.00	7,870.00	5,042.00	5,042.00	121.19	87.04	-10.38	-6,863.27	5,654.26	4,095.07	3,941.10	153.98	26.595		
15,500.00	7,870.00	5,042.00	5,042.00	121.93	87.04	-10.38	-6,863.27	5,654.26	4,023.71	3,871.12	152.59	26.369		
15,600.00	7,870.00	5,042.00	5,042.00	122.71	87.04	-10.38	-6,863.27	5,654.26	3,953.59	3,802.41	151.18	26.152		
15,700.00	7,870.00	5,042.00	5,042.00	123.52	87.04	-10.38	-6,863.27	5,654.26	3,884.78	3,735.05	149.73	25.945		
15,800.00	7,870.00	5,042.00	5,042.00	124.36	87.04	-10.38	-6,863.27	5,654.26	3,817.35	3,669.09	148.26	25.748		
15,900.00	7,870.00	5,042.00	5,042.00	125.23	87.04	-10.38	-6,863.27	5,654.26	3,751.37	3,604.61	146.76	25.562		
16,000.00	7,870.00	5,042.00	5,042.00	126.14	87.04	-10.38	-6,863.27	5,654.26	3,686.93	3,541.69	145.23	25.386		
16,100.00	7,870.00	5,042.00	5,042.00	127.07	87.04	-10.38	-6,863.27	5,654.26	3,624.09	3,480.40	143.69	25.221		
16,200.00	7,870.00	5,042.00	5,042.00	128.04	87.04	-10.38	-6,863.27	5,654.26	3,562.96	3,420.82	142.14	25.067		
16,300.00	7,870.00	5,042.00	5,042.00	129.04	87.04	-10.38	-6,863.27	5,654.26	3,503.61	3,363.04	140.58	24.923		
16,400.00	7,870.00	5,042.00	5,042.00	130.06	87.04	-10.38	-6,863.27	5,654.26	3,446.15	3,307.14	139.01	24.790		
16,500.00	7,870.00	5,042.00	5,042.00	131.11	87.04	-10.38	-6,863.27	5,654.26	3,390.66	3,253.21	137.45	24.668		
16,600.00	7,870.00	5,042.00	5,042.00	132.19	87.04	-10.38	-6,863.27	5,654.26	3,337.25	3,201.34	135.90	24.556		
16,700.00	7,870.00	5,042.00	5,042.00	133.29	87.04	-10.38	-6,863.27	5,654.26	3,286.01	3,151.63	134.38	24.454		
16,800.00	7,870.00	5,042.00	5,042.00	134.42	87.04	-10.38	-6,863.27	5,654.26	3,237.05	3,104.17	132.88	24.361		
16,900.00	7,870.00	5,042.00	5,042.00	135.57	87.04	-10.38	-6,863.27	5,654.26	3,190.47	3,059.05	131.42	24.276		
17,000.00	7,870.00	5,042.00	5,042.00	136.75	87.04	-10.38	-6,863.27	5,654.26	3,146.38	3,016.37	130.02	24.200		
17,100.00	7,870.00	5,042.00	5,042.00	137.94	87.04	-10.38	-6,863.27	5,654.26	3,104.89	2,976.22	128.67	24.130		
17,200.00	7,870.00	5,042.00	5,042.00	139.16	87.04	-10.38	-6,863.27	5,654.26	3,066.10	2,938.70	127.41	24.066		
17,300.00	7,870.00	5,042.00	5,042.00	140.39	87.04	-10.38	-6,863.27	5,654.26	3,030.12	2,903.89	126.23	24.005		
17,400.00	7,870.00	5,042.00	5,042.00	141.65	87.04	-10.38	-6,863.27	5,654.26	2,997.04	2,871.88	125.16	23.945		
17,500.00	7,870.00	5,042.00	5,042.00	142.92	87.04	-10.38	-6,863.27	5,654.26	2,966.97	2,842.74	124.23	23.884		
17,600.00	7,870.00	5,042.00	5,042.00	144.21	87.04	-10.38	-6,863.27	5,654.26	2,939.99	2,816.55	123.44	23.817		
17,700.00	7,870.00	5,042.00	5,042.00	145.52	87.04	-10.38	-6,863.27	5,654.26	2,916.19	2,793.36	122.83	23.741		
17,800.00	7,870.00	5,042.00	5,042.00	146.84	87.04	-10.38	-6,863.27	5,654.26	2,895.65	2,773.21	122.44	23.650		
17,900.00	7,870.00	5,042.00	5,042.00	148.18	87.04	-10.38	-6,863.27	5,654.26	2,878.44	2,756.15	122.29	23.538		
18,000.00	7,870.00	5,042.00	5,042.00	149.54	87.04	-10.38	-6,863.27	5,654.26	2,864.62	2,742.18	122.44	23.396		
18,100.00	7,870.00	5,042.00	5,042.00	150.90	87.04	-10.38	-6,863.27	5,654.26	2,854.24	2,731.31	122.93	23.219		
18,200.00	7,870.00	5,042.00	5,042.00	152.28	87.04	-10.38	-6,863.27	5,654.26	2,847.33	2,723.54	123.79	23.001		
18,300.00	7,870.00	5,042.00	5,042.00	153.67	87.04	-10.38	-6,863.27	5,654.26	2,843.93	2,718.85	125.07	22.738		
18,346.85	7,870.00	5,042.00	5,042.00	154.33	87.04	-10.38	-6,863.27	5,654.26	2,843.54	2,717.72	125.82	22.600 CC		
18,400.00	7,870.00	5,042.00	5,042.00	155.07	87.04	-10.38	-6,863.27	5,654.26	2,844.04	2,717.26	126.78	22.433 ES		
18,500.00	7,870.00	5,042.00	5,042.00	156.49	87.04	-10.38	-6,863.27	5,654.26	2,847.66	2,718.77	128.89	22.094		
18,600.00	7,870.00	5,042.00	5,042.00	157.91	87.04	-10.38	-6,863.27	5,654.26	2,854.79	2,723.42	131.37	21.730		
18,700.00	7,870.00	5,042.00	5,042.00	159.35	87.04	-10.38	-6,863.27	5,654.26	2,865.39	2,731.22	134.17	21.357		
18,800.00	7,870.00	5,042.00	5,042.00	160.79	87.04	-10.38	-6,863.27	5,654.26	2,879.42	2,742.22	137.21	20.986		
18,900.00	7,870.00	5,042.00	5,042.00	162.25	87.04	-10.38	-6,863.27	5,654.26	2,896.85	2,756.42	140.42	20.629		
19,000.00	7,870.00	5,042.00	5,042.00	163.71	87.04	-10.38	-6,863.27	5,654.26	2,917.59	2,773.84	143.75	20.296		
19,100.00	7,870.00	5,042.00	5,042.00	165.18	87.04	-10.38	-6,863.27	5,654.26	2,941.59	2,794.45	147.15	19.991		
19,200.00	7,870.00	5,042.00	5,042.00	166.66	87.04	-10.38	-6,863.27	5,654.26	2,968.77	2,818.22	150.55	19.719		
19,300.00	7,870.00	5,042.00	5,042.00	168.15	87.04	-10.38	-6,863.27	5,654.26	2,999.04	2,845.11	153.93	19.483		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,400.00	7,870.00	5,042.00	5,042.00	169.65	87.04	-10.38	-6,863.27	5,654.26	3,032.30	2,875.05	157.26	19.282	
19,500.00	7,870.00	5,042.00	5,042.00	171.15	87.04	-10.38	-6,863.27	5,654.26	3,068.47	2,907.96	160.51	19.117	
19,600.00	7,870.00	5,042.00	5,042.00	172.66	87.04	-10.38	-6,863.27	5,654.26	3,107.43	2,943.77	163.66	18.987	
19,700.00	7,870.00	5,042.00	5,042.00	174.18	87.04	-10.38	-6,863.27	5,654.26	3,149.09	2,982.38	166.71	18.889	
19,800.00	7,870.00	5,042.00	5,042.00	175.70	87.04	-10.38	-6,863.27	5,654.26	3,193.34	3,023.70	169.64	18.824	
19,889.26	7,870.00	5,042.00	5,042.00	177.06	87.04	-10.38	-6,863.27	5,654.26	3,234.93	3,062.78	172.15	18.792 SF	

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - ABND VERT GOLTL 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-IN-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	145.37	-8,182.00	5,651.75	9,944.27					
100.00	100.00	67.00	67.00	0.13	0.55	145.37	-8,182.00	5,651.75	9,944.22	9,943.53	0.68	N/A		
200.00	200.00	167.00	167.00	0.49	1.99	145.37	-8,182.00	5,651.75	9,944.22	9,941.73	2.48	4,005.605		
300.00	300.00	267.00	267.00	0.85	3.74	145.37	-8,182.00	5,651.75	9,944.22	9,939.63	4.59	2,168.208		
400.00	399.98	366.98	366.98	1.21	5.48	77.24	-8,182.00	5,651.75	9,943.83	9,937.14	6.69	1,487.395		
500.00	499.84	466.84	466.84	1.56	7.22	77.29	-8,182.00	5,651.75	9,942.67	9,933.89	8.78	1,131.882		
600.00	599.45	566.45	566.45	1.93	8.96	77.38	-8,182.00	5,651.75	9,940.76	9,929.87	10.89	912.856		
700.00	698.70	665.70	665.70	2.32	10.69	77.50	-8,182.00	5,651.75	9,938.09	9,925.08	13.00	764.183		
800.00	797.47	764.47	764.47	2.72	12.42	77.65	-8,182.00	5,651.75	9,934.68	9,919.55	15.13	656.481		
900.00	895.62	862.62	862.62	3.16	14.13	77.84	-8,182.00	5,651.75	9,930.55	9,913.28	17.28	574.728		
1,000.00	993.06	960.06	960.06	3.63	15.83	78.05	-8,182.00	5,651.75	9,925.74	9,906.29	19.44	510.452		
1,100.00	1,089.64	1,056.64	1,056.64	4.14	17.52	78.30	-8,182.00	5,651.75	9,920.26	9,898.62	21.64	458.516		
1,200.00	1,185.27	1,152.27	1,152.27	4.70	19.19	78.58	-8,182.00	5,651.75	9,914.14	9,890.29	23.85	415.626		
1,300.00	1,279.82	1,246.82	1,246.82	5.31	20.84	78.89	-8,182.00	5,651.75	9,907.43	9,881.33	26.10	379.571		
1,400.00	1,373.17	1,340.17	1,340.17	5.97	22.47	79.22	-8,182.00	5,651.75	9,900.16	9,871.78	28.38	348.815		
1,500.00	1,465.21	1,432.21	1,432.21	6.69	24.07	79.58	-8,182.00	5,651.75	9,892.38	9,861.68	30.70	322.255		
1,600.00	1,555.84	1,522.84	1,522.84	7.47	25.65	79.96	-8,182.00	5,651.75	9,884.12	9,851.07	33.05	299.080		
1,700.00	1,644.94	1,611.94	1,611.94	8.31	27.21	80.37	-8,182.00	5,651.75	9,875.45	9,840.01	35.44	278.679		
1,800.00	1,732.39	1,700.61	1,699.39	9.23	28.76	80.79	-8,182.00	5,651.75	9,866.41	9,828.53	37.88	260.437		
1,900.00	1,818.11	1,785.11	1,785.11	10.21	30.23	81.23	-8,182.00	5,651.75	9,857.06	9,816.74	40.33	244.423		
2,000.00	1,901.97	1,868.97	1,868.97	11.26	31.69	81.68	-8,182.00	5,651.75	9,847.46	9,804.63	42.83	229.912		
2,100.00	1,983.88	1,950.88	1,950.88	12.38	33.12	82.15	-8,182.00	5,651.75	9,837.66	9,792.29	45.37	216.816		
2,200.00	2,063.74	2,030.74	2,030.74	13.57	34.52	82.63	-8,182.00	5,651.75	9,827.73	9,779.78	47.95	204.943		
2,300.00	2,141.45	2,108.45	2,108.45	14.84	35.87	83.11	-8,182.00	5,651.75	9,817.73	9,767.16	50.57	194.139		
2,327.78	2,162.65	2,129.65	2,129.65	15.21	36.24	83.25	-8,182.00	5,651.75	9,814.95	9,763.65	51.30	191.312		
2,400.00	2,217.51	2,184.51	2,184.51	16.17	37.20	83.45	-8,182.00	5,651.75	9,807.83	9,754.61	53.22	184.297		
2,500.00	2,293.49	2,260.49	2,260.49	17.51	38.53	83.74	-8,182.00	5,651.75	9,798.33	9,742.45	55.88	175.337		
2,600.00	2,369.47	2,336.47	2,336.47	18.86	39.85	84.03	-8,182.00	5,651.75	9,789.25	9,730.69	58.56	167.163		
2,700.00	2,445.45	2,412.45	2,412.45	20.22	41.18	84.32	-8,182.00	5,651.75	9,780.60	9,719.35	61.25	159.683		
2,800.00	2,521.42	2,488.42	2,488.42	21.59	42.51	84.61	-8,182.00	5,651.75	9,772.37	9,708.43	63.95	152.818		
2,900.00	2,597.40	2,564.40	2,564.40	22.97	43.83	84.90	-8,182.00	5,651.75	9,764.57	9,697.92	66.65	146.499		
3,000.00	2,673.38	2,640.38	2,640.38	24.34	45.16	85.19	-8,182.00	5,651.75	9,757.20	9,687.83	69.36	140.667		
3,100.00	2,749.36	2,716.36	2,716.36	25.73	46.48	85.48	-8,182.00	5,651.75	9,750.25	9,678.17	72.08	135.269		
3,200.00	2,825.33	2,807.67	2,792.33	27.11	48.08	85.77	-8,182.00	5,651.75	9,743.73	9,668.67	75.07	129.798		
3,300.00	2,901.31	2,868.31	2,868.31	28.50	49.14	86.06	-8,182.00	5,651.75	9,737.65	9,660.12	77.53	125.606		
3,400.00	2,977.29	2,944.29	2,944.29	29.90	50.46	86.35	-8,182.00	5,651.75	9,731.99	9,651.74	80.25	121.266		
3,500.00	3,053.27	3,020.27	3,020.27	31.29	51.79	86.64	-8,182.00	5,651.75	9,726.76	9,643.78	82.98	117.213		
3,600.00	3,129.24	3,103.76	3,096.24	32.69	53.25	86.93	-8,182.00	5,651.75	9,721.97	9,636.12	85.85	113.247		
3,700.00	3,205.22	3,172.22	3,172.22	34.08	54.44	87.22	-8,182.00	5,651.75	9,717.61	9,629.16	88.45	109.865		
3,800.00	3,281.20	3,248.20	3,248.20	35.48	55.77	87.51	-8,182.00	5,651.75	9,713.68	9,622.50	91.19	106.526		
3,900.00	3,357.18	3,324.18	3,324.18	36.88	57.09	87.80	-8,182.00	5,651.75	9,710.19	9,616.27	93.92	103.384		
4,000.00	3,433.15	3,400.15	3,400.15	38.29	58.42	88.10	-8,182.00	5,651.75	9,707.13	9,610.47	96.66	100.425		
4,100.00	3,509.13	3,476.13	3,476.13	39.69	59.74	88.39	-8,182.00	5,651.75	9,704.50	9,605.11	99.40	97.632		
4,200.00	3,585.11	3,552.11	3,552.11	41.09	61.07	88.68	-8,182.00	5,651.75	9,702.31	9,600.18	102.14	94.993		
4,300.00	3,661.08	3,628.08	3,628.08	42.50	62.40	88.97	-8,182.00	5,651.75	9,700.56	9,595.68	104.88	92.496		
4,400.00	3,737.06	3,704.06	3,704.06	43.90	63.72	89.26	-8,182.00	5,651.75	9,699.24	9,591.63	107.61	90.130		
4,500.00	3,813.04	3,780.04	3,780.04	45.31	65.05	89.55	-8,182.00	5,651.75	9,698.36	9,588.01	110.35	87.887		
4,600.00	3,889.02	3,856.02	3,856.02	46.71	66.38	89.85	-8,182.00	5,651.75	9,697.91	9,584.82	113.09	85.756		
4,652.66	3,929.03	3,903.97	3,896.03	47.46	67.21	90.00	-8,182.00	5,651.75	9,697.85	9,583.18	114.67	84.574		
4,700.00	3,964.99	3,931.99	3,931.99	48.12	67.70	90.14	-8,182.00	5,651.75	9,697.90	9,582.08	115.82	83.731		
4,800.00	4,040.97	4,007.97	4,007.97	49.53	69.03	90.43	-8,182.00	5,651.75	9,698.32	9,579.77	118.56	81.803		
4,900.00	4,116.95	4,083.95	4,083.95	50.94	70.35	90.72	-8,182.00	5,651.75	9,699.18	9,577.89	121.29	79.967		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
5,000.00	4,192.93	4,159.93	4,159.93	52.35	71.68	91.01	-8,182.00	5,651.75	9,700.48	9,576.46	124.02	78.217		
5,100.00	4,268.90	4,235.90	4,235.90	53.76	73.01	91.31	-8,182.00	5,651.75	9,702.21	9,575.46	126.75	76.546		
5,200.00	4,344.88	4,311.88	4,311.88	55.16	74.33	91.60	-8,182.00	5,651.75	9,704.38	9,574.90	129.48	74.951		
5,300.00	4,420.86	4,387.86	4,387.86	56.57	75.66	91.89	-8,182.00	5,651.75	9,706.98	9,574.78	132.20	73.426		
5,400.00	4,496.84	4,463.84	4,463.84	57.98	76.98	92.18	-8,182.00	5,651.75	9,710.01	9,575.09	134.92	71.967		
5,500.00	4,572.81	4,539.81	4,539.81	59.39	78.31	92.47	-8,182.00	5,651.75	9,713.49	9,575.84	137.64	70.570		
5,600.00	4,648.79	4,615.79	4,615.79	60.81	79.64	92.76	-8,182.00	5,651.75	9,717.39	9,577.03	140.36	69.232		
5,700.00	4,724.77	4,708.23	4,691.77	62.22	81.25	93.05	-8,182.00	5,651.75	9,721.73	9,578.37	143.36	67.813		
5,800.00	4,800.74	4,767.74	4,767.74	63.63	82.29	93.34	-8,182.00	5,651.75	9,726.50	9,580.72	145.78	66.719		
5,900.00	4,876.72	4,843.72	4,843.72	65.04	83.61	93.64	-8,182.00	5,651.75	9,731.70	9,583.21	148.49	65.538		
6,000.00	4,952.70	4,919.70	4,919.70	66.45	84.94	93.93	-8,182.00	5,651.75	9,737.34	9,586.14	151.19	64.403		
6,100.00	5,028.68	4,995.68	4,995.68	67.86	86.27	94.22	-8,182.00	5,651.75	9,743.40	9,589.51	153.89	63.312		
6,200.00	5,104.65	5,020.00	5,020.00	69.27	86.69	94.31	-8,182.00	5,651.75	9,750.03	9,594.35	155.68	62.628		
6,300.00	5,180.63	5,020.00	5,020.00	70.69	86.69	94.31	-8,182.00	5,651.75	9,757.65	9,600.62	157.03	62.139		
6,400.00	5,256.61	5,020.00	5,020.00	72.10	86.69	94.31	-8,182.00	5,651.75	9,766.29	9,607.93	158.36	61.671		
6,500.00	5,332.59	5,020.00	5,020.00	73.51	86.69	94.31	-8,182.00	5,651.75	9,775.95	9,616.27	159.68	61.222		
6,600.00	5,408.56	5,020.00	5,020.00	74.92	86.69	94.31	-8,182.00	5,651.75	9,786.61	9,625.63	160.98	60.793		
6,700.00	5,484.54	5,020.00	5,020.00	76.34	86.69	94.31	-8,182.00	5,651.75	9,798.29	9,636.02	162.27	60.382		
6,800.00	5,560.52	5,020.00	5,020.00	77.75	86.69	94.31	-8,182.00	5,651.75	9,810.97	9,647.43	163.54	59.990		
6,900.00	5,636.50	5,020.00	5,020.00	79.16	86.69	94.31	-8,182.00	5,651.75	9,824.65	9,659.85	164.80	59.616		
7,000.00	5,712.47	5,020.00	5,020.00	80.57	86.69	94.31	-8,182.00	5,651.75	9,839.33	9,673.29	166.04	59.259		
7,100.00	5,788.45	5,020.00	5,020.00	81.99	86.69	94.31	-8,182.00	5,651.75	9,855.01	9,687.74	167.26	58.919		
7,200.00	5,864.43	5,020.00	5,020.00	83.40	86.69	94.31	-8,182.00	5,651.75	9,871.67	9,703.20	168.47	58.595		
7,300.00	5,940.40	5,020.00	5,020.00	84.81	86.69	94.31	-8,182.00	5,651.75	9,889.31	9,719.65	169.66	58.288		
7,400.00	6,016.38	5,020.00	5,020.00	86.23	86.69	94.31	-8,182.00	5,651.75	9,907.94	9,737.10	170.84	57.997		
7,500.00	6,092.36	5,020.00	5,020.00	87.64	86.69	94.31	-8,182.00	5,651.75	9,927.53	9,755.54	171.99	57.721		
7,600.00	6,168.34	5,020.00	5,020.00	89.05	86.69	94.31	-8,182.00	5,651.75	9,948.09	9,774.96	173.13	57.460		
7,700.00	6,244.31	5,020.00	5,020.00	90.47	86.69	94.31	-8,182.00	5,651.75	9,969.62	9,795.36	174.25	57.213		
7,800.00	6,320.29	5,020.00	5,020.00	91.88	86.69	94.31	-8,182.00	5,651.75	9,992.09	9,816.73	175.36	56.981		
10,100.00	7,868.56	5,020.00	5,020.00	116.06	86.69	-0.63	-8,182.00	5,651.75	9,984.60	9,792.89	191.72	52.080		
10,145.94	7,870.00	5,020.00	5,020.00	115.92	86.69	-10.35	-8,182.00	5,651.75	9,941.00	9,749.37	191.62	51.878		
10,200.00	7,870.00	5,020.00	5,020.00	115.76	86.69	-10.35	-8,182.00	5,651.75	9,889.24	9,697.73	191.51	51.639		
10,300.00	7,870.00	5,020.00	5,020.00	115.46	86.69	-10.35	-8,182.00	5,651.75	9,793.57	9,602.27	191.29	51.197		
10,400.00	7,870.00	5,020.00	5,020.00	115.18	86.69	-10.35	-8,182.00	5,651.75	9,697.98	9,506.91	191.07	50.756		
10,500.00	7,870.00	5,020.00	5,020.00	114.91	86.69	-10.35	-8,182.00	5,651.75	9,602.49	9,411.64	190.85	50.316		
10,600.00	7,870.00	5,020.00	5,020.00	114.65	86.69	-10.35	-8,182.00	5,651.75	9,507.08	9,316.47	190.61	49.876		
10,700.00	7,870.00	5,020.00	5,020.00	114.41	86.69	-10.35	-8,182.00	5,651.75	9,411.77	9,221.40	190.38	49.437		
10,800.00	7,870.00	5,020.00	5,020.00	114.17	86.69	-10.35	-8,182.00	5,651.75	9,316.56	9,126.43	190.14	48.999		
10,900.00	7,870.00	5,020.00	5,020.00	113.95	86.69	-10.35	-8,182.00	5,651.75	9,221.46	9,031.56	189.89	48.561		
11,000.00	7,870.00	5,020.00	5,020.00	113.75	86.69	-10.35	-8,182.00	5,651.75	9,126.45	8,936.81	189.64	48.125		
11,100.00	7,870.00	5,020.00	5,020.00	113.55	86.69	-10.35	-8,182.00	5,651.75	9,031.56	8,842.17	189.38	47.689		
11,200.00	7,870.00	5,020.00	5,020.00	113.37	86.69	-10.35	-8,182.00	5,651.75	8,936.77	8,747.65	189.12	47.254		
11,300.00	7,870.00	5,020.00	5,020.00	113.20	86.69	-10.35	-8,182.00	5,651.75	8,842.10	8,653.25	188.85	46.820		
11,400.00	7,870.00	5,020.00	5,020.00	113.04	86.69	-10.35	-8,182.00	5,651.75	8,747.55	8,558.98	188.58	46.387		
11,500.00	7,870.00	5,020.00	5,020.00	112.89	86.69	-10.35	-8,182.00	5,651.75	8,653.13	8,464.83	188.30	45.955		
11,600.00	7,870.00	5,020.00	5,020.00	112.76	86.69	-10.35	-8,182.00	5,651.75	8,558.82	8,370.81	188.01	45.523		
11,700.00	7,870.00	5,020.00	5,020.00	112.64	86.69	-10.35	-8,182.00	5,651.75	8,464.65	8,276.94	187.71	45.093		
11,800.00	7,870.00	5,020.00	5,020.00	112.53	86.69	-10.35	-8,182.00	5,651.75	8,370.62	8,183.20	187.41	44.664		
11,900.00	7,870.00	5,020.00	5,020.00	112.44	86.69	-10.35	-8,182.00	5,651.75	8,276.72	8,089.62	187.10	44.236		
12,000.00	7,870.00	5,020.00	5,020.00	112.36	86.69	-10.35	-8,182.00	5,651.75	8,182.97	7,996.18	186.79	43.809		
12,100.00	7,870.00	5,020.00	5,020.00	112.29	86.69	-10.35	-8,182.00	5,651.75	8,089.37	7,902.91	186.46	43.384		
12,200.00	7,870.00	5,020.00	5,020.00	112.24	86.69	-10.35	-8,182.00	5,651.75	7,995.92	7,809.79	186.13	42.959		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - ABND VERT GOLTL 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
12,300.00	7,870.00	5,020.00	5,020.00	112.20	86.69	-10.35	-8,182.00	5,651.75	7,902.64	7,716.85	185.79	42.536		
12,400.00	7,870.00	5,020.00	5,020.00	112.17	86.69	-10.35	-8,182.00	5,651.75	7,809.52	7,624.08	185.44	42.114		
12,500.00	7,870.00	5,020.00	5,020.00	112.16	86.69	-10.35	-8,182.00	5,651.75	7,716.57	7,531.49	185.08	41.694		
12,600.00	7,870.00	5,020.00	5,020.00	112.17	86.69	-10.35	-8,182.00	5,651.75	7,623.80	7,439.09	184.71	41.274		
12,700.00	7,870.00	5,020.00	5,020.00	112.19	86.69	-10.35	-8,182.00	5,651.75	7,531.22	7,346.88	184.33	40.857		
12,800.00	7,870.00	5,020.00	5,020.00	112.23	86.69	-10.35	-8,182.00	5,651.75	7,438.82	7,254.88	183.94	40.441		
12,900.00	7,870.00	5,020.00	5,020.00	112.28	86.69	-10.35	-8,182.00	5,651.75	7,346.63	7,163.09	183.54	40.026		
13,000.00	7,870.00	5,020.00	5,020.00	112.36	86.69	-10.35	-8,182.00	5,651.75	7,254.64	7,071.51	183.14	39.614		
13,100.00	7,870.00	5,020.00	5,020.00	112.45	86.69	-10.35	-8,182.00	5,651.75	7,162.87	6,980.16	182.72	39.202		
13,200.00	7,870.00	5,020.00	5,020.00	112.56	86.69	-10.35	-8,182.00	5,651.75	7,071.32	6,889.04	182.28	38.793		
13,300.00	7,870.00	5,020.00	5,020.00	112.68	86.69	-10.35	-8,182.00	5,651.75	6,980.01	6,798.17	181.84	38.386		
13,400.00	7,870.00	5,020.00	5,020.00	112.83	86.69	-10.35	-8,182.00	5,651.75	6,888.93	6,707.55	181.38	37.980		
13,500.00	7,870.00	5,020.00	5,020.00	113.00	86.69	-10.35	-8,182.00	5,651.75	6,798.11	6,617.20	180.91	37.577		
13,600.00	7,870.00	5,020.00	5,020.00	113.19	86.69	-10.35	-8,182.00	5,651.75	6,707.55	6,527.11	180.43	37.175		
13,700.00	7,870.00	5,020.00	5,020.00	113.40	86.69	-10.35	-8,182.00	5,651.75	6,617.25	6,437.32	179.93	36.776		
13,800.00	7,870.00	5,020.00	5,020.00	113.63	86.69	-10.35	-8,182.00	5,651.75	6,527.25	6,347.82	179.42	36.379		
13,900.00	7,870.00	5,020.00	5,020.00	113.89	86.69	-10.35	-8,182.00	5,651.75	6,437.53	6,258.63	178.90	35.984		
14,000.00	7,870.00	5,020.00	5,020.00	114.18	86.69	-10.35	-8,182.00	5,651.75	6,348.13	6,169.77	178.36	35.592		
14,100.00	7,870.00	5,020.00	5,020.00	114.48	86.69	-10.35	-8,182.00	5,651.75	6,259.04	6,081.24	177.80	35.202		
14,200.00	7,870.00	5,020.00	5,020.00	114.82	86.69	-10.35	-8,182.00	5,651.75	6,170.29	5,993.06	177.23	34.815		
14,300.00	7,870.00	5,020.00	5,020.00	115.18	86.69	-10.35	-8,182.00	5,651.75	6,081.89	5,905.25	176.64	34.431		
14,400.00	7,870.00	5,020.00	5,020.00	115.57	86.69	-10.35	-8,182.00	5,651.75	5,993.85	5,817.82	176.03	34.050		
14,500.00	7,870.00	5,020.00	5,020.00	115.99	86.69	-10.35	-8,182.00	5,651.75	5,906.19	5,730.79	175.41	33.671		
14,600.00	7,870.00	5,020.00	5,020.00	116.44	86.69	-10.35	-8,182.00	5,651.75	5,818.94	5,644.17	174.76	33.296		
14,700.00	7,870.00	5,020.00	5,020.00	116.92	86.69	-10.35	-8,182.00	5,651.75	5,732.09	5,557.99	174.10	32.924		
14,800.00	7,870.00	5,020.00	5,020.00	117.44	86.69	-10.35	-8,182.00	5,651.75	5,645.69	5,472.27	173.42	32.555		
14,900.00	7,870.00	5,020.00	5,020.00	117.98	86.69	-10.35	-8,182.00	5,651.75	5,559.74	5,387.02	172.71	32.190		
15,000.00	7,870.00	5,020.00	5,020.00	118.56	86.69	-10.35	-8,182.00	5,651.75	5,474.26	5,302.27	171.99	31.829		
15,100.00	7,870.00	5,020.00	5,020.00	119.17	86.69	-10.35	-8,182.00	5,651.75	5,389.29	5,218.05	171.24	31.471		
15,200.00	7,870.00	5,020.00	5,020.00	119.81	86.69	-10.35	-8,182.00	5,651.75	5,304.84	5,134.36	170.48	31.118		
15,300.00	7,870.00	5,020.00	5,020.00	120.48	86.69	-10.35	-8,182.00	5,651.75	5,220.94	5,051.25	169.69	30.768		
15,400.00	7,870.00	5,020.00	5,020.00	121.19	86.69	-10.35	-8,182.00	5,651.75	5,137.62	4,968.74	168.87	30.423		
15,500.00	7,870.00	5,020.00	5,020.00	121.93	86.69	-10.35	-8,182.00	5,651.75	5,054.90	4,886.86	168.03	30.082		
15,600.00	7,870.00	5,020.00	5,020.00	122.71	86.69	-10.35	-8,182.00	5,651.75	4,972.81	4,805.64	167.17	29.746		
15,700.00	7,870.00	5,020.00	5,020.00	123.52	86.69	-10.35	-8,182.00	5,651.75	4,891.40	4,725.11	166.29	29.415		
15,800.00	7,870.00	5,020.00	5,020.00	124.36	86.69	-10.35	-8,182.00	5,651.75	4,810.68	4,645.30	165.38	29.089		
15,900.00	7,870.00	5,020.00	5,020.00	125.23	86.69	-10.35	-8,182.00	5,651.75	4,730.70	4,566.26	164.44	28.768		
16,000.00	7,870.00	5,020.00	5,020.00	126.14	86.69	-10.35	-8,182.00	5,651.75	4,651.50	4,488.02	163.48	28.453		
16,100.00	7,870.00	5,020.00	5,020.00	127.07	86.69	-10.35	-8,182.00	5,651.75	4,573.11	4,410.61	162.49	28.143		
16,200.00	7,870.00	5,020.00	5,020.00	128.04	86.69	-10.35	-8,182.00	5,651.75	4,495.57	4,334.09	161.48	27.839		
16,300.00	7,870.00	5,020.00	5,020.00	129.04	86.69	-10.35	-8,182.00	5,651.75	4,418.95	4,258.50	160.45	27.541		
16,400.00	7,870.00	5,020.00	5,020.00	130.06	86.69	-10.35	-8,182.00	5,651.75	4,343.27	4,183.88	159.39	27.250		
16,500.00	7,870.00	5,020.00	5,020.00	131.11	86.69	-10.35	-8,182.00	5,651.75	4,268.59	4,110.28	158.30	26.964		
16,600.00	7,870.00	5,020.00	5,020.00	132.19	86.69	-10.35	-8,182.00	5,651.75	4,194.97	4,037.77	157.20	26.686		
16,700.00	7,870.00	5,020.00	5,020.00	133.29	86.69	-10.35	-8,182.00	5,651.75	4,122.45	3,966.38	156.07	26.414		
16,800.00	7,870.00	5,020.00	5,020.00	134.42	86.69	-10.35	-8,182.00	5,651.75	4,051.11	3,896.19	154.92	26.149		
16,900.00	7,870.00	5,020.00	5,020.00	135.57	86.69	-10.35	-8,182.00	5,651.75	3,981.00	3,827.25	153.76	25.892		
17,000.00	7,870.00	5,020.00	5,020.00	136.75	86.69	-10.35	-8,182.00	5,651.75	3,912.20	3,759.62	152.57	25.641		
17,100.00	7,870.00	5,020.00	5,020.00	137.94	86.69	-10.35	-8,182.00	5,651.75	3,844.76	3,693.38	151.38	25.399		
17,200.00	7,870.00	5,020.00	5,020.00	139.16	86.69	-10.35	-8,182.00	5,651.75	3,778.76	3,628.59	150.17	25.164		
17,300.00	7,870.00	5,020.00	5,020.00	140.39	86.69	-10.35	-8,182.00	5,651.75	3,714.29	3,565.34	148.95	24.936		
17,400.00	7,870.00	5,020.00	5,020.00	141.65	86.69	-10.35	-8,182.00	5,651.75	3,651.41	3,503.68	147.73	24.717		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,500.00	7,870.00	5,020.00	5,020.00	142.92	86.69	-10.35	-8,182.00	5,651.75	3,590.22	3,443.71	146.51	24.505	
17,600.00	7,870.00	5,020.00	5,020.00	144.21	86.69	-10.35	-8,182.00	5,651.75	3,530.81	3,385.52	145.29	24.302	
17,700.00	7,870.00	5,020.00	5,020.00	145.52	86.69	-10.35	-8,182.00	5,651.75	3,473.25	3,329.17	144.08	24.106	
17,800.00	7,870.00	5,020.00	5,020.00	146.84	86.69	-10.35	-8,182.00	5,651.75	3,417.65	3,274.77	142.88	23.919	
17,900.00	7,870.00	5,020.00	5,020.00	148.18	86.69	-10.35	-8,182.00	5,651.75	3,364.11	3,222.40	141.71	23.740	
18,000.00	7,870.00	5,020.00	5,020.00	149.54	86.69	-10.35	-8,182.00	5,651.75	3,312.72	3,172.17	140.56	23.569	
18,100.00	7,870.00	5,020.00	5,020.00	150.90	86.69	-10.35	-8,182.00	5,651.75	3,263.59	3,124.15	139.44	23.406	
18,200.00	7,870.00	5,020.00	5,020.00	152.28	86.69	-10.35	-8,182.00	5,651.75	3,216.81	3,078.46	138.36	23.250	
18,300.00	7,870.00	5,020.00	5,020.00	153.67	86.69	-10.35	-8,182.00	5,651.75	3,172.50	3,035.18	137.32	23.102	
18,400.00	7,870.00	5,020.00	5,020.00	155.07	86.69	-10.35	-8,182.00	5,651.75	3,130.76	2,994.41	136.35	22.962	
18,500.00	7,870.00	5,020.00	5,020.00	156.49	86.69	-10.35	-8,182.00	5,651.75	3,091.69	2,956.26	135.44	22.828	
18,600.00	7,870.00	5,020.00	5,020.00	157.91	86.69	-10.35	-8,182.00	5,651.75	3,055.40	2,920.79	134.60	22.700	
18,700.00	7,870.00	5,020.00	5,020.00	159.35	86.69	-10.35	-8,182.00	5,651.75	3,021.97	2,888.12	133.86	22.576	
18,800.00	7,870.00	5,020.00	5,020.00	160.79	86.69	-10.35	-8,182.00	5,651.75	2,991.52	2,858.30	133.22	22.456	
18,900.00	7,870.00	5,020.00	5,020.00	162.25	86.69	-10.35	-8,182.00	5,651.75	2,964.14	2,831.43	132.71	22.336	
19,000.00	7,870.00	5,020.00	5,020.00	163.71	86.69	-10.35	-8,182.00	5,651.75	2,939.89	2,807.55	132.34	22.214	
19,100.00	7,870.00	5,020.00	5,020.00	165.18	86.69	-10.35	-8,182.00	5,651.75	2,918.88	2,786.72	132.16	22.086	
19,200.00	7,870.00	5,020.00	5,020.00	166.66	86.69	-10.35	-8,182.00	5,651.75	2,901.16	2,768.98	132.19	21.947	
19,300.00	7,870.00	5,020.00	5,020.00	168.15	86.69	-10.35	-8,182.00	5,651.75	2,886.80	2,754.33	132.47	21.792	
19,400.00	7,870.00	5,020.00	5,020.00	169.65	86.69	-10.35	-8,182.00	5,651.75	2,875.85	2,742.80	133.05	21.615	
19,500.00	7,870.00	5,020.00	5,020.00	171.15	86.69	-10.35	-8,182.00	5,651.75	2,868.35	2,734.38	133.97	21.410	
19,600.00	7,870.00	5,020.00	5,020.00	172.66	86.69	-10.35	-8,182.00	5,651.75	2,864.31	2,729.05	135.26	21.176	
19,665.57	7,870.00	5,020.00	5,020.00	173.65	86.69	-10.35	-8,182.00	5,651.75	2,863.56	2,727.24	136.32	21.006 CC	
19,700.00	7,870.00	5,020.00	5,020.00	174.18	86.69	-10.35	-8,182.00	5,651.75	2,863.77	2,726.83	136.94	20.912 ES	
19,800.00	7,870.00	5,020.00	5,020.00	175.70	86.69	-10.35	-8,182.00	5,651.75	2,866.72	2,727.72	139.00	20.624	
19,889.26	7,870.00	5,020.00	5,020.00	177.06	86.69	-10.35	-8,182.00	5,651.75	2,872.29	2,731.15	141.13	20.352 SF	

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - ABND VERT JL SEARS 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	162.56	-5,565.54	1,748.73	5,833.87					
100.00	100.00	71.00	71.00	0.13	0.58	162.56	-5,565.54	1,748.73	5,833.80	5,833.09	0.71	8,209.127		
200.00	200.00	171.00	171.00	0.49	2.05	162.56	-5,565.54	1,748.73	5,833.80	5,831.26	2.54	2,293.466		
300.00	300.00	271.00	271.00	0.85	3.80	162.56	-5,565.54	1,748.73	5,833.80	5,829.15	4.65	1,255.266		
400.00	399.98	370.98	370.98	1.21	5.54	94.43	-5,565.54	1,748.73	5,833.94	5,827.19	6.75	864.718		
500.00	499.84	470.84	470.84	1.56	7.28	94.47	-5,565.54	1,748.73	5,834.34	5,825.50	8.85	659.553		
600.00	599.45	570.45	570.45	1.93	9.02	94.54	-5,565.54	1,748.73	5,835.03	5,824.08	10.95	532.753		
700.00	698.70	669.70	669.70	2.32	10.75	94.64	-5,565.54	1,748.73	5,836.01	5,822.94	13.07	446.527		
800.00	797.47	768.47	768.47	2.72	12.48	94.76	-5,565.54	1,748.73	5,837.31	5,822.11	15.20	384.001		
900.00	895.62	866.62	866.62	3.16	14.19	94.91	-5,565.54	1,748.73	5,838.95	5,821.60	17.35	336.518		
1,000.00	993.06	964.06	964.06	3.63	15.89	95.09	-5,565.54	1,748.73	5,840.96	5,821.44	19.52	299.186		
1,100.00	1,089.64	1,060.64	1,060.64	4.14	17.58	95.28	-5,565.54	1,748.73	5,843.38	5,821.67	21.72	269.034		
1,200.00	1,185.27	1,156.27	1,156.27	4.70	19.25	95.50	-5,565.54	1,748.73	5,846.26	5,822.31	23.95	244.152		
1,300.00	1,279.82	1,250.82	1,250.82	5.31	20.90	95.73	-5,565.54	1,748.73	5,849.63	5,823.43	26.20	223.259		
1,400.00	1,373.17	1,344.17	1,344.17	5.97	22.53	95.98	-5,565.54	1,748.73	5,853.54	5,825.05	28.49	205.464		
1,500.00	1,465.21	1,436.21	1,436.21	6.69	24.13	96.24	-5,565.54	1,748.73	5,858.06	5,827.25	30.81	190.124		
1,600.00	1,555.84	1,526.84	1,526.84	7.47	25.71	96.51	-5,565.54	1,748.73	5,863.23	5,830.06	33.17	176.769		
1,700.00	1,644.94	1,615.94	1,615.94	8.31	27.27	96.79	-5,565.54	1,748.73	5,869.12	5,833.56	35.56	165.042		
1,800.00	1,732.39	1,703.39	1,703.39	9.23	28.80	97.07	-5,565.54	1,748.73	5,875.80	5,837.81	37.99	154.671		
1,900.00	1,818.11	1,789.11	1,789.11	10.21	30.29	97.34	-5,565.54	1,748.73	5,883.32	5,842.86	40.45	145.441		
2,000.00	1,901.97	1,872.97	1,872.97	11.26	31.76	97.62	-5,565.54	1,748.73	5,891.75	5,848.80	42.95	137.183		
2,100.00	1,983.88	1,954.88	1,954.88	12.38	33.19	97.89	-5,565.54	1,748.73	5,901.15	5,855.68	45.48	129.762		
2,200.00	2,063.74	2,034.74	2,034.74	13.57	34.58	98.14	-5,565.54	1,748.73	5,911.61	5,863.57	48.04	123.065		
2,300.00	2,141.45	2,112.45	2,112.45	14.84	35.94	98.38	-5,565.54	1,748.73	5,923.17	5,872.55	50.62	117.001		
2,327.78	2,162.65	2,133.65	2,133.65	15.21	36.31	98.45	-5,565.54	1,748.73	5,926.59	5,875.24	51.35	115.421		
2,400.00	2,217.51	2,188.51	2,188.51	16.17	37.26	98.79	-5,565.54	1,748.73	5,935.78	5,882.54	53.23	111.506		
2,500.00	2,293.49	2,264.49	2,264.49	17.51	38.59	99.27	-5,565.54	1,748.73	5,949.09	5,893.24	55.85	106.517		
2,600.00	2,369.47	2,340.47	2,340.47	18.86	39.92	99.74	-5,565.54	1,748.73	5,963.07	5,904.60	58.47	101.980		
2,700.00	2,445.45	2,416.45	2,416.45	20.22	41.24	100.21	-5,565.54	1,748.73	5,977.74	5,916.64	61.10	97.841		
2,800.00	2,521.42	2,507.58	2,492.42	21.59	42.83	100.68	-5,565.54	1,748.73	5,993.07	5,929.09	63.98	93.666		
2,900.00	2,597.40	2,568.40	2,568.40	22.97	43.89	101.15	-5,565.54	1,748.73	6,009.07	5,942.73	66.34	90.580		
3,000.00	2,673.38	2,644.38	2,644.38	24.34	45.22	101.62	-5,565.54	1,748.73	6,025.72	5,956.77	68.96	87.384		
3,100.00	2,749.36	2,720.36	2,720.36	25.73	46.55	102.08	-5,565.54	1,748.73	6,043.03	5,971.46	71.57	84.435		
3,200.00	2,825.33	2,803.67	2,796.33	27.11	48.00	102.55	-5,565.54	1,748.73	6,060.99	5,986.68	74.31	81.569		
3,300.00	2,901.31	2,872.31	2,872.31	28.50	49.20	103.01	-5,565.54	1,748.73	6,079.59	6,002.81	76.78	79.183		
3,400.00	2,977.29	2,948.29	2,948.29	29.90	50.52	103.47	-5,565.54	1,748.73	6,098.83	6,019.45	79.37	76.837		
3,500.00	3,053.27	3,024.27	3,024.27	31.29	51.85	103.93	-5,565.54	1,748.73	6,118.69	6,036.73	81.96	74.654		
3,600.00	3,129.24	3,100.24	3,100.24	32.69	53.18	104.39	-5,565.54	1,748.73	6,139.19	6,054.65	84.54	72.618		
3,700.00	3,205.22	3,176.22	3,176.22	34.08	54.50	104.84	-5,565.54	1,748.73	6,160.29	6,073.18	87.11	70.717		
3,800.00	3,281.20	3,252.20	3,252.20	35.48	55.83	105.30	-5,565.54	1,748.73	6,182.02	6,092.34	89.67	68.939		
3,900.00	3,357.18	3,328.18	3,328.18	36.88	57.15	105.75	-5,565.54	1,748.73	6,204.34	6,112.12	92.23	67.272		
4,000.00	3,433.15	3,404.15	3,404.15	38.29	58.48	106.20	-5,565.54	1,748.73	6,227.27	6,132.50	94.77	65.708		
4,100.00	3,509.13	3,480.13	3,480.13	39.69	59.81	106.65	-5,565.54	1,748.73	6,250.79	6,153.48	97.31	64.238		
4,200.00	3,585.11	3,556.11	3,556.11	41.09	61.13	107.09	-5,565.54	1,748.73	6,274.89	6,175.06	99.83	62.855		
4,300.00	3,661.08	3,632.08	3,632.08	42.50	62.46	107.54	-5,565.54	1,748.73	6,299.57	6,197.23	102.35	61.552		
4,400.00	3,737.06	3,708.06	3,708.06	43.90	63.78	107.98	-5,565.54	1,748.73	6,324.83	6,219.97	104.85	60.322		
4,500.00	3,813.04	3,784.04	3,784.04	45.31	65.11	108.42	-5,565.54	1,748.73	6,350.65	6,243.30	107.34	59.161		
4,600.00	3,889.02	3,860.02	3,860.02	46.71	66.44	108.85	-5,565.54	1,748.73	6,377.02	6,267.19	109.83	58.064		
4,700.00	3,964.99	3,935.99	3,935.99	48.12	67.76	109.29	-5,565.54	1,748.73	6,403.95	6,291.65	112.30	57.025		
4,800.00	4,040.97	4,011.97	4,011.97	49.53	69.09	109.72	-5,565.54	1,748.73	6,431.43	6,316.66	114.76	56.041		
4,900.00	4,116.95	4,087.95	4,087.95	50.94	70.41	110.15	-5,565.54	1,748.73	6,459.44	6,342.22	117.21	55.108		
5,000.00	4,192.93	4,163.93	4,163.93	52.35	71.74	110.58	-5,565.54	1,748.73	6,487.98	6,368.33	119.66	54.222		

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

Offset Design SEC 26-T1N-R68W - ABND VERT JL SEARS 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,268.90	4,239.90	4,239.90	53.76	73.07	111.00	-5,565.54	1,748.73	6,517.05	6,394.96	122.08	53.381		
5,200.00	4,344.88	4,315.88	4,315.88	55.16	74.39	111.43	-5,565.54	1,748.73	6,546.63	6,422.13	124.50	52.582		
5,300.00	4,420.86	4,408.14	4,391.86	56.57	76.00	111.85	-5,565.54	1,748.73	6,576.72	6,449.53	127.19	51.706		
5,400.00	4,496.84	4,467.84	4,467.84	57.98	77.04	112.27	-5,565.54	1,748.73	6,607.32	6,478.01	129.31	51.098		
5,500.00	4,572.81	4,543.81	4,543.81	59.39	78.37	112.68	-5,565.54	1,748.73	6,638.41	6,506.72	131.69	50.409		
5,600.00	4,648.79	4,619.79	4,619.79	60.81	79.70	113.09	-5,565.54	1,748.73	6,669.99	6,535.92	134.06	49.752		
5,700.00	4,724.77	4,704.23	4,695.77	62.22	81.17	113.50	-5,565.54	1,748.73	6,702.05	6,565.47	136.58	49.072		
5,800.00	4,800.74	4,771.74	4,771.74	63.63	82.35	113.91	-5,565.54	1,748.73	6,734.59	6,595.81	138.78	48.527		
5,900.00	4,876.72	4,847.72	4,847.72	65.04	83.67	114.32	-5,565.54	1,748.73	6,767.59	6,626.47	141.12	47.956		
6,000.00	4,952.70	4,923.70	4,923.70	66.45	85.00	114.72	-5,565.54	1,748.73	6,801.06	6,657.61	143.45	47.411		
6,100.00	5,028.68	5,000.32	4,999.68	67.86	86.34	115.12	-5,565.54	1,748.73	6,834.98	6,689.20	145.78	46.886		
6,200.00	5,104.65	5,075.65	5,075.65	69.27	87.65	115.52	-5,565.54	1,748.73	6,869.35	6,721.27	148.08	46.391		
6,300.00	5,180.63	5,125.00	5,125.00	70.69	88.51	115.78	-5,565.54	1,748.73	6,904.21	6,754.32	149.89	46.061		
6,400.00	5,256.61	5,125.00	5,125.00	72.10	88.51	115.78	-5,565.54	1,748.73	6,940.16	6,789.37	150.79	46.025		
6,500.00	5,332.59	5,125.00	5,125.00	73.51	88.51	115.78	-5,565.54	1,748.73	6,977.36	6,825.70	151.66	46.006		
6,600.00	5,408.56	5,125.00	5,125.00	74.92	88.51	115.78	-5,565.54	1,748.73	7,015.79	6,863.29	152.50	46.005		
6,700.00	5,484.54	5,125.00	5,125.00	76.34	88.51	115.78	-5,565.54	1,748.73	7,055.43	6,902.12	153.31	46.020		
6,800.00	5,560.52	5,125.00	5,125.00	77.75	88.51	115.78	-5,565.54	1,748.73	7,096.25	6,942.16	154.10	46.051		
6,900.00	5,636.50	5,125.00	5,125.00	79.16	88.51	115.78	-5,565.54	1,748.73	7,138.25	6,983.40	154.85	46.098		
7,000.00	5,712.47	5,125.00	5,125.00	80.57	88.51	115.78	-5,565.54	1,748.73	7,181.38	7,025.81	155.58	46.160		
7,100.00	5,788.45	5,125.00	5,125.00	81.99	88.51	115.78	-5,565.54	1,748.73	7,225.65	7,069.37	156.28	46.237		
7,200.00	5,864.43	5,125.00	5,125.00	83.40	88.51	115.78	-5,565.54	1,748.73	7,271.02	7,114.07	156.95	46.328		
7,300.00	5,940.40	5,125.00	5,125.00	84.81	88.51	115.78	-5,565.54	1,748.73	7,317.48	7,159.88	157.59	46.432		
7,400.00	6,016.38	5,125.00	5,125.00	86.23	88.51	115.78	-5,565.54	1,748.73	7,365.00	7,206.78	158.22	46.550		
7,500.00	6,092.36	5,125.00	5,125.00	87.64	88.51	115.78	-5,565.54	1,748.73	7,413.57	7,254.75	158.81	46.681		
7,600.00	6,168.34	5,125.00	5,125.00	89.05	88.51	115.78	-5,565.54	1,748.73	7,463.16	7,303.77	159.38	46.825		
7,700.00	6,244.31	5,125.00	5,125.00	90.47	88.51	115.78	-5,565.54	1,748.73	7,513.75	7,353.82	159.93	46.981		
7,800.00	6,320.29	5,125.00	5,125.00	91.88	88.51	115.78	-5,565.54	1,748.73	7,565.33	7,404.87	160.46	47.148		
7,900.00	6,396.27	5,125.00	5,125.00	93.30	88.51	115.78	-5,565.54	1,748.73	7,617.87	7,456.91	160.96	47.327		
8,000.00	6,472.25	5,125.00	5,125.00	94.71	88.51	115.78	-5,565.54	1,748.73	7,671.35	7,509.91	161.44	47.517		
8,100.00	6,548.22	5,125.00	5,125.00	96.12	88.51	115.78	-5,565.54	1,748.73	7,725.76	7,563.86	161.90	47.718		
8,200.00	6,624.20	5,125.00	5,125.00	97.54	88.51	115.78	-5,565.54	1,748.73	7,781.08	7,618.73	162.34	47.929		
8,300.00	6,700.18	5,125.00	5,125.00	98.95	88.51	115.78	-5,565.54	1,748.73	7,837.27	7,674.51	162.76	48.151		
8,400.00	6,776.16	5,125.00	5,125.00	100.37	88.51	115.78	-5,565.54	1,748.73	7,894.34	7,731.17	163.17	48.382		
8,500.00	6,852.13	5,125.00	5,125.00	101.78	88.51	115.78	-5,565.54	1,748.73	7,952.25	7,788.70	163.55	48.623		
8,600.00	6,928.11	5,125.00	5,125.00	103.20	88.51	115.78	-5,565.54	1,748.73	8,011.00	7,847.08	163.91	48.873		
8,700.00	7,004.09	5,125.00	5,125.00	104.61	88.51	115.78	-5,565.54	1,748.73	8,070.55	7,906.29	164.26	49.132		
8,800.00	7,080.06	5,125.00	5,125.00	106.02	88.51	115.78	-5,565.54	1,748.73	8,130.90	7,966.31	164.59	49.400		
8,900.00	7,156.04	5,125.00	5,125.00	107.44	88.51	115.78	-5,565.54	1,748.73	8,192.03	8,027.12	164.91	49.676		
9,000.00	7,232.02	5,125.00	5,125.00	108.85	88.51	115.78	-5,565.54	1,748.73	8,253.91	8,088.70	165.21	49.960		
9,104.68	7,311.55	5,125.00	5,125.00	110.33	88.51	115.78	-5,565.54	1,748.73	8,319.48	8,153.98	165.51	50.266		
9,150.00	7,346.29	5,125.00	5,125.00	110.97	88.51	110.04	-5,565.54	1,748.73	8,346.72	8,181.08	165.64	50.391		
9,200.00	7,385.15	5,125.00	5,125.00	111.65	88.51	103.50	-5,565.54	1,748.73	8,373.58	8,207.79	165.79	50.506		
9,250.00	7,424.29	5,125.00	5,125.00	112.31	88.51	96.87	-5,565.54	1,748.73	8,396.93	8,230.97	165.96	50.597		
9,300.00	7,463.40	5,125.00	5,125.00	112.93	88.51	90.34	-5,565.54	1,748.73	8,416.61	8,250.49	166.12	50.665		
9,350.00	7,502.19	5,125.00	5,125.00	113.51	88.51	84.08	-5,565.54	1,748.73	8,432.51	8,266.23	166.29	50.710		
9,400.00	7,540.36	5,125.00	5,125.00	114.04	88.51	78.25	-5,565.54	1,748.73	8,444.53	8,278.09	166.45	50.734		
9,450.00	7,577.62	5,125.00	5,125.00	114.53	88.51	72.94	-5,565.54	1,748.73	8,452.59	8,286.00	166.59	50.738		
9,500.00	7,613.70	5,125.00	5,125.00	114.95	88.51	68.21	-5,565.54	1,748.73	8,456.64	8,289.92	166.73	50.722		
9,550.00	7,648.30	5,125.00	5,125.00	115.32	88.51	64.08	-5,565.54	1,748.73	8,456.66	8,289.82	166.84	50.687		
9,600.00	7,681.18	5,125.00	5,125.00	115.63	88.51	60.52	-5,565.54	1,748.73	8,452.64	8,285.71	166.93	50.635		
9,650.00	7,712.08	5,125.00	5,125.00	115.88	88.51	57.50	-5,565.54	1,748.73	8,444.62	8,277.61	167.00	50.565		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - ABND VERT JL SEARS 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,700.00	7,740.76	5,125.00	5,125.00	116.08	88.51	54.99	-5,565.54	1,748.73	8,432.64	8,265.58	167.05	50.479		
9,750.00	7,767.01	5,125.00	5,125.00	116.23	88.51	52.94	-5,565.54	1,748.73	8,416.77	8,249.69	167.08	50.376		
9,800.00	7,790.63	5,125.00	5,125.00	116.33	88.51	51.32	-5,565.54	1,748.73	8,397.11	8,230.03	167.08	50.258		
9,850.00	7,811.44	5,125.00	5,125.00	116.38	88.51	50.10	-5,565.54	1,748.73	8,373.80	8,206.74	167.06	50.124		
9,900.00	7,829.28	5,125.00	5,125.00	116.38	88.51	49.27	-5,565.54	1,748.73	8,346.97	8,179.95	167.02	49.974		
9,950.00	7,844.01	5,125.00	5,125.00	116.35	88.51	48.82	-5,565.54	1,748.73	8,316.80	8,149.83	166.97	49.810		
10,000.00	7,855.52	5,125.00	5,125.00	116.28	88.51	48.77	-5,565.54	1,748.73	8,283.48	8,116.57	166.90	49.630		
10,050.00	7,863.72	5,125.00	5,125.00	116.18	88.51	49.15	-5,565.54	1,748.73	8,247.22	8,080.40	166.83	49.436		
10,100.00	7,868.56	5,125.00	5,125.00	116.06	88.51	50.02	-5,565.54	1,748.73	8,208.28	8,041.53	166.75	49.226		
10,145.94	7,870.00	5,125.00	5,125.00	115.92	88.51	51.36	-5,565.54	1,748.73	8,170.35	8,003.68	166.67	49.021		
10,200.00	7,870.00	5,125.00	5,125.00	115.76	88.51	51.36	-5,565.54	1,748.73	8,124.64	7,958.06	166.58	48.774		
10,300.00	7,870.00	5,125.00	5,125.00	115.46	88.51	51.36	-5,565.54	1,748.73	8,040.35	7,873.95	166.41	48.317		
10,400.00	7,870.00	5,125.00	5,125.00	115.18	88.51	51.36	-5,565.54	1,748.73	7,956.43	7,790.20	166.23	47.863		
10,500.00	7,870.00	5,125.00	5,125.00	114.91	88.51	51.36	-5,565.54	1,748.73	7,872.89	7,706.83	166.06	47.411		
10,600.00	7,870.00	5,125.00	5,125.00	114.65	88.51	51.36	-5,565.54	1,748.73	7,789.73	7,623.86	165.88	46.961		
10,700.00	7,870.00	5,125.00	5,125.00	114.41	88.51	51.36	-5,565.54	1,748.73	7,706.98	7,541.28	165.69	46.513		
10,800.00	7,870.00	5,125.00	5,125.00	114.17	88.51	51.36	-5,565.54	1,748.73	7,624.63	7,459.12	165.51	46.067		
10,900.00	7,870.00	5,125.00	5,125.00	113.95	88.51	51.36	-5,565.54	1,748.73	7,542.72	7,377.39	165.32	45.624		
11,000.00	7,870.00	5,125.00	5,125.00	113.75	88.51	51.36	-5,565.54	1,748.73	7,461.24	7,296.11	165.14	45.183		
11,100.00	7,870.00	5,125.00	5,125.00	113.55	88.51	51.36	-5,565.54	1,748.73	7,380.22	7,215.28	164.94	44.744		
11,200.00	7,870.00	5,125.00	5,125.00	113.37	88.51	51.36	-5,565.54	1,748.73	7,299.68	7,134.92	164.75	44.308		
11,300.00	7,870.00	5,125.00	5,125.00	113.20	88.51	51.36	-5,565.54	1,748.73	7,219.61	7,055.06	164.55	43.874		
11,400.00	7,870.00	5,125.00	5,125.00	113.04	88.51	51.36	-5,565.54	1,748.73	7,140.05	6,975.70	164.36	43.443		
11,500.00	7,870.00	5,125.00	5,125.00	112.89	88.51	51.36	-5,565.54	1,748.73	7,061.01	6,896.86	164.16	43.014		
11,600.00	7,870.00	5,125.00	5,125.00	112.76	88.51	51.36	-5,565.54	1,748.73	6,982.51	6,818.56	163.95	42.589		
11,700.00	7,870.00	5,125.00	5,125.00	112.64	88.51	51.36	-5,565.54	1,748.73	6,904.57	6,740.82	163.75	42.166		
11,800.00	7,870.00	5,125.00	5,125.00	112.53	88.51	51.36	-5,565.54	1,748.73	6,827.19	6,663.65	163.54	41.746		
11,900.00	7,870.00	5,125.00	5,125.00	112.44	88.51	51.36	-5,565.54	1,748.73	6,750.42	6,587.09	163.33	41.329		
12,000.00	7,870.00	5,125.00	5,125.00	112.36	88.51	51.36	-5,565.54	1,748.73	6,674.26	6,511.13	163.12	40.916		
12,100.00	7,870.00	5,125.00	5,125.00	112.29	88.51	51.36	-5,565.54	1,748.73	6,598.73	6,435.82	162.91	40.505		
12,200.00	7,870.00	5,125.00	5,125.00	112.24	88.51	51.36	-5,565.54	1,748.73	6,523.86	6,361.17	162.70	40.098		
12,300.00	7,870.00	5,125.00	5,125.00	112.20	88.51	51.36	-5,565.54	1,748.73	6,449.68	6,287.20	162.48	39.694		
12,400.00	7,870.00	5,125.00	5,125.00	112.17	88.51	51.36	-5,565.54	1,748.73	6,376.20	6,213.93	162.27	39.294		
12,500.00	7,870.00	5,125.00	5,125.00	112.16	88.51	51.36	-5,565.54	1,748.73	6,303.45	6,141.40	162.05	38.898		
12,600.00	7,870.00	5,125.00	5,125.00	112.17	88.51	51.36	-5,565.54	1,748.73	6,231.45	6,069.62	161.83	38.505		
12,700.00	7,870.00	5,125.00	5,125.00	112.19	88.51	51.36	-5,565.54	1,748.73	6,160.24	5,998.62	161.62	38.116		
12,800.00	7,870.00	5,125.00	5,125.00	112.23	88.51	51.36	-5,565.54	1,748.73	6,089.84	5,928.44	161.40	37.731		
12,900.00	7,870.00	5,125.00	5,125.00	112.28	88.51	51.36	-5,565.54	1,748.73	6,020.27	5,859.09	161.18	37.350		
13,000.00	7,870.00	5,125.00	5,125.00	112.36	88.51	51.36	-5,565.54	1,748.73	5,951.57	5,790.61	160.97	36.973		
13,100.00	7,870.00	5,125.00	5,125.00	112.45	88.51	51.36	-5,565.54	1,748.73	5,883.77	5,723.02	160.75	36.601		
13,200.00	7,870.00	5,125.00	5,125.00	112.56	88.51	51.36	-5,565.54	1,748.73	5,816.90	5,656.36	160.54	36.233		
13,300.00	7,870.00	5,125.00	5,125.00	112.68	88.51	51.36	-5,565.54	1,748.73	5,750.99	5,590.66	160.33	35.869		
13,400.00	7,870.00	5,125.00	5,125.00	112.83	88.51	51.36	-5,565.54	1,748.73	5,686.08	5,525.95	160.12	35.510		
13,500.00	7,870.00	5,125.00	5,125.00	113.00	88.51	51.36	-5,565.54	1,748.73	5,622.19	5,462.27	159.92	35.156		
13,600.00	7,870.00	5,125.00	5,125.00	113.19	88.51	51.36	-5,565.54	1,748.73	5,559.37	5,399.65	159.72	34.807		
13,700.00	7,870.00	5,125.00	5,125.00	113.40	88.51	51.36	-5,565.54	1,748.73	5,497.65	5,338.13	159.52	34.463		
13,800.00	7,870.00	5,125.00	5,125.00	113.63	88.51	51.36	-5,565.54	1,748.73	5,437.07	5,277.73	159.33	34.124		
13,900.00	7,870.00	5,125.00	5,125.00	113.89	88.51	51.36	-5,565.54	1,748.73	5,377.66	5,218.51	159.15	33.791		
14,000.00	7,870.00	5,125.00	5,125.00	114.18	88.51	51.36	-5,565.54	1,748.73	5,319.47	5,160.51	158.97	33.463		
14,100.00	7,870.00	5,125.00	5,125.00	114.48	88.51	51.36	-5,565.54	1,748.73	5,262.54	5,103.74	158.80	33.140		
14,200.00	7,870.00	5,125.00	5,125.00	114.82	88.51	51.36	-5,565.54	1,748.73	5,206.91	5,048.27	158.63	32.823		
14,300.00	7,870.00	5,125.00	5,125.00	115.18	88.51	51.36	-5,565.54	1,748.73	5,152.62	4,994.14	158.48	32.512		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - ABND VERT JL SEARS 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,400.00	7,870.00	5,125.00	5,125.00	115.57	88.51	51.36	-5,565.54	1,748.73	5,099.71	4,941.37	158.34	32.208		
14,500.00	7,870.00	5,125.00	5,125.00	115.99	88.51	51.36	-5,565.54	1,748.73	5,048.22	4,890.02	158.21	31.909		
14,600.00	7,870.00	5,125.00	5,125.00	116.44	88.51	51.36	-5,565.54	1,748.73	4,998.21	4,840.12	158.09	31.617		
14,700.00	7,870.00	5,125.00	5,125.00	116.92	88.51	51.36	-5,565.54	1,748.73	4,949.71	4,791.73	157.98	31.331		
14,800.00	7,870.00	5,125.00	5,125.00	117.44	88.51	51.36	-5,565.54	1,748.73	4,902.78	4,744.89	157.89	31.052		
14,900.00	7,870.00	5,125.00	5,125.00	117.98	88.51	51.36	-5,565.54	1,748.73	4,857.45	4,699.63	157.81	30.780		
15,000.00	7,870.00	5,125.00	5,125.00	118.56	88.51	51.36	-5,565.54	1,748.73	4,813.77	4,656.01	157.75	30.515		
15,100.00	7,870.00	5,125.00	5,125.00	119.17	88.51	51.36	-5,565.54	1,748.73	4,771.78	4,614.07	157.71	30.257		
15,200.00	7,870.00	5,125.00	5,125.00	119.81	88.51	51.36	-5,565.54	1,748.73	4,731.54	4,573.85	157.69	30.006		
15,300.00	7,870.00	5,125.00	5,125.00	120.48	88.51	51.36	-5,565.54	1,748.73	4,693.08	4,535.40	157.68	29.763		
15,400.00	7,870.00	5,125.00	5,125.00	121.19	88.51	51.36	-5,565.54	1,748.73	4,656.45	4,498.76	157.70	29.528		
15,500.00	7,870.00	5,125.00	5,125.00	121.93	88.51	51.36	-5,565.54	1,748.73	4,621.70	4,463.96	157.74	29.300		
15,600.00	7,870.00	5,125.00	5,125.00	122.71	88.51	51.36	-5,565.54	1,748.73	4,588.86	4,431.07	157.80	29.081		
15,700.00	7,870.00	5,125.00	5,125.00	123.52	88.51	51.36	-5,565.54	1,748.73	4,557.98	4,400.10	157.88	28.869		
15,800.00	7,870.00	5,125.00	5,125.00	124.36	88.51	51.36	-5,565.54	1,748.73	4,529.10	4,371.11	157.99	28.667		
15,900.00	7,870.00	5,125.00	5,125.00	125.23	88.51	51.36	-5,565.54	1,748.73	4,502.26	4,344.13	158.13	28.473		
16,000.00	7,870.00	5,125.00	5,125.00	126.14	88.51	51.36	-5,565.54	1,748.73	4,477.49	4,319.20	158.29	28.287		
16,100.00	7,870.00	5,125.00	5,125.00	127.07	88.51	51.36	-5,565.54	1,748.73	4,454.82	4,296.35	158.47	28.111		
16,200.00	7,870.00	5,125.00	5,125.00	128.04	88.51	51.36	-5,565.54	1,748.73	4,434.30	4,275.62	158.68	27.944		
16,300.00	7,870.00	5,125.00	5,125.00	129.04	88.51	51.36	-5,565.54	1,748.73	4,415.94	4,257.02	158.92	27.787		
16,400.00	7,870.00	5,125.00	5,125.00	130.06	88.51	51.36	-5,565.54	1,748.73	4,399.79	4,240.60	159.19	27.639		
16,500.00	7,870.00	5,125.00	5,125.00	131.11	88.51	51.36	-5,565.54	1,748.73	4,385.85	4,226.37	159.48	27.501		
16,600.00	7,870.00	5,125.00	5,125.00	132.19	88.51	51.36	-5,565.54	1,748.73	4,374.15	4,214.36	159.80	27.374		
16,700.00	7,870.00	5,125.00	5,125.00	133.29	88.51	51.36	-5,565.54	1,748.73	4,364.72	4,204.58	160.14	27.256		
16,800.00	7,870.00	5,125.00	5,125.00	134.42	88.51	51.36	-5,565.54	1,748.73	4,357.56	4,197.05	160.51	27.149		
16,900.00	7,870.00	5,125.00	5,125.00	135.57	88.51	51.36	-5,565.54	1,748.73	4,352.69	4,191.79	160.90	27.052		
17,000.00	7,870.00	5,125.00	5,125.00	136.75	88.51	51.36	-5,565.54	1,748.73	4,350.11	4,188.79	161.31	26.967		
17,062.23	7,870.00	5,125.00	5,125.00	137.49	88.51	51.36	-5,565.54	1,748.73	4,349.66	4,188.08	161.58	26.919 CC		
17,100.00	7,870.00	5,125.00	5,125.00	137.94	88.51	51.36	-5,565.54	1,748.73	4,349.83	4,188.08	161.75	26.892 ES		
17,200.00	7,870.00	5,125.00	5,125.00	139.16	88.51	51.36	-5,565.54	1,748.73	4,351.84	4,189.63	162.21	26.828		
17,300.00	7,870.00	5,125.00	5,125.00	140.39	88.51	51.36	-5,565.54	1,748.73	4,356.16	4,193.47	162.69	26.776		
17,400.00	7,870.00	5,125.00	5,125.00	141.65	88.51	51.36	-5,565.54	1,748.73	4,362.76	4,199.58	163.18	26.735		
17,500.00	7,870.00	5,125.00	5,125.00	142.92	88.51	51.36	-5,565.54	1,748.73	4,371.64	4,207.94	163.69	26.706		
17,600.00	7,870.00	5,125.00	5,125.00	144.21	88.51	51.36	-5,565.54	1,748.73	4,382.78	4,218.56	164.22	26.689		
17,700.00	7,870.00	5,125.00	5,125.00	145.52	88.51	51.36	-5,565.54	1,748.73	4,396.17	4,231.41	164.76	26.683 SF		
17,800.00	7,870.00	5,125.00	5,125.00	146.84	88.51	51.36	-5,565.54	1,748.73	4,411.79	4,246.48	165.31	26.689		
17,900.00	7,870.00	5,125.00	5,125.00	148.18	88.51	51.36	-5,565.54	1,748.73	4,429.61	4,263.75	165.86	26.707		
18,000.00	7,870.00	5,125.00	5,125.00	149.54	88.51	51.36	-5,565.54	1,748.73	4,449.61	4,283.18	166.43	26.736		
18,100.00	7,870.00	5,125.00	5,125.00	150.90	88.51	51.36	-5,565.54	1,748.73	4,471.75	4,304.75	166.99	26.778		
18,200.00	7,870.00	5,125.00	5,125.00	152.28	88.51	51.36	-5,565.54	1,748.73	4,496.01	4,328.44	167.57	26.831		
18,300.00	7,870.00	5,125.00	5,125.00	153.67	88.51	51.36	-5,565.54	1,748.73	4,522.35	4,354.21	168.14	26.896		
18,400.00	7,870.00	5,125.00	5,125.00	155.07	88.51	51.36	-5,565.54	1,748.73	4,550.74	4,382.02	168.71	26.973		
18,500.00	7,870.00	5,125.00	5,125.00	156.49	88.51	51.36	-5,565.54	1,748.73	4,581.13	4,411.85	169.28	27.062		
18,600.00	7,870.00	5,125.00	5,125.00	157.91	88.51	51.36	-5,565.54	1,748.73	4,613.49	4,443.64	169.85	27.162		
18,700.00	7,870.00	5,125.00	5,125.00	159.35	88.51	51.36	-5,565.54	1,748.73	4,647.78	4,477.37	170.41	27.273		
18,800.00	7,870.00	5,125.00	5,125.00	160.79	88.51	51.36	-5,565.54	1,748.73	4,683.95	4,512.98	170.97	27.396		
18,900.00	7,870.00	5,125.00	5,125.00	162.25	88.51	51.36	-5,565.54	1,748.73	4,721.97	4,550.45	171.52	27.530		
19,000.00	7,870.00	5,125.00	5,125.00	163.71	88.51	51.36	-5,565.54	1,748.73	4,761.78	4,589.72	172.06	27.675		
19,100.00	7,870.00	5,125.00	5,125.00	165.18	88.51	51.36	-5,565.54	1,748.73	4,803.34	4,630.75	172.59	27.831		
19,200.00	7,870.00	5,125.00	5,125.00	166.66	88.51	51.36	-5,565.54	1,748.73	4,846.61	4,673.50	173.11	27.997		
19,300.00	7,870.00	5,125.00	5,125.00	168.15	88.51	51.36	-5,565.54	1,748.73	4,891.54	4,717.92	173.62	28.173		
19,400.00	7,870.00	5,125.00	5,125.00	169.65	88.51	51.36	-5,565.54	1,748.73	4,938.09	4,763.97	174.12	28.360		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,500.00	7,870.00	5,125.00	5,125.00	171.15	88.51	51.36	-5,565.54	1,748.73	4,986.21	4,811.60	174.61	28.557	
19,600.00	7,870.00	5,125.00	5,125.00	172.66	88.51	51.36	-5,565.54	1,748.73	5,035.86	4,860.78	175.08	28.763	
19,700.00	7,870.00	5,125.00	5,125.00	174.18	88.51	51.36	-5,565.54	1,748.73	5,086.99	4,911.44	175.54	28.979	
19,800.00	7,870.00	5,125.00	5,125.00	175.70	88.51	51.36	-5,565.54	1,748.73	5,139.55	4,963.56	175.99	29.204	
19,889.26	7,870.00	5,125.00	5,125.00	177.06	88.51	51.36	-5,565.54	1,748.73	5,187.65	5,011.27	176.38	29.412	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	150.97	-5,536.99	3,072.87	6,332.59					
100.00	100.00	71.00	71.00	0.13	0.58	150.97	-5,536.99	3,072.87	6,332.52	6,331.81	0.71	8,910.911		
200.00	200.00	171.00	171.00	0.49	2.05	150.97	-5,536.99	3,072.87	6,332.52	6,329.98	2.54	2,489.530		
300.00	300.00	271.00	271.00	0.85	3.80	150.97	-5,536.99	3,072.87	6,332.52	6,327.87	4.65	1,362.576		
400.00	399.98	370.98	370.98	1.21	5.54	82.85	-5,536.99	3,072.87	6,332.30	6,325.56	6.75	938.603		
500.00	499.84	470.84	470.84	1.56	7.28	82.91	-5,536.99	3,072.87	6,331.65	6,322.81	8.85	715.810		
600.00	599.45	570.45	570.45	1.93	9.02	83.00	-5,536.99	3,072.87	6,330.58	6,319.63	10.95	578.058		
700.00	698.70	669.70	669.70	2.32	10.75	83.14	-5,536.99	3,072.87	6,329.10	6,316.03	13.07	484.333		
800.00	797.47	768.47	768.47	2.72	12.48	83.32	-5,536.99	3,072.87	6,327.23	6,312.04	15.20	416.324		
900.00	895.62	866.62	866.62	3.16	14.19	83.53	-5,536.99	3,072.87	6,325.01	6,307.66	17.35	364.636		
1,000.00	993.06	964.06	964.06	3.63	15.89	83.78	-5,536.99	3,072.87	6,322.46	6,302.94	19.52	323.960		
1,100.00	1,089.64	1,060.64	1,060.64	4.14	17.58	84.06	-5,536.99	3,072.87	6,319.62	6,297.91	21.71	291.070		
1,200.00	1,185.27	1,156.27	1,156.27	4.70	19.25	84.38	-5,536.99	3,072.87	6,316.54	6,292.61	23.94	263.895		
1,300.00	1,279.82	1,250.82	1,250.82	5.31	20.90	84.72	-5,536.99	3,072.87	6,313.27	6,287.08	26.19	241.045		
1,400.00	1,373.17	1,344.17	1,344.17	5.97	22.53	85.09	-5,536.99	3,072.87	6,309.86	6,281.38	28.48	221.551		
1,500.00	1,465.21	1,436.21	1,436.21	6.69	24.13	85.48	-5,536.99	3,072.87	6,306.38	6,275.57	30.81	204.718		
1,600.00	1,555.84	1,526.84	1,526.84	7.47	25.71	85.90	-5,536.99	3,072.87	6,302.88	6,269.71	33.17	190.036		
1,700.00	1,644.94	1,615.94	1,615.94	8.31	27.27	86.34	-5,536.99	3,072.87	6,299.43	6,263.87	35.57	177.117		
1,800.00	1,732.39	1,703.39	1,703.39	9.23	28.80	86.79	-5,536.99	3,072.87	6,296.11	6,258.11	38.00	165.665		
1,900.00	1,818.11	1,789.11	1,789.11	10.21	30.29	87.25	-5,536.99	3,072.87	6,292.99	6,252.51	40.48	155.451		
2,000.00	1,901.97	1,872.97	1,872.97	11.26	31.76	87.72	-5,536.99	3,072.87	6,290.15	6,247.15	43.00	146.288		
2,100.00	1,983.88	1,954.88	1,954.88	12.38	33.19	88.20	-5,536.99	3,072.87	6,287.67	6,242.12	45.55	138.032		
2,200.00	2,063.74	2,034.74	2,034.74	13.57	34.58	88.68	-5,536.99	3,072.87	6,285.62	6,237.48	48.14	130.560		
2,300.00	2,141.45	2,112.45	2,112.45	14.84	35.94	89.16	-5,536.99	3,072.87	6,284.10	6,233.33	50.77	123.774		
2,327.78	2,162.65	2,133.65	2,133.65	15.21	36.31	89.29	-5,536.99	3,072.87	6,283.78	6,232.27	51.51	122.001		
2,400.00	2,217.51	2,188.51	2,188.51	16.17	37.26	89.61	-5,536.99	3,072.87	6,283.19	6,229.76	53.43	117.607		
2,485.70	2,282.63	2,253.63	2,253.63	17.32	38.40	90.00	-5,536.99	3,072.87	6,282.94	6,227.23	55.71	112.772		
2,500.00	2,293.49	2,264.49	2,264.49	17.51	38.59	90.06	-5,536.99	3,072.87	6,282.95	6,226.85	56.10	112.004		
2,600.00	2,369.47	2,340.47	2,340.47	18.86	39.92	90.51	-5,536.99	3,072.87	6,283.38	6,224.61	58.78	106.905		
2,700.00	2,445.45	2,416.45	2,416.45	20.22	41.24	90.97	-5,536.99	3,072.87	6,284.49	6,223.02	61.46	102.249		
2,800.00	2,521.42	2,507.58	2,492.42	21.59	42.83	91.42	-5,536.99	3,072.87	6,286.26	6,221.85	64.42	97.585		
2,900.00	2,597.40	2,568.40	2,568.40	22.97	43.89	91.87	-5,536.99	3,072.87	6,288.71	6,221.86	66.85	94.073		
3,000.00	2,673.38	2,644.38	2,644.38	24.34	45.22	92.32	-5,536.99	3,072.87	6,291.83	6,222.29	69.55	90.470		
3,100.00	2,749.36	2,720.36	2,720.36	25.73	46.55	92.77	-5,536.99	3,072.87	6,295.62	6,223.38	72.24	87.144		
3,200.00	2,825.33	2,803.67	2,796.33	27.11	48.00	93.21	-5,536.99	3,072.87	6,300.08	6,225.01	75.07	83.923		
3,300.00	2,901.31	2,872.31	2,872.31	28.50	49.20	93.66	-5,536.99	3,072.87	6,305.21	6,227.57	77.64	81.213		
3,400.00	2,977.29	2,948.29	2,948.29	29.90	50.52	94.11	-5,536.99	3,072.87	6,311.00	6,230.67	80.33	78.561		
3,500.00	3,053.27	3,024.27	3,024.27	31.29	51.85	94.56	-5,536.99	3,072.87	6,317.46	6,234.43	83.02	76.091		
3,600.00	3,129.24	3,100.24	3,100.24	32.69	53.18	95.01	-5,536.99	3,072.87	6,324.58	6,238.86	85.71	73.788		
3,700.00	3,205.22	3,176.22	3,176.22	34.08	54.50	95.45	-5,536.99	3,072.87	6,332.35	6,243.96	88.40	71.635		
3,800.00	3,281.20	3,252.20	3,252.20	35.48	55.83	95.90	-5,536.99	3,072.87	6,340.79	6,249.71	91.08	69.619		
3,900.00	3,357.18	3,328.18	3,328.18	36.88	57.15	96.35	-5,536.99	3,072.87	6,349.88	6,256.12	93.75	67.730		
4,000.00	3,433.15	3,404.15	3,404.15	38.29	58.48	96.79	-5,536.99	3,072.87	6,359.62	6,263.20	96.42	65.955		
4,100.00	3,509.13	3,480.13	3,480.13	39.69	59.81	97.23	-5,536.99	3,072.87	6,370.01	6,270.92	99.09	64.287		
4,200.00	3,585.11	3,556.11	3,556.11	41.09	61.13	97.68	-5,536.99	3,072.87	6,381.04	6,279.30	101.75	62.716		
4,300.00	3,661.08	3,632.08	3,632.08	42.50	62.46	98.12	-5,536.99	3,072.87	6,392.72	6,288.33	104.40	61.235		
4,400.00	3,737.06	3,708.06	3,708.06	43.90	63.78	98.56	-5,536.99	3,072.87	6,405.04	6,298.00	107.04	59.838		
4,500.00	3,813.04	3,784.04	3,784.04	45.31	65.11	99.00	-5,536.99	3,072.87	6,417.99	6,308.31	109.68	58.517		
4,600.00	3,889.02	3,860.02	3,860.02	46.71	66.44	99.44	-5,536.99	3,072.87	6,431.57	6,319.27	112.31	57.268		
4,700.00	3,964.99	3,935.99	3,935.99	48.12	67.76	99.88	-5,536.99	3,072.87	6,445.78	6,330.86	114.93	56.086		
4,800.00	4,040.97	4,011.97	4,011.97	49.53	69.09	100.31	-5,536.99	3,072.87	6,460.62	6,343.08	117.54	54.966		
4,900.00	4,116.95	4,087.95	4,087.95	50.94	70.41	100.75	-5,536.99	3,072.87	6,476.07	6,355.93	120.14	53.903		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,192.93	4,163.93	4,163.93	52.35	71.74	101.18	-5,536.99	3,072.87	6,492.13	6,369.40	122.74	52.894		
5,100.00	4,268.90	4,239.90	4,239.90	53.76	73.07	101.62	-5,536.99	3,072.87	6,508.81	6,383.49	125.32	51.936		
5,200.00	4,344.88	4,315.88	4,315.88	55.16	74.39	102.05	-5,536.99	3,072.87	6,526.09	6,398.19	127.90	51.025		
5,300.00	4,420.86	4,408.14	4,391.86	56.57	76.00	102.48	-5,536.99	3,072.87	6,543.97	6,413.22	130.75	50.049		
5,400.00	4,496.84	4,467.84	4,467.84	57.98	77.04	102.91	-5,536.99	3,072.87	6,562.45	6,429.43	133.02	49.333		
5,500.00	4,572.81	4,543.81	4,543.81	59.39	78.37	103.33	-5,536.99	3,072.87	6,581.52	6,445.95	135.57	48.546		
5,600.00	4,648.79	4,619.79	4,619.79	60.81	79.70	103.76	-5,536.99	3,072.87	6,601.17	6,463.06	138.11	47.797		
5,700.00	4,724.77	4,704.23	4,695.77	62.22	81.17	104.18	-5,536.99	3,072.87	6,621.41	6,480.62	140.78	47.033		
5,800.00	4,800.74	4,771.74	4,771.74	63.63	82.35	104.61	-5,536.99	3,072.87	6,642.22	6,499.06	143.15	46.400		
5,900.00	4,876.72	4,847.72	4,847.72	65.04	83.67	105.03	-5,536.99	3,072.87	6,663.59	6,517.94	145.66	45.748		
6,000.00	4,952.70	4,923.70	4,923.70	66.45	85.00	105.45	-5,536.99	3,072.87	6,685.53	6,537.38	148.15	45.126		
6,100.00	5,028.68	5,000.32	4,999.68	67.86	86.34	105.86	-5,536.99	3,072.87	6,708.03	6,557.39	150.65	44.528		
6,200.00	5,104.65	5,075.65	5,075.65	69.27	87.65	106.28	-5,536.99	3,072.87	6,731.09	6,577.98	153.11	43.962		
6,300.00	5,180.63	5,151.63	5,151.63	70.69	88.98	106.69	-5,536.99	3,072.87	6,754.69	6,599.12	155.57	43.418		
6,400.00	5,256.61	5,148.00	5,148.00	72.10	88.92	106.67	-5,536.99	3,072.87	6,779.30	6,622.70	156.59	43.293		
6,500.00	5,332.59	5,148.00	5,148.00	73.51	88.92	106.67	-5,536.99	3,072.87	6,805.29	6,647.64	157.64	43.169		
6,600.00	5,408.56	5,148.00	5,148.00	74.92	88.92	106.67	-5,536.99	3,072.87	6,832.64	6,673.97	158.66	43.063		
6,700.00	5,484.54	5,148.00	5,148.00	76.34	88.92	106.67	-5,536.99	3,072.87	6,861.34	6,701.69	159.65	42.976		
6,800.00	5,560.52	5,148.00	5,148.00	77.75	88.92	106.67	-5,536.99	3,072.87	6,891.38	6,730.76	160.61	42.907		
6,900.00	5,636.50	5,148.00	5,148.00	79.16	88.92	106.67	-5,536.99	3,072.87	6,922.72	6,761.19	161.54	42.856		
7,000.00	5,712.47	5,148.00	5,148.00	80.57	88.92	106.67	-5,536.99	3,072.87	6,955.37	6,792.94	162.43	42.821		
7,100.00	5,788.45	5,148.00	5,148.00	81.99	88.92	106.67	-5,536.99	3,072.87	6,989.29	6,826.00	163.29	42.802		
7,200.00	5,864.43	5,148.00	5,148.00	83.40	88.92	106.67	-5,536.99	3,072.87	7,024.47	6,860.35	164.13	42.799		
7,300.00	5,940.40	5,148.00	5,148.00	84.81	88.92	106.67	-5,536.99	3,072.87	7,060.90	6,895.97	164.93	42.811		
7,400.00	6,016.38	5,148.00	5,148.00	86.23	88.92	106.67	-5,536.99	3,072.87	7,098.54	6,932.84	165.70	42.839		
7,500.00	6,092.36	5,148.00	5,148.00	87.64	88.92	106.67	-5,536.99	3,072.87	7,137.39	6,970.95	166.45	42.881		
7,600.00	6,168.34	5,148.00	5,148.00	89.05	88.92	106.67	-5,536.99	3,072.87	7,177.42	7,010.26	167.16	42.937		
7,700.00	6,244.31	5,148.00	5,148.00	90.47	88.92	106.67	-5,536.99	3,072.87	7,218.62	7,050.77	167.85	43.006		
7,800.00	6,320.29	5,148.00	5,148.00	91.88	88.92	106.67	-5,536.99	3,072.87	7,260.96	7,092.45	168.51	43.089		
7,900.00	6,396.27	5,148.00	5,148.00	93.30	88.92	106.67	-5,536.99	3,072.87	7,304.42	7,135.28	169.14	43.185		
8,000.00	6,472.25	5,148.00	5,148.00	94.71	88.92	106.67	-5,536.99	3,072.87	7,348.99	7,179.24	169.75	43.294		
8,100.00	6,548.22	5,148.00	5,148.00	96.12	88.92	106.67	-5,536.99	3,072.87	7,394.64	7,224.31	170.33	43.414		
8,200.00	6,624.20	5,148.00	5,148.00	97.54	88.92	106.67	-5,536.99	3,072.87	7,441.35	7,270.47	170.88	43.547		
8,300.00	6,700.18	5,148.00	5,148.00	98.95	88.92	106.67	-5,536.99	3,072.87	7,489.11	7,317.70	171.41	43.691		
8,400.00	6,776.16	5,148.00	5,148.00	100.37	88.92	106.67	-5,536.99	3,072.87	7,537.89	7,365.97	171.92	43.846		
8,500.00	6,852.13	5,148.00	5,148.00	101.78	88.92	106.67	-5,536.99	3,072.87	7,587.68	7,415.28	172.40	44.012		
8,600.00	6,928.11	5,148.00	5,148.00	103.20	88.92	106.67	-5,536.99	3,072.87	7,638.45	7,465.59	172.86	44.188		
8,700.00	7,004.09	5,148.00	5,148.00	104.61	88.92	106.67	-5,536.99	3,072.87	7,690.18	7,516.88	173.30	44.375		
8,800.00	7,080.06	5,148.00	5,148.00	106.02	88.92	106.67	-5,536.99	3,072.87	7,742.87	7,569.15	173.72	44.571		
8,900.00	7,156.04	5,148.00	5,148.00	107.44	88.92	106.67	-5,536.99	3,072.87	7,796.48	7,622.36	174.12	44.778		
9,000.00	7,232.02	5,148.00	5,148.00	108.85	88.92	106.67	-5,536.99	3,072.87	7,850.99	7,676.50	174.49	44.993		
9,104.68	7,311.55	5,148.00	5,148.00	110.33	88.92	106.67	-5,536.99	3,072.87	7,909.01	7,734.15	174.87	45.229		
9,150.00	7,346.29	5,148.00	5,148.00	110.97	88.92	101.46	-5,536.99	3,072.87	7,932.92	7,757.90	175.03	45.324		
9,200.00	7,385.15	5,148.00	5,148.00	111.65	88.92	95.38	-5,536.99	3,072.87	7,955.91	7,780.70	175.21	45.409		
9,250.00	7,424.29	5,148.00	5,148.00	112.31	88.92	89.11	-5,536.99	3,072.87	7,975.21	7,799.82	175.39	45.472		
9,300.00	7,463.40	5,148.00	5,148.00	112.93	88.92	82.86	-5,536.99	3,072.87	7,990.69	7,815.13	175.56	45.515		
9,350.00	7,502.19	5,148.00	5,148.00	113.51	88.92	76.81	-5,536.99	3,072.87	8,002.26	7,826.53	175.73	45.537		
9,400.00	7,540.36	5,148.00	5,148.00	114.04	88.92	71.13	-5,536.99	3,072.87	8,009.86	7,833.98	175.88	45.541		
9,450.00	7,577.62	5,148.00	5,148.00	114.53	88.92	65.92	-5,536.99	3,072.87	8,013.43	7,837.41	176.02	45.526		
9,500.00	7,613.70	5,148.00	5,148.00	114.95	88.92	61.24	-5,536.99	3,072.87	8,012.95	7,836.82	176.13	45.494		
9,550.00	7,648.30	5,148.00	5,148.00	115.32	88.92	57.10	-5,536.99	3,072.87	8,008.43	7,832.21	176.22	45.445		
9,600.00	7,681.18	5,148.00	5,148.00	115.63	88.92	53.50	-5,536.99	3,072.87	7,999.89	7,823.61	176.29	45.380		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,650.00	7,712.08	5,148.00	5,148.00	115.88	88.92	50.38	-5,536.99	3,072.87	7,987.39	7,811.07	176.32	45.300		
9,700.00	7,740.76	5,148.00	5,148.00	116.08	88.92	47.70	-5,536.99	3,072.87	7,971.00	7,794.67	176.33	45.204		
9,750.00	7,767.01	5,148.00	5,148.00	116.23	88.92	45.43	-5,536.99	3,072.87	7,950.82	7,774.50	176.32	45.093		
9,800.00	7,790.63	5,148.00	5,148.00	116.33	88.92	43.52	-5,536.99	3,072.87	7,926.98	7,750.70	176.28	44.968		
9,850.00	7,811.44	5,148.00	5,148.00	116.38	88.92	41.93	-5,536.99	3,072.87	7,899.63	7,723.41	176.22	44.828		
9,900.00	7,829.28	5,148.00	5,148.00	116.38	88.92	40.63	-5,536.99	3,072.87	7,868.94	7,692.80	176.14	44.674		
9,950.00	7,844.01	5,148.00	5,148.00	116.35	88.92	39.59	-5,536.99	3,072.87	7,835.11	7,659.06	176.04	44.506		
10,000.00	7,855.52	5,148.00	5,148.00	116.28	88.92	38.78	-5,536.99	3,072.87	7,798.35	7,622.41	175.94	44.325		
10,050.00	7,863.72	5,148.00	5,148.00	116.18	88.92	38.19	-5,536.99	3,072.87	7,758.90	7,583.08	175.82	44.129		
10,100.00	7,868.56	5,148.00	5,148.00	116.06	88.92	37.80	-5,536.99	3,072.87	7,717.03	7,541.33	175.71	43.920		
10,145.94	7,870.00	5,148.00	5,148.00	115.92	88.92	37.59	-5,536.99	3,072.87	7,676.67	7,501.07	175.60	43.717		
10,200.00	7,870.00	5,148.00	5,148.00	115.76	88.92	37.59	-5,536.99	3,072.87	7,628.23	7,452.76	175.48	43.472		
10,300.00	7,870.00	5,148.00	5,148.00	115.46	88.92	37.59	-5,536.99	3,072.87	7,538.84	7,363.60	175.24	43.020		
10,400.00	7,870.00	5,148.00	5,148.00	115.18	88.92	37.59	-5,536.99	3,072.87	7,449.71	7,274.72	174.99	42.571		
10,500.00	7,870.00	5,148.00	5,148.00	114.91	88.92	37.59	-5,536.99	3,072.87	7,360.87	7,186.12	174.74	42.124		
10,600.00	7,870.00	5,148.00	5,148.00	114.65	88.92	37.59	-5,536.99	3,072.87	7,272.31	7,097.83	174.48	41.679		
10,700.00	7,870.00	5,148.00	5,148.00	114.41	88.92	37.59	-5,536.99	3,072.87	7,184.06	7,009.84	174.22	41.236		
10,800.00	7,870.00	5,148.00	5,148.00	114.17	88.92	37.59	-5,536.99	3,072.87	7,096.11	6,922.17	173.94	40.796		
10,900.00	7,870.00	5,148.00	5,148.00	113.95	88.92	37.59	-5,536.99	3,072.87	7,008.49	6,834.83	173.66	40.358		
11,000.00	7,870.00	5,148.00	5,148.00	113.75	88.92	37.59	-5,536.99	3,072.87	6,921.21	6,747.84	173.37	39.923		
11,100.00	7,870.00	5,148.00	5,148.00	113.55	88.92	37.59	-5,536.99	3,072.87	6,834.27	6,661.21	173.06	39.490		
11,200.00	7,870.00	5,148.00	5,148.00	113.37	88.92	37.59	-5,536.99	3,072.87	6,747.70	6,574.95	172.75	39.060		
11,300.00	7,870.00	5,148.00	5,148.00	113.20	88.92	37.59	-5,536.99	3,072.87	6,661.50	6,489.07	172.43	38.633		
11,400.00	7,870.00	5,148.00	5,148.00	113.04	88.92	37.59	-5,536.99	3,072.87	6,575.69	6,403.60	172.10	38.209		
11,500.00	7,870.00	5,148.00	5,148.00	112.89	88.92	37.59	-5,536.99	3,072.87	6,490.29	6,318.54	171.75	37.788		
11,600.00	7,870.00	5,148.00	5,148.00	112.76	88.92	37.59	-5,536.99	3,072.87	6,405.31	6,233.91	171.40	37.371		
11,700.00	7,870.00	5,148.00	5,148.00	112.64	88.92	37.59	-5,536.99	3,072.87	6,320.78	6,149.74	171.03	36.956		
11,800.00	7,870.00	5,148.00	5,148.00	112.53	88.92	37.59	-5,536.99	3,072.87	6,236.69	6,066.04	170.65	36.546		
11,900.00	7,870.00	5,148.00	5,148.00	112.44	88.92	37.59	-5,536.99	3,072.87	6,153.09	5,982.83	170.26	36.139		
12,000.00	7,870.00	5,148.00	5,148.00	112.36	88.92	37.59	-5,536.99	3,072.87	6,069.98	5,900.12	169.86	35.736		
12,100.00	7,870.00	5,148.00	5,148.00	112.29	88.92	37.59	-5,536.99	3,072.87	5,987.39	5,817.95	169.44	35.336		
12,200.00	7,870.00	5,148.00	5,148.00	112.24	88.92	37.59	-5,536.99	3,072.87	5,905.33	5,736.33	169.01	34.941		
12,300.00	7,870.00	5,148.00	5,148.00	112.20	88.92	37.59	-5,536.99	3,072.87	5,823.84	5,655.28	168.56	34.550		
12,400.00	7,870.00	5,148.00	5,148.00	112.17	88.92	37.59	-5,536.99	3,072.87	5,742.93	5,574.83	168.10	34.164		
12,500.00	7,870.00	5,148.00	5,148.00	112.16	88.92	37.59	-5,536.99	3,072.87	5,662.63	5,495.01	167.62	33.783		
12,600.00	7,870.00	5,148.00	5,148.00	112.17	88.92	37.59	-5,536.99	3,072.87	5,582.97	5,415.85	167.13	33.406		
12,700.00	7,870.00	5,148.00	5,148.00	112.19	88.92	37.59	-5,536.99	3,072.87	5,503.97	5,337.36	166.61	33.034		
12,800.00	7,870.00	5,148.00	5,148.00	112.23	88.92	37.59	-5,536.99	3,072.87	5,425.67	5,259.58	166.09	32.668		
12,900.00	7,870.00	5,148.00	5,148.00	112.28	88.92	37.59	-5,536.99	3,072.87	5,348.09	5,182.55	165.54	32.307		
13,000.00	7,870.00	5,148.00	5,148.00	112.36	88.92	37.59	-5,536.99	3,072.87	5,271.26	5,106.28	164.98	31.952		
13,100.00	7,870.00	5,148.00	5,148.00	112.45	88.92	37.59	-5,536.99	3,072.87	5,195.22	5,030.83	164.39	31.603		
13,200.00	7,870.00	5,148.00	5,148.00	112.56	88.92	37.59	-5,536.99	3,072.87	5,120.01	4,956.22	163.79	31.260		
13,300.00	7,870.00	5,148.00	5,148.00	112.68	88.92	37.59	-5,536.99	3,072.87	5,045.66	4,882.49	163.17	30.923		
13,400.00	7,870.00	5,148.00	5,148.00	112.83	88.92	37.59	-5,536.99	3,072.87	4,972.20	4,809.68	162.53	30.593		
13,500.00	7,870.00	5,148.00	5,148.00	113.00	88.92	37.59	-5,536.99	3,072.87	4,899.69	4,737.82	161.86	30.270		
13,600.00	7,870.00	5,148.00	5,148.00	113.19	88.92	37.59	-5,536.99	3,072.87	4,828.16	4,666.98	161.18	29.955		
13,700.00	7,870.00	5,148.00	5,148.00	113.40	88.92	37.59	-5,536.99	3,072.87	4,757.65	4,597.17	160.48	29.647		
13,800.00	7,870.00	5,148.00	5,148.00	113.63	88.92	37.59	-5,536.99	3,072.87	4,688.22	4,528.46	159.75	29.346		
13,900.00	7,870.00	5,148.00	5,148.00	113.89	88.92	37.59	-5,536.99	3,072.87	4,619.91	4,460.90	159.01	29.054		
14,000.00	7,870.00	5,148.00	5,148.00	114.18	88.92	37.59	-5,536.99	3,072.87	4,552.77	4,394.52	158.25	28.770		
14,100.00	7,870.00	5,148.00	5,148.00	114.48	88.92	37.59	-5,536.99	3,072.87	4,486.85	4,329.39	157.46	28.495		
14,200.00	7,870.00	5,148.00	5,148.00	114.82	88.92	37.59	-5,536.99	3,072.87	4,422.22	4,265.56	156.66	28.228		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,300.00	7,870.00	5,148.00	5,148.00	115.18	88.92	37.59	-5,536.99	3,072.87	4,358.92	4,203.08	155.84	27.971		
14,400.00	7,870.00	5,148.00	5,148.00	115.57	88.92	37.59	-5,536.99	3,072.87	4,297.01	4,142.01	155.00	27.723		
14,500.00	7,870.00	5,148.00	5,148.00	115.99	88.92	37.59	-5,536.99	3,072.87	4,236.56	4,082.42	154.14	27.484		
14,600.00	7,870.00	5,148.00	5,148.00	116.44	88.92	37.59	-5,536.99	3,072.87	4,177.63	4,024.36	153.27	27.256		
14,700.00	7,870.00	5,148.00	5,148.00	116.92	88.92	37.59	-5,536.99	3,072.87	4,120.29	3,967.89	152.39	27.037		
14,800.00	7,870.00	5,148.00	5,148.00	117.44	88.92	37.59	-5,536.99	3,072.87	4,064.59	3,913.09	151.50	26.829		
14,900.00	7,870.00	5,148.00	5,148.00	117.98	88.92	37.59	-5,536.99	3,072.87	4,010.62	3,860.02	150.60	26.631		
15,000.00	7,870.00	5,148.00	5,148.00	118.56	88.92	37.59	-5,536.99	3,072.87	3,958.44	3,808.74	149.70	26.443		
15,100.00	7,870.00	5,148.00	5,148.00	119.17	88.92	37.59	-5,536.99	3,072.87	3,908.12	3,759.32	148.79	26.265		
15,200.00	7,870.00	5,148.00	5,148.00	119.81	88.92	37.59	-5,536.99	3,072.87	3,859.73	3,711.84	147.89	26.098		
15,300.00	7,870.00	5,148.00	5,148.00	120.48	88.92	37.59	-5,536.99	3,072.87	3,813.36	3,666.35	147.00	25.941		
15,400.00	7,870.00	5,148.00	5,148.00	121.19	88.92	37.59	-5,536.99	3,072.87	3,769.06	3,622.94	146.12	25.794		
15,500.00	7,870.00	5,148.00	5,148.00	121.93	88.92	37.59	-5,536.99	3,072.87	3,726.93	3,581.67	145.26	25.657		
15,600.00	7,870.00	5,148.00	5,148.00	122.71	88.92	37.59	-5,536.99	3,072.87	3,687.02	3,542.60	144.42	25.529		
15,700.00	7,870.00	5,148.00	5,148.00	123.52	88.92	37.59	-5,536.99	3,072.87	3,649.42	3,505.81	143.62	25.411		
15,800.00	7,870.00	5,148.00	5,148.00	124.36	88.92	37.59	-5,536.99	3,072.87	3,614.20	3,471.35	142.85	25.301		
15,900.00	7,870.00	5,148.00	5,148.00	125.23	88.92	37.59	-5,536.99	3,072.87	3,581.42	3,439.30	142.12	25.200		
16,000.00	7,870.00	5,148.00	5,148.00	126.14	88.92	37.59	-5,536.99	3,072.87	3,551.16	3,409.71	141.45	25.105		
16,100.00	7,870.00	5,148.00	5,148.00	127.07	88.92	37.59	-5,536.99	3,072.87	3,523.48	3,382.64	140.84	25.018		
16,200.00	7,870.00	5,148.00	5,148.00	128.04	88.92	37.59	-5,536.99	3,072.87	3,498.44	3,358.15	140.29	24.937		
16,300.00	7,870.00	5,148.00	5,148.00	129.04	88.92	37.59	-5,536.99	3,072.87	3,476.09	3,336.27	139.82	24.862		
16,400.00	7,870.00	5,148.00	5,148.00	130.06	88.92	37.59	-5,536.99	3,072.87	3,456.50	3,317.07	139.42	24.791		
16,500.00	7,870.00	5,148.00	5,148.00	131.11	88.92	37.59	-5,536.99	3,072.87	3,439.70	3,300.58	139.12	24.725		
16,600.00	7,870.00	5,148.00	5,148.00	132.19	88.92	37.59	-5,536.99	3,072.87	3,425.74	3,286.83	138.90	24.663		
16,700.00	7,870.00	5,148.00	5,148.00	133.29	88.92	37.59	-5,536.99	3,072.87	3,414.65	3,275.86	138.79	24.604		
16,800.00	7,870.00	5,148.00	5,148.00	134.42	88.92	37.59	-5,536.99	3,072.87	3,406.46	3,267.69	138.77	24.548		
16,900.00	7,870.00	5,148.00	5,148.00	135.57	88.92	37.59	-5,536.99	3,072.87	3,401.19	3,262.34	138.85	24.495		
17,000.00	7,870.00	5,148.00	5,148.00	136.75	88.92	37.59	-5,536.99	3,072.87	3,398.86	3,259.83	139.04	24.446		
17,029.24	7,870.00	5,148.00	5,148.00	137.09	88.92	37.59	-5,536.99	3,072.87	3,398.74	3,259.63	139.11	24.432 CC, ES		
17,100.00	7,870.00	5,148.00	5,148.00	137.94	88.92	37.59	-5,536.99	3,072.87	3,399.47	3,260.15	139.33	24.399		
17,200.00	7,870.00	5,148.00	5,148.00	139.16	88.92	37.59	-5,536.99	3,072.87	3,403.02	3,263.31	139.72	24.356		
17,300.00	7,870.00	5,148.00	5,148.00	140.39	88.92	37.59	-5,536.99	3,072.87	3,409.51	3,269.30	140.21	24.318		
17,400.00	7,870.00	5,148.00	5,148.00	141.65	88.92	37.59	-5,536.99	3,072.87	3,418.90	3,278.12	140.79	24.284		
17,500.00	7,870.00	5,148.00	5,148.00	142.92	88.92	37.59	-5,536.99	3,072.87	3,431.19	3,289.73	141.45	24.257		
17,600.00	7,870.00	5,148.00	5,148.00	144.21	88.92	37.59	-5,536.99	3,072.87	3,446.33	3,304.13	142.20	24.235		
17,700.00	7,870.00	5,148.00	5,148.00	145.52	88.92	37.59	-5,536.99	3,072.87	3,464.29	3,321.27	143.03	24.221		
17,800.00	7,870.00	5,148.00	5,148.00	146.84	88.92	37.59	-5,536.99	3,072.87	3,485.04	3,341.12	143.91	24.216 SF		
17,900.00	7,870.00	5,148.00	5,148.00	148.18	88.92	37.59	-5,536.99	3,072.87	3,508.51	3,363.65	144.86	24.220		
18,000.00	7,870.00	5,148.00	5,148.00	149.54	88.92	37.59	-5,536.99	3,072.87	3,534.66	3,388.80	145.86	24.234		
18,100.00	7,870.00	5,148.00	5,148.00	150.90	88.92	37.59	-5,536.99	3,072.87	3,563.42	3,416.52	146.90	24.258		
18,200.00	7,870.00	5,148.00	5,148.00	152.28	88.92	37.59	-5,536.99	3,072.87	3,594.73	3,446.77	147.97	24.294		
18,300.00	7,870.00	5,148.00	5,148.00	153.67	88.92	37.59	-5,536.99	3,072.87	3,628.53	3,479.47	149.06	24.342		
18,400.00	7,870.00	5,148.00	5,148.00	155.07	88.92	37.59	-5,536.99	3,072.87	3,664.75	3,514.57	150.18	24.403		
18,500.00	7,870.00	5,148.00	5,148.00	156.49	88.92	37.59	-5,536.99	3,072.87	3,703.32	3,552.01	151.30	24.476		
18,600.00	7,870.00	5,148.00	5,148.00	157.91	88.92	37.59	-5,536.99	3,072.87	3,744.16	3,591.72	152.43	24.563		
18,700.00	7,870.00	5,148.00	5,148.00	159.35	88.92	37.59	-5,536.99	3,072.87	3,787.20	3,633.64	153.56	24.662		
18,800.00	7,870.00	5,148.00	5,148.00	160.79	88.92	37.59	-5,536.99	3,072.87	3,832.36	3,677.68	154.69	24.775		
18,900.00	7,870.00	5,148.00	5,148.00	162.25	88.92	37.59	-5,536.99	3,072.87	3,879.58	3,723.79	155.80	24.901		
19,000.00	7,870.00	5,148.00	5,148.00	163.71	88.92	37.59	-5,536.99	3,072.87	3,928.78	3,771.88	156.90	25.041		
19,100.00	7,870.00	5,148.00	5,148.00	165.18	88.92	37.59	-5,536.99	3,072.87	3,979.88	3,821.91	157.98	25.193		
19,200.00	7,870.00	5,148.00	5,148.00	166.66	88.92	37.59	-5,536.99	3,072.87	4,032.82	3,873.78	159.04	25.358		
19,300.00	7,870.00	5,148.00	5,148.00	168.15	88.92	37.59	-5,536.99	3,072.87	4,087.51	3,927.44	160.07	25.535		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,400.00	7,870.00	5,148.00	5,148.00	169.65	88.92	37.59	-5,536.99	3,072.87	4,143.90	3,982.82	161.09	25.725	
19,500.00	7,870.00	5,148.00	5,148.00	171.15	88.92	37.59	-5,536.99	3,072.87	4,201.91	4,039.84	162.07	25.926	
19,600.00	7,870.00	5,148.00	5,148.00	172.66	88.92	37.59	-5,536.99	3,072.87	4,261.48	4,098.45	163.03	26.139	
19,700.00	7,870.00	5,148.00	5,148.00	174.18	88.92	37.59	-5,536.99	3,072.87	4,322.54	4,158.58	163.96	26.363	
19,800.00	7,870.00	5,148.00	5,148.00	175.70	88.92	37.59	-5,536.99	3,072.87	4,385.04	4,220.17	164.86	26.598	
19,889.26	7,870.00	5,148.00	5,148.00	177.06	88.92	37.59	-5,536.99	3,072.87	4,441.97	4,276.33	165.64	26.817	

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - ABND VERT MANN 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-IN-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	147.59	-6,842.05	4,344.32	8,104.76					
100.00	100.00	78.00	78.00	0.13	0.65	147.59	-6,842.05	4,344.32	8,104.73	8,103.95	0.78	N/A		
200.00	200.00	178.00	178.00	0.49	2.19	147.59	-6,842.05	4,344.32	8,104.73	8,102.05	2.68	3,020.449		
300.00	300.00	278.00	278.00	0.85	3.94	147.59	-6,842.05	4,344.32	8,104.73	8,099.95	4.79	1,693.040		
400.00	399.98	377.98	377.98	1.21	5.68	79.46	-6,842.05	4,344.32	8,104.41	8,097.53	6.89	1,176.920		
500.00	499.84	477.84	477.84	1.56	7.42	79.51	-6,842.05	4,344.32	8,103.46	8,094.47	8.98	901.890		
600.00	599.45	577.45	577.45	1.93	9.16	79.61	-6,842.05	4,344.32	8,101.87	8,090.78	11.09	730.510		
700.00	698.70	676.70	676.70	2.32	10.89	79.73	-6,842.05	4,344.32	8,099.67	8,086.46	13.21	613.319		
800.00	797.47	775.47	775.47	2.72	12.62	79.90	-6,842.05	4,344.32	8,096.87	8,081.53	15.34	527.983		
900.00	895.62	873.62	873.62	3.16	14.33	80.09	-6,842.05	4,344.32	8,093.50	8,076.01	17.48	462.957		
1,000.00	993.06	971.06	971.06	3.63	16.03	80.32	-6,842.05	4,344.32	8,089.57	8,069.92	19.65	411.679		
1,100.00	1,089.64	1,067.64	1,067.64	4.14	17.72	80.59	-6,842.05	4,344.32	8,085.13	8,063.29	21.84	370.146		
1,200.00	1,185.27	1,163.27	1,163.27	4.70	19.39	80.88	-6,842.05	4,344.32	8,080.22	8,056.15	24.06	335.781		
1,300.00	1,279.82	1,257.82	1,257.82	5.31	21.04	81.20	-6,842.05	4,344.32	8,074.86	8,048.54	26.32	306.848		
1,400.00	1,373.17	1,351.17	1,351.17	5.97	22.67	81.55	-6,842.05	4,344.32	8,069.11	8,040.51	28.60	282.134		
1,500.00	1,465.21	1,443.21	1,443.21	6.69	24.27	81.92	-6,842.05	4,344.32	8,063.03	8,032.11	30.92	260.770		
1,600.00	1,555.84	1,533.84	1,533.84	7.47	25.85	82.32	-6,842.05	4,344.32	8,056.65	8,023.37	33.28	242.112		
1,700.00	1,644.94	1,622.94	1,622.94	8.31	27.41	82.74	-6,842.05	4,344.32	8,050.04	8,014.37	35.67	225.676		
1,800.00	1,732.39	1,710.39	1,710.39	9.23	28.94	83.17	-6,842.05	4,344.32	8,043.26	8,005.15	38.10	211.089		
1,900.00	1,818.11	1,803.89	1,796.11	10.21	30.57	83.62	-6,842.05	4,344.32	8,036.37	7,995.66	40.71	197.399		
2,000.00	1,901.97	1,879.97	1,879.97	11.26	31.90	84.09	-6,842.05	4,344.32	8,029.43	7,986.35	43.09	186.357		
2,100.00	1,983.88	1,961.88	1,961.88	12.38	33.32	84.56	-6,842.05	4,344.32	8,022.53	7,976.89	45.64	175.794		
2,200.00	2,063.74	2,041.74	2,041.74	13.57	34.72	85.04	-6,842.05	4,344.32	8,015.71	7,967.49	48.22	166.219		
2,300.00	2,141.45	2,119.45	2,119.45	14.84	36.08	85.52	-6,842.05	4,344.32	8,009.07	7,958.22	50.85	157.508		
2,327.78	2,162.65	2,140.65	2,140.65	15.21	36.45	85.65	-6,842.05	4,344.32	8,007.26	7,955.67	51.58	155.229		
2,400.00	2,217.51	2,204.49	2,195.51	16.17	37.56	85.91	-6,842.05	4,344.32	8,002.72	7,949.06	53.66	149.139		
2,500.00	2,293.49	2,271.49	2,271.49	17.51	38.73	86.26	-6,842.05	4,344.32	7,996.89	7,940.71	56.18	142.357		
2,600.00	2,369.47	2,347.47	2,347.47	18.86	40.05	86.62	-6,842.05	4,344.32	7,991.58	7,932.72	58.86	135.775		
2,700.00	2,445.45	2,423.45	2,423.45	20.22	41.38	86.97	-6,842.05	4,344.32	7,986.80	7,925.25	61.55	129.755		
2,800.00	2,521.42	2,500.58	2,499.42	21.59	42.73	87.33	-6,842.05	4,344.32	7,982.55	7,918.27	64.27	124.195		
2,900.00	2,597.40	2,575.40	2,575.40	22.97	44.03	87.68	-6,842.05	4,344.32	7,978.82	7,911.86	66.96	119.155		
3,000.00	2,673.38	2,651.38	2,651.38	24.34	45.36	88.03	-6,842.05	4,344.32	7,975.62	7,905.95	69.67	114.471		
3,100.00	2,749.36	2,727.36	2,727.36	25.73	46.69	88.39	-6,842.05	4,344.32	7,972.95	7,900.56	72.39	110.139		
3,200.00	2,825.33	2,803.33	2,803.33	27.11	48.01	88.74	-6,842.05	4,344.32	7,970.82	7,895.71	75.11	106.123		
3,300.00	2,901.31	2,879.31	2,879.31	28.50	49.34	89.10	-6,842.05	4,344.32	7,969.21	7,891.38	77.83	102.392		
3,400.00	2,977.29	2,955.29	2,955.29	29.90	50.66	89.45	-6,842.05	4,344.32	7,968.13	7,887.57	80.55	98.917		
3,500.00	3,053.27	3,031.27	3,031.27	31.29	51.99	89.81	-6,842.05	4,344.32	7,967.58	7,884.30	83.28	95.675		
3,553.48	3,093.90	3,071.90	3,071.90	32.04	52.70	90.00	-6,842.05	4,344.32	7,967.50	7,882.77	84.73	94.029		
3,600.00	3,129.24	3,107.24	3,107.24	32.69	53.32	90.17	-6,842.05	4,344.32	7,967.56	7,881.56	86.00	92.645		
3,700.00	3,205.22	3,183.22	3,183.22	34.08	54.64	90.52	-6,842.05	4,344.32	7,968.07	7,879.35	88.73	89.806		
3,800.00	3,281.20	3,259.20	3,259.20	35.48	55.97	90.88	-6,842.05	4,344.32	7,969.11	7,877.66	91.45	87.143		
3,900.00	3,357.18	3,335.18	3,335.18	36.88	57.29	91.23	-6,842.05	4,344.32	7,970.69	7,876.51	94.17	84.640		
4,000.00	3,433.15	3,411.15	3,411.15	38.29	58.62	91.59	-6,842.05	4,344.32	7,972.79	7,875.90	96.89	82.284		
4,100.00	3,509.13	3,487.13	3,487.13	39.69	59.95	91.94	-6,842.05	4,344.32	7,975.42	7,875.81	99.61	80.064		
4,200.00	3,585.11	3,563.11	3,563.11	41.09	61.27	92.30	-6,842.05	4,344.32	7,978.58	7,876.25	102.33	77.969		
4,300.00	3,661.08	3,639.08	3,639.08	42.50	62.60	92.65	-6,842.05	4,344.32	7,982.27	7,877.23	105.05	75.989		
4,400.00	3,737.06	3,715.06	3,715.06	43.90	63.92	93.00	-6,842.05	4,344.32	7,986.49	7,878.73	107.76	74.115		
4,500.00	3,813.04	3,808.96	3,791.04	45.31	65.56	93.36	-6,842.05	4,344.32	7,991.23	7,880.45	110.78	72.136		
4,600.00	3,889.02	3,867.02	3,867.02	46.71	66.58	93.71	-6,842.05	4,344.32	7,996.50	7,883.33	113.17	70.657		
4,700.00	3,964.99	3,942.99	3,942.99	48.12	67.90	94.07	-6,842.05	4,344.32	8,002.30	7,886.42	115.88	69.059		
4,800.00	4,040.97	4,018.97	4,018.97	49.53	69.23	94.42	-6,842.05	4,344.32	8,008.62	7,890.04	118.57	67.541		
4,900.00	4,116.95	4,105.05	4,094.95	50.94	70.73	94.77	-6,842.05	4,344.32	8,015.46	7,894.01	121.44	66.001		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,192.93	4,170.93	4,170.93	52.35	71.88	95.12	-6,842.05	4,344.32	8,022.82	7,898.86	123.96	64.722		
5,100.00	4,268.90	4,246.90	4,246.90	53.76	73.21	95.48	-6,842.05	4,344.32	8,030.70	7,904.06	126.64	63.412		
5,200.00	4,344.88	4,322.88	4,322.88	55.16	74.53	95.83	-6,842.05	4,344.32	8,039.10	7,909.78	129.32	62.163		
5,300.00	4,420.86	4,401.14	4,398.86	56.57	75.90	96.18	-6,842.05	4,344.32	8,048.02	7,915.98	132.04	60.952		
5,400.00	4,496.84	4,474.84	4,474.84	57.98	77.18	96.53	-6,842.05	4,344.32	8,057.45	7,922.78	134.67	59.832		
5,500.00	4,572.81	4,550.81	4,550.81	59.39	78.51	96.88	-6,842.05	4,344.32	8,067.39	7,930.06	137.33	58.743		
5,600.00	4,648.79	4,626.79	4,626.79	60.81	79.84	97.23	-6,842.05	4,344.32	8,077.85	7,937.86	139.99	57.702		
5,700.00	4,724.77	4,702.77	4,702.77	62.22	81.16	97.58	-6,842.05	4,344.32	8,088.81	7,946.17	142.64	56.706		
5,800.00	4,800.74	4,778.74	4,778.74	63.63	82.49	97.93	-6,842.05	4,344.32	8,100.28	7,954.99	145.29	55.752		
5,900.00	4,876.72	4,854.72	4,854.72	65.04	83.81	98.28	-6,842.05	4,344.32	8,112.26	7,964.33	147.93	54.839		
6,000.00	4,952.70	4,930.70	4,930.70	66.45	85.14	98.63	-6,842.05	4,344.32	8,124.74	7,974.18	150.56	53.962		
6,100.00	5,028.68	5,006.68	5,006.68	67.86	86.47	98.97	-6,842.05	4,344.32	8,137.72	7,984.53	153.19	53.122		
6,200.00	5,104.65	5,050.00	5,050.00	69.27	87.22	99.17	-6,842.05	4,344.32	8,151.26	7,996.03	155.23	52.510		
6,300.00	5,180.63	5,050.00	5,050.00	70.69	87.22	99.17	-6,842.05	4,344.32	8,165.89	8,009.40	156.49	52.181		
6,400.00	5,256.61	5,050.00	5,050.00	72.10	87.22	99.17	-6,842.05	4,344.32	8,181.72	8,023.99	157.73	51.873		
6,500.00	5,332.59	5,050.00	5,050.00	73.51	87.22	99.17	-6,842.05	4,344.32	8,198.73	8,039.79	158.94	51.583		
6,600.00	5,408.56	5,050.00	5,050.00	74.92	87.22	99.17	-6,842.05	4,344.32	8,216.93	8,056.80	160.14	51.312		
6,700.00	5,484.54	5,050.00	5,050.00	76.34	87.22	99.17	-6,842.05	4,344.32	8,236.30	8,075.00	161.31	51.060		
6,800.00	5,560.52	5,050.00	5,050.00	77.75	87.22	99.17	-6,842.05	4,344.32	8,256.84	8,094.39	162.45	50.826		
6,900.00	5,636.50	5,050.00	5,050.00	79.16	87.22	99.17	-6,842.05	4,344.32	8,278.53	8,114.96	163.58	50.609		
7,000.00	5,712.47	5,050.00	5,050.00	80.57	87.22	99.17	-6,842.05	4,344.32	8,301.38	8,136.70	164.68	50.409		
7,100.00	5,788.45	5,050.00	5,050.00	81.99	87.22	99.17	-6,842.05	4,344.32	8,325.36	8,159.60	165.76	50.226		
7,200.00	5,864.43	5,050.00	5,050.00	83.40	87.22	99.17	-6,842.05	4,344.32	8,350.47	8,183.65	166.81	50.058		
7,300.00	5,940.40	5,050.00	5,050.00	84.81	87.22	99.17	-6,842.05	4,344.32	8,376.69	8,208.85	167.85	49.907		
7,400.00	6,016.38	5,050.00	5,050.00	86.23	87.22	99.17	-6,842.05	4,344.32	8,404.03	8,235.17	168.86	49.770		
7,500.00	6,092.36	5,050.00	5,050.00	87.64	87.22	99.17	-6,842.05	4,344.32	8,432.46	8,262.62	169.84	49.649		
7,600.00	6,168.34	5,050.00	5,050.00	89.05	87.22	99.17	-6,842.05	4,344.32	8,461.98	8,291.18	170.81	49.541		
7,700.00	6,244.31	5,050.00	5,050.00	90.47	87.22	99.17	-6,842.05	4,344.32	8,492.58	8,320.83	171.75	49.448		
7,800.00	6,320.29	5,050.00	5,050.00	91.88	87.22	99.17	-6,842.05	4,344.32	8,524.24	8,351.57	172.66	49.369		
7,900.00	6,396.27	5,050.00	5,050.00	93.30	87.22	99.17	-6,842.05	4,344.32	8,556.95	8,383.39	173.56	49.303		
8,000.00	6,472.25	5,050.00	5,050.00	94.71	87.22	99.17	-6,842.05	4,344.32	8,590.70	8,416.27	174.43	49.250		
8,100.00	6,548.22	5,050.00	5,050.00	96.12	87.22	99.17	-6,842.05	4,344.32	8,625.47	8,450.19	175.28	49.210		
8,200.00	6,624.20	5,050.00	5,050.00	97.54	87.22	99.17	-6,842.05	4,344.32	8,661.26	8,485.16	176.10	49.182		
8,300.00	6,700.18	5,050.00	5,050.00	98.95	87.22	99.17	-6,842.05	4,344.32	8,698.06	8,521.15	176.91	49.167		
8,400.00	6,776.16	5,050.00	5,050.00	100.37	87.22	99.17	-6,842.05	4,344.32	8,735.84	8,558.15	177.69	49.163		
8,500.00	6,852.13	5,050.00	5,050.00	101.78	87.22	99.17	-6,842.05	4,344.32	8,774.60	8,596.15	178.45	49.170		
8,600.00	6,928.11	5,050.00	5,050.00	103.20	87.22	99.17	-6,842.05	4,344.32	8,814.33	8,635.13	179.19	49.189		
8,700.00	7,004.09	5,050.00	5,050.00	104.61	87.22	99.17	-6,842.05	4,344.32	8,855.01	8,675.09	179.91	49.218		
8,800.00	7,080.06	5,050.00	5,050.00	106.02	87.22	99.17	-6,842.05	4,344.32	8,896.62	8,716.01	180.61	49.258		
8,900.00	7,156.04	5,050.00	5,050.00	107.44	87.22	99.17	-6,842.05	4,344.32	8,939.16	8,757.87	181.29	49.309		
9,000.00	7,232.02	5,050.00	5,050.00	108.85	87.22	99.17	-6,842.05	4,344.32	8,982.61	8,800.66	181.95	49.369		
9,104.68	7,311.55	5,050.00	5,050.00	110.33	87.22	99.17	-6,842.05	4,344.32	9,029.06	8,846.44	182.62	49.443		
9,150.00	7,346.29	5,050.00	5,050.00	110.97	87.22	94.21	-6,842.05	4,344.32	9,047.86	8,864.96	182.90	49.469		
9,200.00	7,385.15	5,050.00	5,050.00	111.65	87.22	88.35	-6,842.05	4,344.32	9,065.03	8,881.81	183.22	49.477		
9,250.00	7,424.29	5,050.00	5,050.00	112.31	87.22	82.25	-6,842.05	4,344.32	9,078.32	8,894.79	183.53	49.466		
9,300.00	7,463.40	5,050.00	5,050.00	112.93	87.22	76.11	-6,842.05	4,344.32	9,087.66	8,903.83	183.83	49.435		
9,350.00	7,502.19	5,050.00	5,050.00	113.51	87.22	70.12	-6,842.05	4,344.32	9,092.99	8,908.87	184.11	49.388		
9,400.00	7,540.36	5,050.00	5,050.00	114.04	87.22	64.45	-6,842.05	4,344.32	9,094.27	8,909.89	184.38	49.324		
9,450.00	7,577.62	5,050.00	5,050.00	114.53	87.22	59.20	-6,842.05	4,344.32	9,091.50	8,906.88	184.62	49.245		
9,500.00	7,613.70	5,050.00	5,050.00	114.95	87.22	54.44	-6,842.05	4,344.32	9,084.70	8,899.87	184.83	49.152		
9,550.00	7,648.30	5,050.00	5,050.00	115.32	87.22	50.16	-6,842.05	4,344.32	9,073.90	8,888.89	185.01	49.046		
9,600.00	7,681.18	5,050.00	5,050.00	115.63	87.22	46.36	-6,842.05	4,344.32	9,059.18	8,874.02	185.16	48.927		

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

Offset Design SEC 26-T1N-R68W - ABND VERT MANN 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,650.00	7,712.08	5,050.00	5,050.00	115.88	87.22	42.99	-6,842.05	4,344.32	9,040.62	8,855.35	185.27	48.797		
9,700.00	7,740.76	5,050.00	5,050.00	116.08	87.22	39.98	-6,842.05	4,344.32	9,018.35	8,833.00	185.35	48.655		
9,750.00	7,767.01	5,050.00	5,050.00	116.23	87.22	37.29	-6,842.05	4,344.32	8,992.51	8,807.11	185.40	48.503		
9,800.00	7,790.63	5,050.00	5,050.00	116.33	87.22	34.84	-6,842.05	4,344.32	8,963.27	8,777.85	185.42	48.339		
9,850.00	7,811.44	5,050.00	5,050.00	116.38	87.22	32.58	-6,842.05	4,344.32	8,930.81	8,745.40	185.42	48.166		
9,900.00	7,829.28	5,050.00	5,050.00	116.38	87.22	30.41	-6,842.05	4,344.32	8,895.36	8,709.97	185.39	47.983		
9,950.00	7,844.01	5,050.00	5,050.00	116.35	87.22	28.25	-6,842.05	4,344.32	8,857.13	8,671.80	185.33	47.790		
10,000.00	7,855.52	5,050.00	5,050.00	116.28	87.22	25.96	-6,842.05	4,344.32	8,816.40	8,631.14	185.27	47.588		
10,050.00	7,863.72	5,050.00	5,050.00	116.18	87.22	23.34	-6,842.05	4,344.32	8,773.44	8,588.26	185.19	47.377		
10,100.00	7,868.56	5,050.00	5,050.00	116.06	87.22	20.05	-6,842.05	4,344.32	8,728.54	8,543.45	185.10	47.157		
10,145.94	7,870.00	5,050.00	5,050.00	115.92	87.22	15.91	-6,842.05	4,344.32	8,685.86	8,500.85	185.01	46.948		
10,200.00	7,870.00	5,050.00	5,050.00	115.76	87.22	15.91	-6,842.05	4,344.32	8,634.94	8,450.03	184.91	46.698		
10,300.00	7,870.00	5,050.00	5,050.00	115.46	87.22	15.91	-6,842.05	4,344.32	8,540.85	8,356.14	184.72	46.238		
10,400.00	7,870.00	5,050.00	5,050.00	115.18	87.22	15.91	-6,842.05	4,344.32	8,446.90	8,262.39	184.52	45.778		
10,500.00	7,870.00	5,050.00	5,050.00	114.91	87.22	15.91	-6,842.05	4,344.32	8,353.09	8,168.78	184.31	45.320		
10,600.00	7,870.00	5,050.00	5,050.00	114.65	87.22	15.91	-6,842.05	4,344.32	8,259.43	8,075.33	184.10	44.863		
10,700.00	7,870.00	5,050.00	5,050.00	114.41	87.22	15.91	-6,842.05	4,344.32	8,165.92	7,982.03	183.89	44.407		
10,800.00	7,870.00	5,050.00	5,050.00	114.17	87.22	15.91	-6,842.05	4,344.32	8,072.56	7,888.89	183.67	43.952		
10,900.00	7,870.00	5,050.00	5,050.00	113.95	87.22	15.91	-6,842.05	4,344.32	7,979.36	7,795.92	183.44	43.499		
11,000.00	7,870.00	5,050.00	5,050.00	113.75	87.22	15.91	-6,842.05	4,344.32	7,886.33	7,703.13	183.20	43.047		
11,100.00	7,870.00	5,050.00	5,050.00	113.55	87.22	15.91	-6,842.05	4,344.32	7,793.47	7,610.51	182.96	42.597		
11,200.00	7,870.00	5,050.00	5,050.00	113.37	87.22	15.91	-6,842.05	4,344.32	7,700.79	7,518.08	182.71	42.148		
11,300.00	7,870.00	5,050.00	5,050.00	113.20	87.22	15.91	-6,842.05	4,344.32	7,608.30	7,425.85	182.45	41.701		
11,400.00	7,870.00	5,050.00	5,050.00	113.04	87.22	15.91	-6,842.05	4,344.32	7,515.99	7,333.81	182.18	41.255		
11,500.00	7,870.00	5,050.00	5,050.00	112.89	87.22	15.91	-6,842.05	4,344.32	7,423.89	7,241.98	181.91	40.811		
11,600.00	7,870.00	5,050.00	5,050.00	112.76	87.22	15.91	-6,842.05	4,344.32	7,331.99	7,150.37	181.63	40.369		
11,700.00	7,870.00	5,050.00	5,050.00	112.64	87.22	15.91	-6,842.05	4,344.32	7,240.31	7,058.98	181.33	39.928		
11,800.00	7,870.00	5,050.00	5,050.00	112.53	87.22	15.91	-6,842.05	4,344.32	7,148.86	6,967.82	181.03	39.490		
11,900.00	7,870.00	5,050.00	5,050.00	112.44	87.22	15.91	-6,842.05	4,344.32	7,057.63	6,876.91	180.72	39.053		
12,000.00	7,870.00	5,050.00	5,050.00	112.36	87.22	15.91	-6,842.05	4,344.32	6,966.64	6,786.25	180.40	38.619		
12,100.00	7,870.00	5,050.00	5,050.00	112.29	87.22	15.91	-6,842.05	4,344.32	6,875.91	6,695.85	180.06	38.186		
12,200.00	7,870.00	5,050.00	5,050.00	112.24	87.22	15.91	-6,842.05	4,344.32	6,785.43	6,605.72	179.72	37.756		
12,300.00	7,870.00	5,050.00	5,050.00	112.20	87.22	15.91	-6,842.05	4,344.32	6,695.23	6,515.87	179.36	37.329		
12,400.00	7,870.00	5,050.00	5,050.00	112.17	87.22	15.91	-6,842.05	4,344.32	6,605.31	6,426.32	178.99	36.903		
12,500.00	7,870.00	5,050.00	5,050.00	112.16	87.22	15.91	-6,842.05	4,344.32	6,515.68	6,337.08	178.61	36.481		
12,600.00	7,870.00	5,050.00	5,050.00	112.17	87.22	15.91	-6,842.05	4,344.32	6,426.36	6,248.15	178.21	36.061		
12,700.00	7,870.00	5,050.00	5,050.00	112.19	87.22	15.91	-6,842.05	4,344.32	6,337.36	6,159.56	177.80	35.644		
12,800.00	7,870.00	5,050.00	5,050.00	112.23	87.22	15.91	-6,842.05	4,344.32	6,248.69	6,071.32	177.37	35.230		
12,900.00	7,870.00	5,050.00	5,050.00	112.28	87.22	15.91	-6,842.05	4,344.32	6,160.37	5,983.44	176.93	34.818		
13,000.00	7,870.00	5,050.00	5,050.00	112.36	87.22	15.91	-6,842.05	4,344.32	6,072.40	5,895.94	176.47	34.411		
13,100.00	7,870.00	5,050.00	5,050.00	112.45	87.22	15.91	-6,842.05	4,344.32	5,984.82	5,808.83	175.99	34.006		
13,200.00	7,870.00	5,050.00	5,050.00	112.56	87.22	15.91	-6,842.05	4,344.32	5,897.63	5,722.14	175.50	33.605		
13,300.00	7,870.00	5,050.00	5,050.00	112.68	87.22	15.91	-6,842.05	4,344.32	5,810.86	5,635.87	174.98	33.208		
13,400.00	7,870.00	5,050.00	5,050.00	112.83	87.22	15.91	-6,842.05	4,344.32	5,724.52	5,550.07	174.45	32.815		
13,500.00	7,870.00	5,050.00	5,050.00	113.00	87.22	15.91	-6,842.05	4,344.32	5,638.62	5,464.73	173.90	32.425		
13,600.00	7,870.00	5,050.00	5,050.00	113.19	87.22	15.91	-6,842.05	4,344.32	5,553.20	5,379.88	173.32	32.040		
13,700.00	7,870.00	5,050.00	5,050.00	113.40	87.22	15.91	-6,842.05	4,344.32	5,468.28	5,295.56	172.72	31.660		
13,800.00	7,870.00	5,050.00	5,050.00	113.63	87.22	15.91	-6,842.05	4,344.32	5,383.87	5,211.77	172.10	31.284		
13,900.00	7,870.00	5,050.00	5,050.00	113.89	87.22	15.91	-6,842.05	4,344.32	5,300.01	5,128.56	171.45	30.913		
14,000.00	7,870.00	5,050.00	5,050.00	114.18	87.22	15.91	-6,842.05	4,344.32	5,216.71	5,045.94	170.77	30.548		
14,100.00	7,870.00	5,050.00	5,050.00	114.48	87.22	15.91	-6,842.05	4,344.32	5,134.01	4,963.94	170.07	30.188		
14,200.00	7,870.00	5,050.00	5,050.00	114.82	87.22	15.91	-6,842.05	4,344.32	5,051.94	4,882.60	169.34	29.834		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - ABND VERT MANN 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,300.00	7,870.00	5,050.00	5,050.00	115.18	87.22	15.91	-6,842.05	4,344.32	4,970.52	4,801.94	168.58	29.485		
14,400.00	7,870.00	5,050.00	5,050.00	115.57	87.22	15.91	-6,842.05	4,344.32	4,889.79	4,722.01	167.78	29.144		
14,500.00	7,870.00	5,050.00	5,050.00	115.99	87.22	15.91	-6,842.05	4,344.32	4,809.79	4,642.83	166.96	28.809		
14,600.00	7,870.00	5,050.00	5,050.00	116.44	87.22	15.91	-6,842.05	4,344.32	4,730.54	4,564.45	166.10	28.481		
14,700.00	7,870.00	5,050.00	5,050.00	116.92	87.22	15.91	-6,842.05	4,344.32	4,652.10	4,486.90	165.20	28.161		
14,800.00	7,870.00	5,050.00	5,050.00	117.44	87.22	15.91	-6,842.05	4,344.32	4,574.50	4,410.23	164.27	27.848		
14,900.00	7,870.00	5,050.00	5,050.00	117.98	87.22	15.91	-6,842.05	4,344.32	4,497.78	4,334.49	163.29	27.544		
15,000.00	7,870.00	5,050.00	5,050.00	118.56	87.22	15.91	-6,842.05	4,344.32	4,421.99	4,259.71	162.28	27.249		
15,100.00	7,870.00	5,050.00	5,050.00	119.17	87.22	15.91	-6,842.05	4,344.32	4,347.19	4,185.96	161.23	26.963		
15,200.00	7,870.00	5,050.00	5,050.00	119.81	87.22	15.91	-6,842.05	4,344.32	4,273.41	4,113.28	160.13	26.687		
15,300.00	7,870.00	5,050.00	5,050.00	120.48	87.22	15.91	-6,842.05	4,344.32	4,200.72	4,041.72	158.99	26.421		
15,400.00	7,870.00	5,050.00	5,050.00	121.19	87.22	15.91	-6,842.05	4,344.32	4,129.17	3,971.36	157.81	26.166		
15,500.00	7,870.00	5,050.00	5,050.00	121.93	87.22	15.91	-6,842.05	4,344.32	4,058.82	3,902.24	156.58	25.922		
15,600.00	7,870.00	5,050.00	5,050.00	122.71	87.22	15.91	-6,842.05	4,344.32	3,989.74	3,834.44	155.30	25.691		
15,700.00	7,870.00	5,050.00	5,050.00	123.52	87.22	15.91	-6,842.05	4,344.32	3,921.99	3,768.02	153.97	25.472		
15,800.00	7,870.00	5,050.00	5,050.00	124.36	87.22	15.91	-6,842.05	4,344.32	3,855.65	3,703.05	152.60	25.266		
15,900.00	7,870.00	5,050.00	5,050.00	125.23	87.22	15.91	-6,842.05	4,344.32	3,790.78	3,639.60	151.18	25.075		
16,000.00	7,870.00	5,050.00	5,050.00	126.14	87.22	15.91	-6,842.05	4,344.32	3,727.46	3,577.75	149.71	24.898		
16,100.00	7,870.00	5,050.00	5,050.00	127.07	87.22	15.91	-6,842.05	4,344.32	3,665.79	3,517.59	148.19	24.736		
16,200.00	7,870.00	5,050.00	5,050.00	128.04	87.22	15.91	-6,842.05	4,344.32	3,605.83	3,459.19	146.63	24.591		
16,300.00	7,870.00	5,050.00	5,050.00	129.04	87.22	15.91	-6,842.05	4,344.32	3,547.67	3,402.64	145.03	24.461		
16,400.00	7,870.00	5,050.00	5,050.00	130.06	87.22	15.91	-6,842.05	4,344.32	3,491.41	3,348.03	143.39	24.349		
16,500.00	7,870.00	5,050.00	5,050.00	131.11	87.22	15.91	-6,842.05	4,344.32	3,437.15	3,295.44	141.71	24.255		
16,600.00	7,870.00	5,050.00	5,050.00	132.19	87.22	15.91	-6,842.05	4,344.32	3,384.96	3,244.96	140.00	24.178		
16,700.00	7,870.00	5,050.00	5,050.00	133.29	87.22	15.91	-6,842.05	4,344.32	3,334.96	3,196.69	138.27	24.120		
16,800.00	7,870.00	5,050.00	5,050.00	134.42	87.22	15.91	-6,842.05	4,344.32	3,287.24	3,150.73	136.52	24.080		
16,900.00	7,870.00	5,050.00	5,050.00	135.57	87.22	15.91	-6,842.05	4,344.32	3,241.91	3,107.15	134.76	24.058		
17,000.00	7,870.00	5,050.00	5,050.00	136.75	87.22	15.91	-6,842.05	4,344.32	3,199.06	3,066.06	133.00	24.053		
17,100.00	7,870.00	5,050.00	5,050.00	137.94	87.22	15.91	-6,842.05	4,344.32	3,158.79	3,027.53	131.26	24.065		
17,200.00	7,870.00	5,050.00	5,050.00	139.16	87.22	15.91	-6,842.05	4,344.32	3,121.21	2,991.66	129.55	24.093		
17,300.00	7,870.00	5,050.00	5,050.00	140.39	87.22	15.91	-6,842.05	4,344.32	3,086.41	2,958.53	127.89	24.134		
17,400.00	7,870.00	5,050.00	5,050.00	141.65	87.22	15.91	-6,842.05	4,344.32	3,054.50	2,928.20	126.29	24.186		
17,500.00	7,870.00	5,050.00	5,050.00	142.92	87.22	15.91	-6,842.05	4,344.32	3,025.55	2,900.76	124.79	24.245		
17,600.00	7,870.00	5,050.00	5,050.00	144.21	87.22	15.91	-6,842.05	4,344.32	2,999.66	2,876.25	123.41	24.306		
17,700.00	7,870.00	5,050.00	5,050.00	145.52	87.22	15.91	-6,842.05	4,344.32	2,976.90	2,854.73	122.17	24.366		
17,800.00	7,870.00	5,050.00	5,050.00	146.84	87.22	15.91	-6,842.05	4,344.32	2,957.35	2,836.23	121.12	24.417		
17,900.00	7,870.00	5,050.00	5,050.00	148.18	87.22	15.91	-6,842.05	4,344.32	2,941.08	2,820.80	120.28	24.453		
18,000.00	7,870.00	5,050.00	5,050.00	149.54	87.22	15.91	-6,842.05	4,344.32	2,928.13	2,808.45	119.68	24.466		
18,100.00	7,870.00	5,050.00	5,050.00	150.90	87.22	15.91	-6,842.05	4,344.32	2,918.55	2,799.19	119.36	24.451		
18,200.00	7,870.00	5,050.00	5,050.00	152.28	87.22	15.91	-6,842.05	4,344.32	2,912.37	2,793.03	119.35	24.403		
18,300.00	7,870.00	5,050.00	5,050.00	153.67	87.22	15.91	-6,842.05	4,344.32	2,909.62	2,789.97	119.65	24.318		
18,330.02	7,870.00	5,050.00	5,050.00	154.09	87.22	15.91	-6,842.05	4,344.32	2,909.47	2,789.66	119.81	24.285 CC, ES		
18,400.00	7,870.00	5,050.00	5,050.00	155.07	87.22	15.91	-6,842.05	4,344.32	2,910.31	2,790.03	120.28	24.196		
18,500.00	7,870.00	5,050.00	5,050.00	156.49	87.22	15.91	-6,842.05	4,344.32	2,914.43	2,793.20	121.23	24.040		
18,600.00	7,870.00	5,050.00	5,050.00	157.91	87.22	15.91	-6,842.05	4,344.32	2,921.97	2,799.49	122.48	23.857		
18,700.00	7,870.00	5,050.00	5,050.00	159.35	87.22	15.91	-6,842.05	4,344.32	2,932.90	2,808.90	124.00	23.653		
18,800.00	7,870.00	5,050.00	5,050.00	160.79	87.22	15.91	-6,842.05	4,344.32	2,947.18	2,821.43	125.75	23.437		
18,900.00	7,870.00	5,050.00	5,050.00	162.25	87.22	15.91	-6,842.05	4,344.32	2,964.78	2,837.08	127.70	23.218		
19,000.00	7,870.00	5,050.00	5,050.00	163.71	87.22	15.91	-6,842.05	4,344.32	2,985.61	2,855.82	129.80	23.003		
19,100.00	7,870.00	5,050.00	5,050.00	165.18	87.22	15.91	-6,842.05	4,344.32	3,009.63	2,877.62	132.01	22.798		
19,200.00	7,870.00	5,050.00	5,050.00	166.66	87.22	15.91	-6,842.05	4,344.32	3,036.76	2,902.45	134.31	22.611		
19,300.00	7,870.00	5,050.00	5,050.00	168.15	87.22	15.91	-6,842.05	4,344.32	3,066.90	2,930.25	136.65	22.443		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,400.00	7,870.00	5,050.00	5,050.00	169.65	87.22	15.91	-6,842.05	4,344.32	3,099.98	2,960.96	139.02	22.299	
19,500.00	7,870.00	5,050.00	5,050.00	171.15	87.22	15.91	-6,842.05	4,344.32	3,135.90	2,994.51	141.39	22.179	
19,600.00	7,870.00	5,050.00	5,050.00	172.66	87.22	15.91	-6,842.05	4,344.32	3,174.57	3,030.83	143.74	22.085	
19,700.00	7,870.00	5,050.00	5,050.00	174.18	87.22	15.91	-6,842.05	4,344.32	3,215.88	3,069.82	146.06	22.018	
19,800.00	7,870.00	5,050.00	5,050.00	175.70	87.22	15.91	-6,842.05	4,344.32	3,259.73	3,111.41	148.32	21.977	
19,889.26	7,870.00	5,050.00	5,050.00	177.06	87.22	15.91	-6,842.05	4,344.32	3,300.94	3,150.64	150.30	21.962 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	152.10	-8,182.26	4,332.23	9,258.43					
100.00	100.00	69.00	69.00	0.13	0.57	152.10	-8,182.26	4,332.23	9,258.38	9,257.67	0.71	N/A		
200.00	200.00	169.00	169.00	0.49	2.03	152.10	-8,182.26	4,332.23	9,258.38	9,255.86	2.53	3,664.932		
300.00	300.00	269.00	269.00	0.85	3.78	152.10	-8,182.26	4,332.23	9,258.38	9,253.75	4.63	1,999.646		
400.00	399.98	368.98	368.98	1.21	5.52	83.97	-8,182.26	4,332.23	9,258.20	9,251.47	6.73	1,375.850		
500.00	499.84	468.84	468.84	1.56	7.27	84.01	-8,182.26	4,332.23	9,257.65	9,248.82	8.83	1,048.666		
600.00	599.45	568.45	568.45	1.93	9.01	84.08	-8,182.26	4,332.23	9,256.74	9,245.81	10.93	846.591		
700.00	698.70	667.70	667.70	2.32	10.74	84.18	-8,182.26	4,332.23	9,255.49	9,242.44	13.05	709.207		
800.00	797.47	766.47	766.47	2.72	12.46	84.31	-8,182.26	4,332.23	9,253.90	9,238.72	15.18	609.575		
900.00	895.62	864.62	864.62	3.16	14.17	84.46	-8,182.26	4,332.23	9,252.00	9,234.67	17.33	533.890		
1,000.00	993.06	962.06	962.06	3.63	15.87	84.64	-8,182.26	4,332.23	9,249.81	9,230.31	19.50	474.353		
1,100.00	1,089.64	1,058.64	1,058.64	4.14	17.56	84.85	-8,182.26	4,332.23	9,247.35	9,225.66	21.70	426.229		
1,200.00	1,185.27	1,154.27	1,154.27	4.70	19.23	85.07	-8,182.26	4,332.23	9,244.67	9,220.75	23.92	386.480		
1,300.00	1,279.82	1,248.82	1,248.82	5.31	20.88	85.32	-8,182.26	4,332.23	9,241.78	9,215.61	26.18	353.065		
1,400.00	1,373.17	1,342.17	1,342.17	5.97	22.51	85.59	-8,182.26	4,332.23	9,238.74	9,210.28	28.47	324.564		
1,500.00	1,465.21	1,434.21	1,434.21	6.69	24.12	85.87	-8,182.26	4,332.23	9,235.58	9,204.79	30.79	299.957		
1,600.00	1,555.84	1,524.84	1,524.84	7.47	25.70	86.17	-8,182.26	4,332.23	9,232.35	9,199.20	33.15	278.493		
1,700.00	1,644.94	1,613.94	1,613.94	8.31	27.25	86.49	-8,182.26	4,332.23	9,229.09	9,193.54	35.55	259.607		
1,800.00	1,732.39	1,701.39	1,701.39	9.23	28.78	86.82	-8,182.26	4,332.23	9,225.86	9,187.87	37.99	242.864		
1,900.00	1,818.11	1,787.11	1,787.11	10.21	30.27	87.15	-8,182.26	4,332.23	9,222.70	9,182.24	40.46	227.924		
2,000.00	1,901.97	1,870.97	1,870.97	11.26	31.74	87.50	-8,182.26	4,332.23	9,219.68	9,176.70	42.98	214.517		
2,100.00	1,983.88	1,952.88	1,952.88	12.38	33.17	87.85	-8,182.26	4,332.23	9,216.84	9,171.30	45.53	202.428		
2,200.00	2,063.74	2,032.74	2,032.74	13.57	34.56	88.20	-8,182.26	4,332.23	9,214.24	9,166.12	48.12	191.478		
2,300.00	2,141.45	2,110.45	2,110.45	14.84	35.92	88.55	-8,182.26	4,332.23	9,211.94	9,161.19	50.75	181.524		
2,327.78	2,162.65	2,131.65	2,131.65	15.21	36.29	88.64	-8,182.26	4,332.23	9,211.36	9,159.88	51.48	178.922		
2,400.00	2,217.51	2,186.51	2,186.51	16.17	37.25	88.87	-8,182.26	4,332.23	9,210.02	9,156.62	53.40	172.467		
2,500.00	2,293.49	2,262.49	2,262.49	17.51	38.57	89.17	-8,182.26	4,332.23	9,208.56	9,152.49	56.07	164.226		
2,600.00	2,369.47	2,338.47	2,338.47	18.86	39.90	89.48	-8,182.26	4,332.23	9,207.55	9,148.80	58.75	156.714		
2,700.00	2,445.45	2,414.45	2,414.45	20.22	41.22	89.79	-8,182.26	4,332.23	9,207.01	9,145.56	61.44	149.845		
2,768.91	2,497.80	2,466.80	2,466.80	21.17	42.14	90.00	-8,182.26	4,332.23	9,206.90	9,143.60	63.30	145.445		
2,800.00	2,521.42	2,509.58	2,490.42	21.59	42.88	90.10	-8,182.26	4,332.23	9,206.92	9,142.45	64.47	142.800		
2,900.00	2,597.40	2,566.40	2,566.40	22.97	43.88	90.40	-8,182.26	4,332.23	9,207.29	9,140.45	66.84	137.749		
3,000.00	2,673.38	2,642.38	2,642.38	24.34	45.20	90.71	-8,182.26	4,332.23	9,208.12	9,138.58	69.55	132.403		
3,100.00	2,749.36	2,718.36	2,718.36	25.73	46.53	91.02	-8,182.26	4,332.23	9,209.41	9,137.16	72.25	127.459		
3,200.00	2,825.33	2,805.67	2,794.33	27.11	48.05	91.33	-8,182.26	4,332.23	9,211.16	9,136.00	75.16	122.551		
3,300.00	2,901.31	2,870.31	2,870.31	28.50	49.18	91.63	-8,182.26	4,332.23	9,213.37	9,135.70	77.68	118.614		
3,400.00	2,977.29	2,946.29	2,946.29	29.90	50.51	91.94	-8,182.26	4,332.23	9,216.04	9,135.65	80.39	114.645		
3,500.00	3,053.27	3,022.27	3,022.27	31.29	51.83	92.25	-8,182.26	4,332.23	9,219.16	9,136.06	83.10	110.941		
3,600.00	3,129.24	3,101.76	3,098.24	32.69	53.22	92.55	-8,182.26	4,332.23	9,222.74	9,136.87	85.87	107.399		
3,700.00	3,205.22	3,174.22	3,174.22	34.08	54.48	92.86	-8,182.26	4,332.23	9,226.78	9,138.26	88.52	104.230		
3,800.00	3,281.20	3,250.20	3,250.20	35.48	55.81	93.17	-8,182.26	4,332.23	9,231.27	9,140.04	91.23	101.182		
3,900.00	3,357.18	3,326.18	3,326.18	36.88	57.14	93.47	-8,182.26	4,332.23	9,236.22	9,142.28	93.94	98.317		
4,000.00	3,433.15	3,402.15	3,402.15	38.29	58.46	93.78	-8,182.26	4,332.23	9,241.63	9,144.98	96.65	95.618		
4,100.00	3,509.13	3,478.13	3,478.13	39.69	59.79	94.09	-8,182.26	4,332.23	9,247.49	9,148.13	99.36	93.073		
4,200.00	3,585.11	3,554.11	3,554.11	41.09	61.11	94.39	-8,182.26	4,332.23	9,253.80	9,151.74	102.06	90.670		
4,300.00	3,661.08	3,630.08	3,630.08	42.50	62.44	94.70	-8,182.26	4,332.23	9,260.56	9,155.80	104.76	88.397		
4,400.00	3,737.06	3,706.06	3,706.06	43.90	63.77	95.00	-8,182.26	4,332.23	9,267.78	9,160.32	107.46	86.244		
4,500.00	3,813.04	3,782.04	3,782.04	45.31	65.09	95.31	-8,182.26	4,332.23	9,275.44	9,165.29	110.15	84.204		
4,600.00	3,889.02	3,858.02	3,858.02	46.71	66.42	95.61	-8,182.26	4,332.23	9,283.56	9,170.71	112.85	82.267		
4,700.00	3,964.99	3,933.99	3,933.99	48.12	67.74	95.92	-8,182.26	4,332.23	9,292.12	9,176.58	115.54	80.426		
4,800.00	4,040.97	4,009.97	4,009.97	49.53	69.07	96.22	-8,182.26	4,332.23	9,301.13	9,182.91	118.22	78.676		
4,900.00	4,116.95	4,085.95	4,085.95	50.94	70.40	96.52	-8,182.26	4,332.23	9,310.58	9,189.68	120.90	77.010		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - ABND VERT MANN 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,192.93	4,161.93	4,161.93	52.35	71.72	96.83	-8,182.26	4,332.23	9,320.48	9,196.90	123.58	75.421		
5,100.00	4,268.90	4,237.90	4,237.90	53.76	73.05	97.13	-8,182.26	4,332.23	9,330.82	9,204.57	126.25	73.907		
5,200.00	4,344.88	4,313.88	4,313.88	55.16	74.38	97.43	-8,182.26	4,332.23	9,341.60	9,212.68	128.92	72.460		
5,300.00	4,420.86	4,389.86	4,389.86	56.57	75.70	97.73	-8,182.26	4,332.23	9,352.82	9,221.24	131.58	71.079		
5,400.00	4,496.84	4,465.84	4,465.84	57.98	77.03	98.04	-8,182.26	4,332.23	9,364.48	9,230.24	134.24	69.758		
5,500.00	4,572.81	4,541.81	4,541.81	59.39	78.35	98.34	-8,182.26	4,332.23	9,376.58	9,239.68	136.90	68.493		
5,600.00	4,648.79	4,617.79	4,617.79	60.81	79.68	98.64	-8,182.26	4,332.23	9,389.11	9,249.56	139.55	67.283		
5,700.00	4,724.77	4,706.23	4,693.77	62.22	81.22	98.94	-8,182.26	4,332.23	9,402.07	9,259.66	142.41	66.022		
5,800.00	4,800.74	4,769.74	4,769.74	63.63	82.33	99.24	-8,182.26	4,332.23	9,415.46	9,270.63	144.83	65.011		
5,900.00	4,876.72	4,845.72	4,845.72	65.04	83.66	99.54	-8,182.26	4,332.23	9,429.29	9,281.82	147.46	63.943		
6,000.00	4,952.70	4,921.70	4,921.70	66.45	84.98	99.84	-8,182.26	4,332.23	9,443.54	9,293.45	150.09	62.919		
6,100.00	5,028.68	5,002.32	4,997.68	67.86	86.39	100.13	-8,182.26	4,332.23	9,458.21	9,305.42	152.79	61.902		
6,200.00	5,104.65	5,048.00	5,048.00	69.27	87.19	100.33	-8,182.26	4,332.23	9,473.35	9,318.47	154.88	61.167		
6,300.00	5,180.63	5,048.00	5,048.00	70.69	87.19	100.33	-8,182.26	4,332.23	9,489.38	9,333.24	156.14	60.776		
6,400.00	5,256.61	5,048.00	5,048.00	72.10	87.19	100.33	-8,182.26	4,332.23	9,506.44	9,349.05	157.38	60.404		
6,500.00	5,332.59	5,048.00	5,048.00	73.51	87.19	100.33	-8,182.26	4,332.23	9,524.51	9,365.90	158.61	60.050		
6,600.00	5,408.56	5,048.00	5,048.00	74.92	87.19	100.33	-8,182.26	4,332.23	9,543.60	9,383.78	159.82	59.715		
6,700.00	5,484.54	5,048.00	5,048.00	76.34	87.19	100.33	-8,182.26	4,332.23	9,563.70	9,402.68	161.01	59.397		
6,800.00	5,560.52	5,048.00	5,048.00	77.75	87.19	100.33	-8,182.26	4,332.23	9,584.80	9,422.61	162.19	59.097		
6,900.00	5,636.50	5,048.00	5,048.00	79.16	87.19	100.33	-8,182.26	4,332.23	9,606.89	9,443.54	163.35	58.813		
7,000.00	5,712.47	5,048.00	5,048.00	80.57	87.19	100.33	-8,182.26	4,332.23	9,629.97	9,465.48	164.48	58.546		
7,100.00	5,788.45	5,048.00	5,048.00	81.99	87.19	100.33	-8,182.26	4,332.23	9,654.03	9,488.42	165.61	58.295		
7,200.00	5,864.43	5,048.00	5,048.00	83.40	87.19	100.33	-8,182.26	4,332.23	9,679.06	9,512.35	166.71	58.060		
7,300.00	5,940.40	5,048.00	5,048.00	84.81	87.19	100.33	-8,182.26	4,332.23	9,705.06	9,537.27	167.79	57.839		
7,400.00	6,016.38	5,048.00	5,048.00	86.23	87.19	100.33	-8,182.26	4,332.23	9,732.02	9,563.16	168.86	57.633		
7,500.00	6,092.36	5,048.00	5,048.00	87.64	87.19	100.33	-8,182.26	4,332.23	9,759.93	9,590.02	169.91	57.442		
7,600.00	6,168.34	5,048.00	5,048.00	89.05	87.19	100.33	-8,182.26	4,332.23	9,788.78	9,617.84	170.94	57.265		
7,700.00	6,244.31	5,048.00	5,048.00	90.47	87.19	100.33	-8,182.26	4,332.23	9,818.57	9,646.62	171.95	57.101		
7,800.00	6,320.29	5,048.00	5,048.00	91.88	87.19	100.33	-8,182.26	4,332.23	9,849.28	9,676.33	172.94	56.951		
7,900.00	6,396.27	5,048.00	5,048.00	93.30	87.19	100.33	-8,182.26	4,332.23	9,880.90	9,706.98	173.92	56.813		
8,000.00	6,472.25	5,048.00	5,048.00	94.71	87.19	100.33	-8,182.26	4,332.23	9,913.44	9,738.56	174.88	56.689		
8,100.00	6,548.22	5,048.00	5,048.00	96.12	87.19	100.33	-8,182.26	4,332.23	9,946.87	9,771.06	175.81	56.576		
8,200.00	6,624.20	5,048.00	5,048.00	97.54	87.19	100.33	-8,182.26	4,332.23	9,981.19	9,804.46	176.73	56.476		
10,145.94	7,870.00	5,048.00	5,048.00	115.92	87.19	16.09	-8,182.26	4,332.23	9,957.45	9,769.39	188.06	52.948		
10,200.00	7,870.00	5,048.00	5,048.00	115.76	87.19	16.09	-8,182.26	4,332.23	9,905.76	9,717.76	188.00	52.690		
10,300.00	7,870.00	5,048.00	5,048.00	115.46	87.19	16.09	-8,182.26	4,332.23	9,810.20	9,622.31	187.88	52.214		
10,400.00	7,870.00	5,048.00	5,048.00	115.18	87.19	16.09	-8,182.26	4,332.23	9,714.73	9,526.96	187.77	51.738		
10,500.00	7,870.00	5,048.00	5,048.00	114.91	87.19	16.09	-8,182.26	4,332.23	9,619.35	9,431.70	187.65	51.263		
10,600.00	7,870.00	5,048.00	5,048.00	114.65	87.19	16.09	-8,182.26	4,332.23	9,524.06	9,336.54	187.52	50.788		
10,700.00	7,870.00	5,048.00	5,048.00	114.41	87.19	16.09	-8,182.26	4,332.23	9,428.88	9,241.48	187.40	50.314		
10,800.00	7,870.00	5,048.00	5,048.00	114.17	87.19	16.09	-8,182.26	4,332.23	9,333.79	9,146.52	187.27	49.841		
10,900.00	7,870.00	5,048.00	5,048.00	113.95	87.19	16.09	-8,182.26	4,332.23	9,238.81	9,051.67	187.14	49.369		
11,000.00	7,870.00	5,048.00	5,048.00	113.75	87.19	16.09	-8,182.26	4,332.23	9,143.94	8,956.93	187.00	48.897		
11,100.00	7,870.00	5,048.00	5,048.00	113.55	87.19	16.09	-8,182.26	4,332.23	9,049.17	8,862.31	186.87	48.426		
11,200.00	7,870.00	5,048.00	5,048.00	113.37	87.19	16.09	-8,182.26	4,332.23	8,954.52	8,767.80	186.72	47.956		
11,300.00	7,870.00	5,048.00	5,048.00	113.20	87.19	16.09	-8,182.26	4,332.23	8,859.99	8,673.41	186.58	47.487		
11,400.00	7,870.00	5,048.00	5,048.00	113.04	87.19	16.09	-8,182.26	4,332.23	8,765.58	8,579.15	186.43	47.019		
11,500.00	7,870.00	5,048.00	5,048.00	112.89	87.19	16.09	-8,182.26	4,332.23	8,671.29	8,485.02	186.27	46.551		
11,600.00	7,870.00	5,048.00	5,048.00	112.76	87.19	16.09	-8,182.26	4,332.23	8,577.14	8,391.02	186.12	46.085		
11,700.00	7,870.00	5,048.00	5,048.00	112.64	87.19	16.09	-8,182.26	4,332.23	8,483.11	8,297.16	185.96	45.619		
11,800.00	7,870.00	5,048.00	5,048.00	112.53	87.19	16.09	-8,182.26	4,332.23	8,389.23	8,203.44	185.79	45.155		
11,900.00	7,870.00	5,048.00	5,048.00	112.44	87.19	16.09	-8,182.26	4,332.23	8,295.49	8,109.87	185.62	44.691		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - ABND VERT MANN 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
12,000.00	7,870.00	5,048.00	5,048.00	112.36	87.19	16.09	-8,182.26	4,332.23	8,201.89	8,016.45	185.44	44.229		
12,100.00	7,870.00	5,048.00	5,048.00	112.29	87.19	16.09	-8,182.26	4,332.23	8,108.45	7,923.19	185.26	43.768		
12,200.00	7,870.00	5,048.00	5,048.00	112.24	87.19	16.09	-8,182.26	4,332.23	8,015.17	7,830.09	185.08	43.307		
12,300.00	7,870.00	5,048.00	5,048.00	112.20	87.19	16.09	-8,182.26	4,332.23	7,922.05	7,737.17	184.88	42.849		
12,400.00	7,870.00	5,048.00	5,048.00	112.17	87.19	16.09	-8,182.26	4,332.23	7,829.10	7,644.42	184.69	42.391		
12,500.00	7,870.00	5,048.00	5,048.00	112.16	87.19	16.09	-8,182.26	4,332.23	7,736.33	7,551.85	184.48	41.935		
12,600.00	7,870.00	5,048.00	5,048.00	112.17	87.19	16.09	-8,182.26	4,332.23	7,643.74	7,459.46	184.27	41.480		
12,700.00	7,870.00	5,048.00	5,048.00	112.19	87.19	16.09	-8,182.26	4,332.23	7,551.34	7,367.28	184.06	41.027		
12,800.00	7,870.00	5,048.00	5,048.00	112.23	87.19	16.09	-8,182.26	4,332.23	7,459.13	7,275.29	183.84	40.575		
12,900.00	7,870.00	5,048.00	5,048.00	112.28	87.19	16.09	-8,182.26	4,332.23	7,367.13	7,183.52	183.61	40.125		
13,000.00	7,870.00	5,048.00	5,048.00	112.36	87.19	16.09	-8,182.26	4,332.23	7,275.34	7,091.97	183.37	39.676		
13,100.00	7,870.00	5,048.00	5,048.00	112.45	87.19	16.09	-8,182.26	4,332.23	7,183.76	7,000.64	183.12	39.229		
13,200.00	7,870.00	5,048.00	5,048.00	112.56	87.19	16.09	-8,182.26	4,332.23	7,092.42	6,909.55	182.87	38.783		
13,300.00	7,870.00	5,048.00	5,048.00	112.68	87.19	16.09	-8,182.26	4,332.23	7,001.31	6,818.70	182.61	38.340		
13,400.00	7,870.00	5,048.00	5,048.00	112.83	87.19	16.09	-8,182.26	4,332.23	6,910.45	6,728.11	182.34	37.899		
13,500.00	7,870.00	5,048.00	5,048.00	113.00	87.19	16.09	-8,182.26	4,332.23	6,819.84	6,637.78	182.06	37.459		
13,600.00	7,870.00	5,048.00	5,048.00	113.19	87.19	16.09	-8,182.26	4,332.23	6,729.50	6,547.73	181.77	37.021		
13,700.00	7,870.00	5,048.00	5,048.00	113.40	87.19	16.09	-8,182.26	4,332.23	6,639.44	6,457.96	181.47	36.586		
13,800.00	7,870.00	5,048.00	5,048.00	113.63	87.19	16.09	-8,182.26	4,332.23	6,549.66	6,368.50	181.16	36.153		
13,900.00	7,870.00	5,048.00	5,048.00	113.89	87.19	16.09	-8,182.26	4,332.23	6,460.19	6,279.34	180.84	35.722		
14,000.00	7,870.00	5,048.00	5,048.00	114.18	87.19	16.09	-8,182.26	4,332.23	6,371.03	6,190.51	180.51	35.294		
14,100.00	7,870.00	5,048.00	5,048.00	114.48	87.19	16.09	-8,182.26	4,332.23	6,282.19	6,102.02	180.17	34.868		
14,200.00	7,870.00	5,048.00	5,048.00	114.82	87.19	16.09	-8,182.26	4,332.23	6,193.70	6,013.88	179.81	34.445		
14,300.00	7,870.00	5,048.00	5,048.00	115.18	87.19	16.09	-8,182.26	4,332.23	6,105.56	5,926.11	179.44	34.025		
14,400.00	7,870.00	5,048.00	5,048.00	115.57	87.19	16.09	-8,182.26	4,332.23	6,017.79	5,838.73	179.06	33.608		
14,500.00	7,870.00	5,048.00	5,048.00	115.99	87.19	16.09	-8,182.26	4,332.23	5,930.41	5,751.75	178.66	33.194		
14,600.00	7,870.00	5,048.00	5,048.00	116.44	87.19	16.09	-8,182.26	4,332.23	5,843.43	5,665.18	178.25	32.783		
14,700.00	7,870.00	5,048.00	5,048.00	116.92	87.19	16.09	-8,182.26	4,332.23	5,756.88	5,579.06	177.82	32.375		
14,800.00	7,870.00	5,048.00	5,048.00	117.44	87.19	16.09	-8,182.26	4,332.23	5,670.76	5,493.39	177.37	31.971		
14,900.00	7,870.00	5,048.00	5,048.00	117.98	87.19	16.09	-8,182.26	4,332.23	5,585.11	5,408.21	176.91	31.571		
15,000.00	7,870.00	5,048.00	5,048.00	118.56	87.19	16.09	-8,182.26	4,332.23	5,499.95	5,323.52	176.43	31.174		
15,100.00	7,870.00	5,048.00	5,048.00	119.17	87.19	16.09	-8,182.26	4,332.23	5,415.29	5,239.37	175.92	30.782		
15,200.00	7,870.00	5,048.00	5,048.00	119.81	87.19	16.09	-8,182.26	4,332.23	5,331.17	5,155.76	175.40	30.394		
15,300.00	7,870.00	5,048.00	5,048.00	120.48	87.19	16.09	-8,182.26	4,332.23	5,247.60	5,072.74	174.86	30.010		
15,400.00	7,870.00	5,048.00	5,048.00	121.19	87.19	16.09	-8,182.26	4,332.23	5,164.61	4,990.32	174.30	29.631		
15,500.00	7,870.00	5,048.00	5,048.00	121.93	87.19	16.09	-8,182.26	4,332.23	5,082.24	4,908.53	173.71	29.257		
15,600.00	7,870.00	5,048.00	5,048.00	122.71	87.19	16.09	-8,182.26	4,332.23	5,000.51	4,827.41	173.10	28.888		
15,700.00	7,870.00	5,048.00	5,048.00	123.52	87.19	16.09	-8,182.26	4,332.23	4,919.46	4,747.00	172.46	28.525		
15,800.00	7,870.00	5,048.00	5,048.00	124.36	87.19	16.09	-8,182.26	4,332.23	4,839.11	4,667.32	171.80	28.167		
15,900.00	7,870.00	5,048.00	5,048.00	125.23	87.19	16.09	-8,182.26	4,332.23	4,759.51	4,588.41	171.11	27.816		
16,000.00	7,870.00	5,048.00	5,048.00	126.14	87.19	16.09	-8,182.26	4,332.23	4,680.70	4,510.31	170.39	27.471		
16,100.00	7,870.00	5,048.00	5,048.00	127.07	87.19	16.09	-8,182.26	4,332.23	4,602.70	4,433.06	169.64	27.132		
16,200.00	7,870.00	5,048.00	5,048.00	128.04	87.19	16.09	-8,182.26	4,332.23	4,525.57	4,356.71	168.86	26.801		
16,300.00	7,870.00	5,048.00	5,048.00	129.04	87.19	16.09	-8,182.26	4,332.23	4,449.35	4,281.31	168.05	26.477		
16,400.00	7,870.00	5,048.00	5,048.00	130.06	87.19	16.09	-8,182.26	4,332.23	4,374.09	4,206.90	167.20	26.161		
16,500.00	7,870.00	5,048.00	5,048.00	131.11	87.19	16.09	-8,182.26	4,332.23	4,299.84	4,133.53	166.32	25.853		
16,600.00	7,870.00	5,048.00	5,048.00	132.19	87.19	16.09	-8,182.26	4,332.23	4,226.65	4,061.25	165.40	25.554		
16,700.00	7,870.00	5,048.00	5,048.00	133.29	87.19	16.09	-8,182.26	4,332.23	4,154.58	3,990.14	164.45	25.264		
16,800.00	7,870.00	5,048.00	5,048.00	134.42	87.19	16.09	-8,182.26	4,332.23	4,083.69	3,920.23	163.45	24.984		
16,900.00	7,870.00	5,048.00	5,048.00	135.57	87.19	16.09	-8,182.26	4,332.23	4,014.03	3,851.61	162.42	24.714		
17,000.00	7,870.00	5,048.00	5,048.00	136.75	87.19	16.09	-8,182.26	4,332.23	3,945.68	3,784.33	161.35	24.454		
17,100.00	7,870.00	5,048.00	5,048.00	137.94	87.19	16.09	-8,182.26	4,332.23	3,878.70	3,718.47	160.24	24.206		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - ABND VERT MANN 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
17,200.00	7,870.00	5,048.00	5,048.00	139.16	87.19	16.09	-8,182.26	4,332.23	3,813.17	3,654.09	159.08	23.970		
17,300.00	7,870.00	5,048.00	5,048.00	140.39	87.19	16.09	-8,182.26	4,332.23	3,749.16	3,591.28	157.89	23.746		
17,400.00	7,870.00	5,048.00	5,048.00	141.65	87.19	16.09	-8,182.26	4,332.23	3,686.76	3,530.10	156.65	23.535		
17,500.00	7,870.00	5,048.00	5,048.00	142.92	87.19	16.09	-8,182.26	4,332.23	3,626.03	3,470.66	155.37	23.337		
17,600.00	7,870.00	5,048.00	5,048.00	144.21	87.19	16.09	-8,182.26	4,332.23	3,567.08	3,413.02	154.06	23.154		
17,700.00	7,870.00	5,048.00	5,048.00	145.52	87.19	16.09	-8,182.26	4,332.23	3,509.99	3,357.28	152.71	22.985		
17,800.00	7,870.00	5,048.00	5,048.00	146.84	87.19	16.09	-8,182.26	4,332.23	3,454.85	3,303.53	151.32	22.832		
17,900.00	7,870.00	5,048.00	5,048.00	148.18	87.19	16.09	-8,182.26	4,332.23	3,401.75	3,251.86	149.89	22.694		
18,000.00	7,870.00	5,048.00	5,048.00	149.54	87.19	16.09	-8,182.26	4,332.23	3,350.80	3,202.35	148.44	22.573		
18,100.00	7,870.00	5,048.00	5,048.00	150.90	87.19	16.09	-8,182.26	4,332.23	3,302.09	3,155.12	146.97	22.468		
18,200.00	7,870.00	5,048.00	5,048.00	152.28	87.19	16.09	-8,182.26	4,332.23	3,255.72	3,110.24	145.48	22.379		
18,300.00	7,870.00	5,048.00	5,048.00	153.67	87.19	16.09	-8,182.26	4,332.23	3,211.80	3,067.82	143.98	22.307		
18,400.00	7,870.00	5,048.00	5,048.00	155.07	87.19	16.09	-8,182.26	4,332.23	3,170.43	3,027.95	142.48	22.251		
18,500.00	7,870.00	5,048.00	5,048.00	156.49	87.19	16.09	-8,182.26	4,332.23	3,131.71	2,990.71	141.00	22.211		
18,600.00	7,870.00	5,048.00	5,048.00	157.91	87.19	16.09	-8,182.26	4,332.23	3,095.73	2,956.19	139.54	22.186		
18,700.00	7,870.00	5,048.00	5,048.00	159.35	87.19	16.09	-8,182.26	4,332.23	3,062.59	2,924.47	138.12	22.173		
18,800.00	7,870.00	5,048.00	5,048.00	160.79	87.19	16.09	-8,182.26	4,332.23	3,032.40	2,895.63	136.77	22.172		
18,900.00	7,870.00	5,048.00	5,048.00	162.25	87.19	16.09	-8,182.26	4,332.23	3,005.22	2,869.72	135.50	22.179		
19,000.00	7,870.00	5,048.00	5,048.00	163.71	87.19	16.09	-8,182.26	4,332.23	2,981.16	2,846.82	134.34	22.191		
19,100.00	7,870.00	5,048.00	5,048.00	165.18	87.19	16.09	-8,182.26	4,332.23	2,960.28	2,826.96	133.32	22.204		
19,200.00	7,870.00	5,048.00	5,048.00	166.66	87.19	16.09	-8,182.26	4,332.23	2,942.65	2,810.18	132.48	22.213		
19,300.00	7,870.00	5,048.00	5,048.00	168.15	87.19	16.09	-8,182.26	4,332.23	2,928.34	2,796.51	131.83	22.213		
19,400.00	7,870.00	5,048.00	5,048.00	169.65	87.19	16.09	-8,182.26	4,332.23	2,917.38	2,785.96	131.42	22.199		
19,500.00	7,870.00	5,048.00	5,048.00	171.15	87.19	16.09	-8,182.26	4,332.23	2,909.82	2,778.55	131.27	22.166		
19,600.00	7,870.00	5,048.00	5,048.00	172.66	87.19	16.09	-8,182.26	4,332.23	2,905.68	2,774.28	131.40	22.112		
19,670.27	7,870.00	5,048.00	5,048.00	173.72	87.19	16.09	-8,182.26	4,332.23	2,904.83	2,773.16	131.67	22.061 CC		
19,700.00	7,870.00	5,048.00	5,048.00	174.18	87.19	16.09	-8,182.26	4,332.23	2,904.99	2,773.15	131.83	22.036 ES		
19,800.00	7,870.00	5,048.00	5,048.00	175.70	87.19	16.09	-8,182.26	4,332.23	2,907.73	2,775.18	132.55	21.937		
19,889.26	7,870.00	5,048.00	5,048.00	177.06	87.19	16.09	-8,182.26	4,332.23	2,913.08	2,779.65	133.43	21.833 SF		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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	142.67	-4,068.91	3,103.50	5,117.40					
100.00	100.00	111.32	111.32	0.13	0.20	142.67	-4,068.87	3,103.16	5,117.20	5,116.87	0.33	N/A		
200.00	200.00	235.00	234.99	0.49	0.41	142.68	-4,068.74	3,102.01	5,116.56	5,115.65	0.91	5,644.313		
300.00	300.00	358.65	358.63	0.85	0.63	142.69	-4,068.52	3,100.04	5,115.45	5,113.96	1.48	3,450.894		
400.00	399.98	482.20	482.15	1.21	0.85	74.63	-4,068.21	3,097.24	5,113.41	5,111.36	2.05	2,489.629		
500.00	499.84	605.41	605.30	1.56	1.07	74.80	-4,067.80	3,093.64	5,110.00	5,107.37	2.63	1,945.229		
600.00	599.45	661.34	661.22	1.93	1.37	74.94	-4,067.54	3,092.63	5,106.09	5,102.79	3.30	1,548.382		
700.00	698.70	732.00	731.88	2.32	1.62	75.11	-4,066.97	3,092.30	5,101.92	5,097.99	3.92	1,300.138		
800.00	797.47	792.76	792.62	2.72	1.82	75.29	-4,066.15	3,093.09	5,097.51	5,092.98	4.53	1,124.865		
900.00	895.62	871.45	871.27	3.16	2.09	75.52	-4,064.58	3,095.34	5,092.73	5,087.50	5.23	974.048		
1,000.00	993.06	1,069.35	1,068.74	3.63	2.78	75.99	-4,056.02	3,104.82	5,086.48	5,080.10	6.38	796.781		
1,100.00	1,089.64	1,135.16	1,134.33	4.14	3.01	76.27	-4,052.08	3,108.57	5,078.61	5,071.48	7.12	712.977		
1,200.00	1,185.27	1,196.16	1,195.07	4.70	3.23	76.56	-4,048.45	3,112.78	5,070.68	5,062.79	7.89	642.549		
1,300.00	1,279.82	1,368.88	1,366.61	5.31	3.88	77.14	-4,035.24	3,127.91	5,061.82	5,052.69	9.13	554.171		
1,400.00	1,373.17	1,483.94	1,480.29	5.97	4.34	77.61	-4,022.95	3,140.66	5,051.12	5,040.88	10.24	493.432		
1,500.00	1,465.21	1,551.00	1,546.30	6.69	4.62	78.00	-4,014.95	3,149.35	5,039.87	5,028.65	11.22	449.282		
1,600.00	1,555.84	1,599.37	1,593.81	7.47	4.82	78.34	-4,009.15	3,156.30	5,028.78	5,016.59	12.19	412.518		
1,700.00	1,644.94	1,645.27	1,638.82	8.31	5.02	78.69	-4,003.82	3,163.62	5,018.15	5,004.94	13.22	379.630		
1,800.00	1,732.39	1,800.00	1,781.21	9.23	5.72	79.38	-3,985.41	3,188.77	5,006.95	4,992.14	14.81	338.155		
1,900.00	1,818.11	1,900.00	2,056.41	10.21	6.19	80.69	-3,944.83	3,231.54	4,992.28	4,976.07	16.21	308.001		
2,000.00	1,901.97	2,126.33	2,109.22	11.26	7.22	81.24	-3,937.02	3,238.28	4,976.46	4,958.18	18.28	272.205		
2,100.00	1,983.88	2,163.00	2,145.27	12.38	7.39	81.71	-3,932.18	3,242.96	4,961.42	4,941.86	19.56	253.591		
2,200.00	2,063.74	2,216.06	2,197.47	13.57	7.63	82.28	-3,925.64	3,249.91	4,947.05	4,926.05	20.99	235.662		
2,300.00	2,141.45	2,274.64	2,255.09	14.84	7.90	82.88	-3,918.76	3,257.86	4,933.26	4,910.73	22.52	219.056		
2,327.78	2,162.65	2,295.17	2,275.28	15.21	7.99	83.07	-3,916.35	3,260.73	4,929.49	4,906.52	22.98	214.542		
2,400.00	2,217.51	2,347.99	2,327.18	16.17	8.23	83.38	-3,910.12	3,268.30	4,919.93	4,895.75	24.18	203.513		
2,500.00	2,293.49	2,418.04	2,396.00	17.51	8.55	83.79	-3,901.98	3,278.51	4,907.33	4,881.49	25.84	189.919		
2,600.00	2,369.47	2,494.88	2,471.52	18.86	8.91	84.23	-3,893.29	3,289.70	4,895.45	4,867.90	27.55	177.717		
2,700.00	2,445.45	2,619.27	2,593.64	20.22	9.48	84.96	-3,878.48	3,308.16	4,883.71	4,854.23	29.48	165.664		
2,800.00	2,521.42	2,686.00	2,659.03	21.59	9.80	85.34	-3,870.23	3,318.63	4,872.48	4,841.31	31.17	156.308		
2,900.00	2,597.40	2,784.88	2,755.81	22.97	10.27	85.90	-3,857.78	3,334.58	4,861.76	4,828.74	33.02	147.233		
3,000.00	2,673.38	2,843.90	2,813.68	24.34	10.55	86.25	-3,850.62	3,343.73	4,851.62	4,816.92	34.69	139.845		
3,100.00	2,749.36	2,917.12	2,885.64	25.73	10.89	86.68	-3,842.46	3,354.46	4,842.37	4,805.94	36.43	132.933		
3,200.00	2,825.33	3,014.45	2,981.30	27.11	11.35	87.26	-3,831.60	3,368.82	4,833.68	4,795.41	38.27	126.300		
3,300.00	2,901.31	3,146.66	3,110.98	28.50	11.97	88.04	-3,815.41	3,388.82	4,824.72	4,784.45	40.28	119.792		
3,400.00	2,977.29	3,210.00	3,173.13	29.90	12.27	88.41	-3,807.74	3,398.27	4,816.34	4,774.36	41.98	114.727		
3,500.00	3,053.27	3,249.28	3,211.69	31.29	12.46	88.65	-3,803.25	3,404.26	4,809.07	4,765.49	43.58	110.348		
3,600.00	3,129.24	3,297.00	3,258.51	32.69	12.68	88.93	-3,798.05	3,411.91	4,803.08	4,757.86	45.22	106.223		
3,700.00	3,205.22	3,336.25	3,297.00	34.08	12.87	89.16	-3,794.05	3,418.46	4,798.36	4,751.55	46.81	102.500		
3,800.00	3,281.20	3,385.00	3,344.82	35.48	13.10	89.44	-3,789.52	3,426.79	4,794.98	4,746.54	48.45	98.969		
3,900.00	3,357.18	3,432.67	3,391.59	36.88	13.32	89.72	-3,785.46	3,435.06	4,792.81	4,742.74	50.08	95.712		
4,000.00	3,433.15	3,499.71	3,457.40	38.29	13.64	90.12	-3,780.15	3,446.71	4,791.67	4,739.88	51.79	92.523		
4,100.00	3,509.13	3,521.00	3,473.66	39.69	15.11	92.08	-3,748.94	3,493.29	4,787.78	4,733.17	54.60	87.682		
4,200.00	3,585.11	3,584.09	3,535.92	41.09	15.39	92.48	-3,742.06	3,500.84	4,783.69	4,727.41	56.28	84.998		
4,300.00	3,661.08	3,556.81	3,507.73	42.50	15.71	92.94	-3,734.65	3,509.59	4,780.71	4,722.72	57.99	82.438		
4,400.00	3,737.06	4,050.31	3,999.99	43.90	16.13	93.53	-3,724.90	3,521.19	4,778.25	4,718.47	59.78	79.929		
4,500.00	3,813.04	4,110.64	4,059.47	45.31	16.40	93.91	-3,718.50	3,528.97	4,776.41	4,714.98	61.44	77.747		
4,600.00	3,889.02	4,170.00	4,117.94	46.71	16.67	94.28	-3,712.61	3,537.40	4,775.91	4,712.82	63.08	75.708		
4,665.61	3,938.87	4,665.61	4,174.54	47.64	19.01	94.62	-3,706.56	3,546.40	4,775.88	4,709.58	66.29	72.042		
4,700.00	3,964.99	4,277.55	4,223.54	48.12	17.18	94.92	-3,701.18	3,554.28	4,775.88	4,710.94	64.94	73.538		
4,704.92	3,968.73	4,280.01	4,225.95	48.19	17.19	94.94	-3,700.91	3,554.66	4,775.88	4,710.86	65.02	73.448		
4,800.00	4,040.97	4,326.98	4,272.14	49.53	17.41	95.22	-3,696.07	3,561.68	4,776.42	4,709.88	66.54	71.780		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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		
4,900.00	4,116.95	4,378.71	4,323.17	50.94	17.64	95.55	-3,691.36	3,568.71	4,778.16	4,710.03	68.13	70.131		
5,000.00	4,192.93	4,432.00	4,375.85	52.35	17.87	95.88	-3,687.02	3,575.46	4,781.04	4,711.33	69.71	68.584		
5,100.00	4,268.90	4,489.75	4,433.10	53.76	18.11	96.26	-3,682.92	3,581.88	4,785.04	4,713.76	71.28	67.128		
5,200.00	4,344.88	4,557.83	4,500.79	55.16	18.38	96.72	-3,678.88	3,587.84	4,790.08	4,717.21	72.87	65.735		
5,300.00	4,420.86	4,632.73	4,575.44	56.57	18.65	97.25	-3,674.97	3,592.62	4,795.91	4,721.45	74.45	64.414		
5,400.00	4,496.84	4,699.72	4,642.29	57.98	18.89	97.73	-3,671.94	3,595.66	4,802.65	4,726.67	75.98	63.206		
5,500.00	4,572.81	4,770.42	4,712.90	59.39	19.13	98.25	-3,669.13	3,597.81	4,810.33	4,732.83	77.50	62.067		
5,600.00	4,648.79	4,823.23	4,765.67	60.81	19.30	98.65	-3,667.36	3,598.71	4,819.05	4,740.11	78.93	61.052		
5,700.00	4,724.77	4,872.58	4,815.00	62.22	19.45	99.02	-3,666.15	3,598.87	4,829.03	4,748.70	80.33	60.113		
5,800.00	4,800.74	4,938.34	4,880.76	63.63	19.64	99.53	-3,664.98	3,598.06	4,840.15	4,758.39	81.75	59.205		
5,900.00	4,876.72	5,027.78	4,970.14	65.04	19.89	100.23	-3,663.67	3,595.50	4,852.15	4,768.94	83.22	58.308		
6,000.00	4,952.70	5,103.69	5,045.99	66.45	20.10	100.83	-3,662.45	3,592.75	4,864.84	4,780.22	84.62	57.491		
6,100.00	5,028.68	5,184.09	5,126.31	67.86	20.32	101.47	-3,661.20	3,589.44	4,878.42	4,792.40	86.02	56.714		
6,200.00	5,104.65	5,269.82	5,211.95	69.27	20.56	102.15	-3,659.71	3,585.65	4,892.72	4,805.31	87.41	55.972		
6,300.00	5,180.63	5,333.60	5,275.65	70.69	20.74	102.65	-3,658.53	3,582.77	4,907.83	4,819.10	88.73	55.310		
6,400.00	5,256.61	5,382.75	5,324.76	72.10	20.88	103.04	-3,657.80	3,581.00	4,924.15	4,834.16	89.99	54.717		
6,500.00	5,332.59	5,432.61	5,374.61	73.51	21.02	103.42	-3,657.26	3,579.71	4,941.69	4,850.46	91.24	54.163		
6,600.00	5,408.56	5,484.38	5,426.37	74.92	21.17	103.81	-3,656.92	3,578.90	4,960.43	4,867.96	92.47	53.644		
6,700.00	5,484.54	5,554.27	5,496.26	76.34	21.38	104.34	-3,656.62	3,578.16	4,980.18	4,886.42	93.75	53.119		
6,800.00	5,560.52	5,624.25	5,566.23	77.75	21.58	104.86	-3,656.39	3,577.50	5,000.79	4,905.76	95.02	52.627		
6,900.00	5,636.50	5,697.09	5,639.07	79.16	21.80	105.40	-3,656.22	3,576.86	5,022.24	4,925.96	96.29	52.160		
7,000.00	5,712.47	5,771.99	5,713.96	80.57	22.02	105.95	-3,656.06	3,576.10	5,044.47	4,946.93	97.54	51.718		
7,100.00	5,788.45	5,848.12	5,790.09	81.99	22.25	106.52	-3,655.91	3,575.21	5,067.46	4,968.69	98.78	51.301		
7,200.00	5,864.43	5,928.65	5,870.61	83.40	22.49	107.11	-3,655.70	3,574.11	5,091.15	4,991.13	100.02	50.902		
7,300.00	5,940.40	6,008.93	5,950.88	84.81	22.73	107.70	-3,655.40	3,572.83	5,115.50	5,014.26	101.24	50.529		
7,400.00	6,016.38	6,088.58	6,030.51	86.23	22.97	108.28	-3,655.03	3,571.38	5,140.51	5,038.07	102.44	50.180		
7,500.00	6,092.36	6,168.00	6,109.92	87.64	23.21	108.86	-3,654.58	3,569.75	5,166.19	5,062.56	103.62	49.855		
7,600.00	6,168.34	6,238.43	6,180.33	89.05	23.42	109.37	-3,654.17	3,568.20	5,192.57	5,087.82	104.76	49.569		
7,700.00	6,244.31	6,307.43	6,249.31	90.47	23.63	109.86	-3,653.83	3,566.60	5,219.75	5,113.89	105.86	49.306		
7,800.00	6,320.29	6,383.70	6,325.56	91.88	23.86	110.41	-3,653.53	3,564.79	5,247.70	5,140.71	106.98	49.051		
7,900.00	6,396.27	6,474.84	6,416.67	93.30	24.14	111.06	-3,652.98	3,562.80	5,276.17	5,168.02	108.15	48.786		
8,000.00	6,472.25	6,561.10	6,502.92	94.71	24.40	111.66	-3,652.23	3,561.15	5,305.10	5,195.82	109.28	48.544		
8,100.00	6,548.22	6,640.29	6,582.09	96.12	24.65	112.21	-3,651.47	3,559.89	5,334.61	5,224.23	110.38	48.330		
8,200.00	6,624.20	6,720.96	6,662.75	97.54	24.91	112.77	-3,650.66	3,558.86	5,364.70	5,253.23	111.47	48.127		
8,300.00	6,700.18	6,806.04	6,747.83	98.95	25.18	113.34	-3,649.74	3,558.28	5,395.31	5,282.74	112.57	47.928		
8,400.00	6,776.16	6,892.16	6,833.94	100.37	25.46	113.92	-3,648.74	3,558.32	5,426.39	5,312.72	113.67	47.739		
8,500.00	6,852.13	6,956.52	6,898.30	101.78	25.67	114.34	-3,648.06	3,558.52	5,458.10	5,343.43	114.66	47.601		
8,600.00	6,928.11	7,024.19	6,965.96	103.20	25.89	114.78	-3,647.45	3,558.78	5,490.50	5,374.84	115.66	47.472		
8,700.00	7,004.09	7,091.82	7,033.59	104.61	26.11	115.22	-3,646.96	3,559.08	5,523.58	5,406.95	116.64	47.357		
8,800.00	7,080.06	7,159.35	7,101.12	106.02	26.34	115.65	-3,646.57	3,559.37	5,557.34	5,439.74	117.60	47.256		
8,900.00	7,156.04	7,227.09	7,168.85	107.44	26.56	116.08	-3,646.29	3,559.65	5,591.76	5,473.21	118.55	47.168		
9,000.00	7,232.02	7,319.56	7,261.32	108.85	26.86	116.67	-3,645.79	3,559.78	5,626.66	5,507.06	119.60	47.046		
9,104.68	7,311.55	7,416.21	7,357.97	110.33	27.17	117.28	-3,644.88	3,559.41	5,663.53	5,542.85	120.68	46.931		
9,150.00	7,346.29	7,459.17	7,400.92	110.97	27.31	117.85	-3,644.34	3,559.06	5,677.93	5,556.78	121.15	46.867		
9,200.00	7,385.15	7,506.95	7,448.70	111.65	27.47	118.42	-3,643.63	3,558.53	5,689.97	5,568.29	121.68	46.762		
9,250.00	7,424.29	7,554.75	7,496.49	112.31	27.63	119.00	-3,642.80	3,557.83	5,697.90	5,575.68	122.22	46.621		
9,300.00	7,463.40	7,602.17	7,543.88	112.93	27.78	119.58	-3,641.87	3,556.99	5,701.68	5,578.93	122.75	46.449		
9,350.00	7,502.19	7,622.35	7,564.06	113.51	27.85	120.16	-3,641.60	3,556.85	5,701.43	5,578.27	123.17	46.290		
9,400.00	7,540.36	7,652.15	7,593.86	114.04	27.94	120.74	-3,641.18	3,556.64	5,697.13	5,573.51	123.62	46.088		
9,450.00	7,577.62	7,681.48	7,623.19	114.53	28.04	121.32	-3,640.85	3,556.57	5,688.82	5,564.77	124.05	45.860		
9,500.00	7,613.70	7,710.13	7,651.84	114.95	28.13	121.90	-3,640.60	3,556.64	5,676.56	5,552.09	124.46	45.609		
9,550.00	7,648.30	7,737.88	7,679.58	115.32	28.23	122.48	-3,640.42	3,556.84	5,660.43	5,535.58	124.85	45.338		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,600.00	7,681.18	7,774.87	7,716.57	115.63	28.35	67.07	-3,640.27	3,557.32	5,640.54	5,515.28	125.26	45.029		
9,650.00	7,712.08	7,818.28	7,759.97	115.88	28.50	64.95	-3,640.10	3,558.19	5,616.94	5,491.25	125.69	44.689		
9,700.00	7,740.76	7,859.01	7,800.69	116.08	28.63	63.47	-3,639.93	3,559.32	5,589.81	5,463.73	126.08	44.336		
9,750.00	7,767.01	7,896.64	7,838.29	116.23	28.76	62.64	-3,639.77	3,560.63	5,559.34	5,432.91	126.43	43.973		
9,800.00	7,790.63	7,930.78	7,872.40	116.33	28.87	62.49	-3,639.63	3,562.05	5,525.77	5,399.03	126.73	43.601		
9,850.00	7,811.44	9,850.00	7,866.04	116.38	35.36	62.60	-3,639.65	3,561.76	5,489.43	5,355.94	133.49	41.122		
9,900.00	7,829.28	7,924.00	7,865.63	116.38	28.85	63.57	-3,639.66	3,561.75	5,450.60	5,323.71	126.89	42.957		
9,950.00	7,844.01	7,958.79	7,900.39	116.35	28.97	66.09	-3,639.59	3,563.28	5,409.32	5,282.18	127.13	42.548		
10,000.00	7,855.52	7,965.82	7,907.41	116.28	28.99	69.49	-3,639.60	3,563.59	5,366.16	5,238.94	127.22	42.182		
10,050.00	7,863.72	7,970.88	7,912.46	116.18	29.01	74.61	-3,639.61	3,563.82	5,321.30	5,194.03	127.27	41.810		
10,100.00	7,868.56	7,973.92	7,915.50	116.06	29.02	82.14	-3,639.62	3,563.95	5,275.08	5,147.77	127.31	41.435		
10,145.94	7,870.00	7,974.88	7,916.46	115.92	29.02	92.04	-3,639.63	3,564.00	5,231.66	5,104.34	127.33	41.088		
10,200.00	7,870.00	7,974.98	7,916.56	115.76	29.02	92.04	-3,639.63	3,564.00	5,180.19	5,052.85	127.34	40.680		
10,300.00	7,870.00	7,975.16	7,916.74	115.46	29.02	92.05	-3,639.63	3,564.01	5,085.10	4,957.74	127.36	39.926		
10,400.00	7,870.00	7,975.34	7,916.92	115.18	29.02	92.05	-3,639.63	3,564.02	4,990.21	4,862.83	127.39	39.174		
10,500.00	7,870.00	7,975.52	7,917.10	114.91	29.02	92.06	-3,639.63	3,564.02	4,895.53	4,768.12	127.41	38.423		
10,600.00	7,870.00	7,975.71	7,917.29	114.65	29.02	92.07	-3,639.63	3,564.03	4,801.06	4,673.62	127.44	37.674		
10,700.00	7,870.00	7,975.90	7,917.48	114.41	29.03	92.07	-3,639.63	3,564.04	4,706.81	4,579.36	127.46	36.928		
10,800.00	7,870.00	7,976.10	7,917.68	114.17	29.03	92.08	-3,639.63	3,564.05	4,612.81	4,485.33	127.48	36.184		
10,900.00	7,870.00	7,976.30	7,917.88	113.95	29.03	92.09	-3,639.63	3,564.06	4,519.07	4,391.57	127.51	35.442		
11,000.00	7,870.00	7,976.50	7,918.08	113.75	29.03	92.09	-3,639.63	3,564.07	4,425.60	4,298.07	127.53	34.703		
11,100.00	7,870.00	7,976.71	7,918.28	113.55	29.03	92.10	-3,639.63	3,564.08	4,332.43	4,204.87	127.55	33.966		
11,200.00	7,870.00	7,976.92	7,918.49	113.37	29.03	92.11	-3,639.63	3,564.09	4,239.56	4,111.99	127.57	33.233		
11,300.00	7,870.00	7,977.13	7,918.71	113.20	29.03	92.12	-3,639.63	3,564.10	4,147.02	4,019.43	127.59	32.502		
11,400.00	7,870.00	7,977.35	7,918.93	113.04	29.03	92.12	-3,639.63	3,564.11	4,054.84	3,927.23	127.61	31.775		
11,500.00	7,870.00	7,977.57	7,919.15	112.89	29.03	92.13	-3,639.63	3,564.12	3,963.04	3,835.42	127.63	31.051		
11,600.00	7,870.00	7,977.80	7,919.38	112.76	29.03	92.14	-3,639.63	3,564.13	3,871.65	3,744.01	127.64	30.332		
11,700.00	7,870.00	7,978.03	7,919.61	112.64	29.03	92.15	-3,639.64	3,564.14	3,780.69	3,653.03	127.66	29.616		
11,800.00	7,870.00	7,978.26	7,919.84	112.53	29.03	92.16	-3,639.64	3,564.15	3,690.20	3,562.53	127.67	28.905		
11,900.00	7,870.00	7,978.51	7,920.08	112.44	29.03	92.17	-3,639.64	3,564.16	3,600.21	3,472.54	127.67	28.199		
12,000.00	7,870.00	7,978.75	7,920.33	112.36	29.04	92.17	-3,639.64	3,564.17	3,510.77	3,383.09	127.68	27.498		
12,100.00	7,870.00	7,979.00	7,920.58	112.29	29.04	92.18	-3,639.64	3,564.18	3,421.90	3,294.23	127.67	26.802		
12,200.00	7,870.00	7,979.26	7,920.83	112.24	29.04	92.19	-3,639.64	3,564.19	3,333.67	3,206.01	127.67	26.112		
12,300.00	7,870.00	7,979.52	7,921.10	112.20	29.04	92.20	-3,639.64	3,564.20	3,246.12	3,118.47	127.65	25.429		
12,400.00	7,870.00	7,979.79	7,921.36	112.17	29.04	92.21	-3,639.64	3,564.22	3,159.32	3,031.68	127.63	24.754		
12,500.00	7,870.00	7,980.06	7,921.64	112.16	29.04	92.22	-3,639.64	3,564.23	3,073.31	2,945.71	127.60	24.085		
12,600.00	7,870.00	7,980.34	7,921.91	112.17	29.04	92.23	-3,639.64	3,564.24	2,988.17	2,860.61	127.56	23.425		
12,700.00	7,870.00	7,980.62	7,922.20	112.19	29.04	92.24	-3,639.65	3,564.25	2,903.98	2,776.48	127.51	22.775		
12,800.00	7,870.00	7,980.91	7,922.49	112.23	29.04	92.25	-3,639.65	3,564.27	2,820.83	2,693.38	127.44	22.134		
12,900.00	7,870.00	7,981.21	7,922.79	112.28	29.04	92.26	-3,639.65	3,564.28	2,738.80	2,611.44	127.36	21.504		
13,000.00	7,870.00	7,981.52	7,923.09	112.36	29.04	92.27	-3,639.65	3,564.29	2,658.00	2,530.74	127.27	20.886		
13,100.00	7,870.00	7,981.83	7,923.40	112.45	29.05	92.29	-3,639.65	3,564.31	2,578.55	2,451.40	127.15	20.280		
13,200.00	7,870.00	7,982.15	7,923.72	112.56	29.05	92.30	-3,639.65	3,564.32	2,500.57	2,373.57	127.00	19.689		
13,300.00	7,870.00	7,982.47	7,924.05	112.68	29.05	92.31	-3,639.65	3,564.34	2,424.21	2,297.38	126.83	19.113		
13,400.00	7,870.00	7,982.81	7,924.38	112.83	29.05	92.32	-3,639.65	3,564.35	2,349.63	2,223.00	126.63	18.554		
13,500.00	7,870.00	7,983.15	7,924.72	113.00	29.05	92.33	-3,639.66	3,564.37	2,277.00	2,150.60	126.40	18.014		
13,600.00	7,870.00	7,983.50	7,925.07	113.19	29.05	92.35	-3,639.66	3,564.38	2,206.50	2,080.38	126.13	17.495		
13,700.00	7,870.00	7,983.86	7,925.43	113.40	29.05	92.36	-3,639.66	3,564.40	2,138.37	2,012.56	125.81	16.997		
13,800.00	7,870.00	7,984.23	7,925.80	113.63	29.05	92.37	-3,639.66	3,564.42	2,072.81	1,947.37	125.44	16.524		
13,900.00	7,870.00	7,984.61	7,926.18	113.89	29.05	92.39	-3,639.66	3,564.43	2,010.10	1,885.08	125.02	16.078		
14,000.00	7,870.00	7,985.00	7,926.57	114.18	29.06	92.40	-3,639.66	3,564.45	1,950.50	1,825.96	124.54	15.662		
14,100.00	7,870.00	7,985.39	7,926.96	114.48	29.06	92.41	-3,639.67	3,564.47	1,894.31	1,770.31	124.00	15.277		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - EXIST HZ ALAUX 4-0-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 548-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,870.00	7,985.80	7,927.37	114.82	29.06	92.43	-3,639.67	3,564.49	1,841.83	1,718.44	123.39	14.927		
14,300.00	7,870.00	7,986.22	7,927.79	115.18	29.06	92.44	-3,639.67	3,564.50	1,793.40	1,670.68	122.71	14.614		
14,400.00	7,870.00	7,986.65	7,928.22	115.57	29.06	92.46	-3,639.67	3,564.52	1,749.35	1,627.38	121.97	14.342		
14,500.00	7,870.00	7,987.09	7,928.66	115.99	29.06	92.48	-3,639.67	3,564.54	1,710.02	1,588.85	121.17	14.113		
14,600.00	7,870.00	7,987.55	7,929.12	116.44	29.06	92.49	-3,639.68	3,564.56	1,675.74	1,555.43	120.31	13.928		
14,700.00	7,870.00	7,988.02	7,929.58	116.92	29.07	92.51	-3,639.68	3,564.59	1,646.83	1,527.43	119.41	13.792		
14,800.00	7,870.00	7,988.50	7,930.06	117.44	29.07	92.53	-3,639.68	3,564.61	1,623.58	1,505.10	118.48	13.704		
14,900.00	7,870.00	7,988.99	7,930.56	117.98	29.07	92.54	-3,639.68	3,564.63	1,606.22	1,488.69	117.53	13.666 SF		
15,000.00	7,870.00	7,989.50	7,931.07	118.56	29.07	92.56	-3,639.69	3,564.65	1,594.96	1,478.35	116.61	13.678		
15,100.00	7,870.00	7,990.03	7,931.59	119.17	29.07	92.58	-3,639.69	3,564.68	1,589.91	1,474.20	115.72	13.740		
15,130.30	7,870.00	7,990.19	7,931.76	119.36	29.07	92.59	-3,639.69	3,564.68	1,589.63	1,474.17	115.46	13.768 CC, ES		
15,200.00	7,870.00	7,990.57	7,932.13	119.81	29.07	92.60	-3,639.69	3,564.70	1,591.15	1,476.27	114.89	13.850		
15,300.00	7,870.00	7,991.13	7,932.69	120.48	29.08	92.62	-3,639.69	3,564.73	1,598.66	1,484.52	114.14	14.006		
15,400.00	7,870.00	7,991.70	7,933.27	121.19	29.08	92.64	-3,639.70	3,564.75	1,612.34	1,498.85	113.49	14.207		
15,500.00	7,870.00	7,992.30	7,933.86	121.93	29.08	92.66	-3,639.70	3,564.78	1,632.05	1,519.10	112.95	14.449		
15,600.00	7,870.00	7,992.91	7,934.47	122.71	29.08	92.69	-3,639.70	3,564.81	1,657.57	1,545.03	112.54	14.729		
15,700.00	7,870.00	7,993.54	7,935.10	123.52	29.09	92.71	-3,639.71	3,564.83	1,688.63	1,576.39	112.24	15.045		
15,800.00	7,870.00	7,994.20	7,935.76	124.36	29.09	92.73	-3,639.71	3,564.86	1,724.93	1,612.88	112.06	15.393		
15,900.00	7,870.00	7,994.87	7,936.43	125.23	29.09	92.76	-3,639.72	3,564.90	1,766.16	1,654.18	111.98	15.772		
16,000.00	7,870.00	7,995.57	7,937.13	126.14	29.09	92.78	-3,639.72	3,564.93	1,811.98	1,699.98	112.00	16.178		
16,100.00	7,870.00	7,996.30	7,937.86	127.07	29.09	92.81	-3,639.72	3,564.96	1,862.04	1,749.94	112.10	16.610		
16,200.00	7,870.00	7,997.05	7,938.61	128.04	29.10	92.83	-3,639.73	3,564.99	1,916.02	1,803.75	112.27	17.066		
16,300.00	7,870.00	7,997.83	7,939.39	129.04	29.10	92.86	-3,639.73	3,565.03	1,973.59	1,861.10	112.49	17.544		
16,400.00	7,870.00	7,998.64	7,940.19	130.06	29.10	92.89	-3,639.74	3,565.07	2,034.45	1,921.70	112.76	18.043		
16,500.00	7,870.00	7,999.47	7,941.03	131.11	29.10	92.92	-3,639.75	3,565.10	2,098.32	1,985.26	113.05	18.560		
16,600.00	7,870.00	8,000.34	7,941.90	132.19	29.11	92.95	-3,639.75	3,565.14	2,164.92	2,051.55	113.37	19.096		
16,700.00	7,870.00	8,001.25	7,942.80	133.29	29.11	92.99	-3,639.76	3,565.18	2,234.01	2,120.30	113.70	19.647		
16,800.00	7,870.00	8,002.19	7,943.75	134.42	29.11	93.02	-3,639.76	3,565.23	2,305.37	2,191.32	114.05	20.214		
16,900.00	7,870.00	8,003.17	7,944.72	135.57	29.12	93.06	-3,639.77	3,565.27	2,378.79	2,264.40	114.39	20.795		
17,000.00	7,870.00	8,004.19	7,945.74	136.75	29.12	93.09	-3,639.78	3,565.32	2,454.09	2,339.36	114.74	21.389		
17,100.00	7,870.00	8,005.26	7,946.81	137.94	29.12	93.13	-3,639.79	3,565.37	2,531.10	2,416.03	115.08	21.995		
17,200.00	7,870.00	8,006.37	7,947.92	139.16	29.13	93.17	-3,639.79	3,565.42	2,609.68	2,494.27	115.41	22.612		
17,300.00	7,870.00	8,007.53	7,949.08	140.39	29.13	93.21	-3,639.80	3,565.47	2,689.67	2,573.94	115.74	23.240		
17,400.00	7,870.00	8,008.75	7,950.29	141.65	29.14	93.26	-3,639.81	3,565.53	2,770.97	2,654.91	116.05	23.877		
17,500.00	7,870.00	8,010.02	7,951.57	142.92	29.14	93.30	-3,639.82	3,565.58	2,853.45	2,737.09	116.36	24.522		
17,600.00	7,870.00	8,011.35	7,952.90	144.21	29.15	93.35	-3,639.83	3,565.64	2,937.02	2,820.36	116.66	25.176		
17,700.00	7,870.00	8,012.75	7,954.29	145.52	29.15	93.40	-3,639.85	3,565.71	3,021.59	2,904.64	116.95	25.837		
17,800.00	7,870.00	8,014.22	7,955.76	146.84	29.15	93.45	-3,639.86	3,565.78	3,107.07	2,989.85	117.22	26.505		
17,900.00	7,870.00	8,015.77	7,957.31	148.18	29.16	93.51	-3,639.87	3,565.85	3,193.40	3,075.91	117.49	27.180		
18,000.00	7,870.00	8,017.40	7,958.93	149.54	29.17	93.57	-3,639.89	3,565.92	3,280.50	3,162.76	117.75	27.860		
18,100.00	7,870.00	8,019.11	7,960.65	150.90	29.17	93.63	-3,639.90	3,566.00	3,368.32	3,250.33	118.00	28.546		
18,200.00	7,870.00	8,020.93	7,962.46	152.28	29.18	93.69	-3,639.92	3,566.08	3,456.81	3,338.57	118.23	29.237		
18,300.00	7,870.00	8,022.84	7,964.37	153.67	29.18	93.76	-3,639.94	3,566.17	3,545.90	3,427.44	118.46	29.933		
18,400.00	7,870.00	8,024.87	7,966.40	155.07	29.19	93.84	-3,639.96	3,566.26	3,635.56	3,516.88	118.68	30.632		
18,500.00	7,870.00	8,027.03	7,968.56	156.49	29.20	93.91	-3,639.98	3,566.36	3,725.75	3,606.85	118.90	31.336		
18,600.00	7,870.00	8,029.32	7,970.85	157.91	29.21	94.00	-3,640.01	3,566.47	3,816.42	3,697.32	119.10	32.043		
18,700.00	7,870.00	8,031.77	7,973.29	159.35	29.21	94.09	-3,640.04	3,566.58	3,907.55	3,788.25	119.30	32.754		
18,800.00	7,870.00	8,034.37	7,975.89	160.79	29.22	94.18	-3,640.07	3,566.70	3,999.10	3,879.61	119.49	33.468		
18,900.00	7,870.00	8,037.16	7,978.68	162.25	29.23	94.28	-3,640.10	3,566.83	4,091.05	3,971.37	119.68	34.184		
19,000.00	7,870.00	8,040.15	7,981.66	163.71	29.24	94.39	-3,640.13	3,566.97	4,183.36	4,063.51	119.86	34.903		
19,100.00	7,870.00	8,043.37	7,984.88	165.18	29.25	94.50	-3,640.18	3,567.12	4,276.02	4,155.99	120.03	35.625		
19,200.00	7,870.00	8,046.83	7,988.34	166.66	29.26	94.63	-3,640.22	3,567.28	4,369.01	4,248.81	120.20	36.348		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,300.00	7,870.00	8,050.58	7,992.08	168.15	29.28	94.76	-3,640.27	3,567.46	4,462.29	4,341.93	120.36	37.074	
19,400.00	7,870.00	8,054.65	7,996.14	169.65	29.29	94.91	-3,640.33	3,567.65	4,555.86	4,435.34	120.52	37.801	
19,500.00	7,870.00	8,059.07	8,000.56	171.15	29.31	95.07	-3,640.40	3,567.85	4,649.70	4,529.02	120.68	38.530	
19,600.00	7,870.00	8,063.90	8,005.39	172.66	29.32	95.24	-3,640.47	3,568.08	4,743.78	4,622.95	120.83	39.260	
19,700.00	7,870.00	8,069.21	8,010.68	174.18	29.34	95.43	-3,640.56	3,568.33	4,838.10	4,717.12	120.98	39.991	
19,800.00	7,870.00	8,075.05	8,016.52	175.70	29.36	95.64	-3,640.66	3,568.61	4,932.65	4,811.52	121.13	40.723	
19,889.26	7,870.00	8,080.79	8,022.25	177.06	29.38	95.85	-3,640.76	3,568.88	5,017.21	4,895.95	121.26	41.377	

Anticollision Report

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

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	33.25	33.25	0.00	0.05	163.76	-7,121.70	2,074.11	7,417.59					
100.00	100.00	153.36	153.36	0.13	0.39	163.76	-7,121.13	2,074.81	7,417.29	7,416.77	0.52	N/A		
200.00	200.00	232.63	232.62	0.49	0.66	163.76	-7,121.08	2,074.18	7,417.01	7,415.85	1.16	6,413.561		
232.99	232.99	257.00	256.99	0.61	0.75	163.76	-7,121.14	2,073.91	7,416.99	7,415.63	1.36	5,453.915		
300.00	300.00	292.73	292.72	0.85	0.88	163.77	-7,121.36	2,073.43	7,417.13	7,415.40	1.73	4,295.990		
400.00	399.98	349.00	348.97	1.21	1.07	95.62	-7,122.09	2,072.46	7,418.04	7,415.76	2.28	3,253.988		
500.00	499.84	411.27	411.21	1.56	1.30	95.62	-7,123.34	2,071.05	7,419.85	7,416.99	2.86	2,595.901		
600.00	599.45	479.85	479.74	1.93	1.54	95.64	-7,125.21	2,068.88	7,422.45	7,418.97	3.47	2,137.042		
700.00	698.70	561.58	561.28	2.32	1.84	95.69	-7,128.30	2,064.41	7,425.79	7,421.63	4.16	1,786.476		
800.00	797.47	937.83	933.55	2.72	3.36	96.49	-7,141.95	2,014.24	7,426.15	7,420.07	6.08	1,221.430		
900.00	895.62	986.00	980.65	3.16	3.58	96.62	-7,144.17	2,004.41	7,427.28	7,420.55	6.74	1,102.758		
1,000.00	993.06	1,050.66	1,043.64	3.63	3.89	96.79	-7,147.62	1,990.20	7,429.38	7,421.87	7.52	988.443		
1,100.00	1,089.64	1,096.00	1,087.60	4.14	4.11	96.90	-7,150.49	1,979.47	7,432.62	7,424.37	8.25	900.778		
1,200.00	1,185.27	1,096.00	1,087.60	4.70	4.11	96.81	-7,150.49	1,979.47	7,437.31	7,428.50	8.81	844.617		
1,300.00	1,279.82	1,138.01	1,128.24	5.31	4.33	96.86	-7,153.70	1,969.34	7,443.32	7,433.70	9.62	773.353		
1,400.00	1,373.17	1,183.00	1,171.73	5.97	4.56	96.91	-7,157.82	1,958.61	7,451.04	7,440.53	10.51	708.870		
1,500.00	1,465.21	1,183.00	1,171.73	6.69	4.56	96.73	-7,157.82	1,958.61	7,460.03	7,448.81	11.22	664.959		
1,600.00	1,555.84	1,217.79	1,205.29	7.47	4.75	96.70	-7,161.41	1,950.14	7,470.57	7,458.40	12.17	613.667		
1,700.00	1,644.94	1,271.00	1,256.32	8.31	5.04	96.74	-7,167.45	1,936.35	7,482.55	7,469.26	13.29	563.051		
1,800.00	1,732.39	1,271.00	1,256.32	9.23	5.04	96.47	-7,167.45	1,936.35	7,495.84	7,481.67	14.17	528.862		
1,900.00	1,818.11	1,311.02	1,294.56	10.21	5.28	96.40	-7,172.38	1,925.62	7,510.58	7,495.23	15.35	489.266		
2,000.00	1,901.97	1,358.00	1,339.41	11.26	5.55	96.36	-7,178.54	1,913.06	7,526.85	7,510.22	16.63	452.561		
2,100.00	1,983.88	1,384.08	1,364.30	12.38	5.70	96.16	-7,182.05	1,906.10	7,544.42	7,526.56	17.86	422.490		
2,200.00	2,063.74	1,462.86	1,439.49	13.57	6.17	96.27	-7,192.41	1,885.04	7,563.07	7,543.61	19.46	388.669		
2,300.00	2,141.45	1,500.09	1,475.01	14.84	6.39	96.10	-7,197.34	1,875.01	7,583.01	7,562.13	20.88	363.168		
2,327.78	2,162.65	1,510.03	1,484.49	15.21	6.45	96.05	-7,198.68	1,872.33	7,588.79	7,567.50	21.28	356.570		
2,400.00	2,217.51	1,532.00	1,505.42	16.17	6.58	96.19	-7,201.65	1,866.37	7,604.21	7,581.90	22.31	340.768		
2,500.00	2,293.49	1,559.88	1,531.96	17.51	6.76	96.37	-7,205.51	1,858.74	7,626.48	7,602.75	23.74	321.285		
2,600.00	2,369.47	1,584.83	1,555.68	18.86	6.91	96.54	-7,209.06	1,851.85	7,649.83	7,624.68	25.14	304.260		
2,700.00	2,445.45	1,620.00	1,589.04	20.22	7.13	96.77	-7,214.23	1,842.01	7,674.25	7,647.64	26.61	288.412		
2,800.00	2,521.42	1,636.87	1,605.03	21.59	7.23	96.88	-7,216.77	1,837.27	7,699.69	7,671.73	27.96	275.394		
2,900.00	2,597.40	1,666.67	1,633.27	22.97	7.42	97.07	-7,221.32	1,828.93	7,726.16	7,696.78	29.38	262.930		
3,000.00	2,673.38	1,707.00	1,671.50	24.34	7.68	97.33	-7,227.60	1,817.70	7,753.65	7,722.78	30.87	251.167		
3,100.00	2,749.36	1,977.30	1,928.54	25.73	9.39	99.07	-7,266.47	1,743.73	7,781.98	7,748.19	33.79	230.291		
3,200.00	2,825.33	2,261.44	2,201.28	27.11	11.10	100.86	-7,297.69	1,670.55	7,808.35	7,771.63	36.72	212.632		
3,300.00	2,901.31	2,283.58	2,222.56	28.50	11.24	101.00	-7,299.88	1,664.85	7,835.33	7,797.26	38.07	205.811		
3,400.00	2,977.29	2,318.00	2,255.58	29.90	11.44	101.21	-7,303.48	1,655.84	7,863.37	7,823.89	39.48	199.163		
3,500.00	3,053.27	2,338.09	2,274.84	31.29	11.57	101.34	-7,305.65	1,650.54	7,892.36	7,851.56	40.80	193.447		
3,600.00	3,129.24	2,547.49	2,476.14	32.69	12.82	102.63	-7,326.63	1,596.82	7,922.01	7,878.78	43.23	183.254		
3,700.00	3,205.22	2,672.45	2,596.69	34.08	13.55	103.40	-7,337.24	1,565.72	7,951.36	7,906.23	45.13	176.174		
3,800.00	3,281.20	2,667.00	2,591.45	35.48	13.52	103.36	-7,336.80	1,567.13	7,981.39	7,935.12	46.27	172.494		
3,900.00	3,357.18	2,709.34	2,632.21	36.88	13.77	103.62	-7,340.40	1,556.24	8,012.25	7,964.58	47.68	168.056		
4,000.00	3,433.15	2,730.09	2,652.17	38.29	13.90	103.75	-7,342.30	1,550.94	8,044.18	7,995.23	48.94	164.362		
4,100.00	3,509.13	2,755.00	2,676.15	39.69	14.05	103.90	-7,344.70	1,544.60	8,077.07	8,026.85	50.22	160.834		
4,200.00	3,585.11	2,881.70	2,798.40	41.09	14.78	104.66	-7,356.61	1,513.57	8,110.58	8,058.50	52.07	155.758		
4,300.00	3,661.08	3,010.85	2,923.62	42.50	15.51	105.43	-7,367.70	1,483.92	8,144.24	8,090.34	53.90	151.087		
4,400.00	3,737.06	4,400.00	3,011.77	43.90	23.31	105.96	-7,374.73	1,462.68	8,178.04	8,115.53	62.51	130.821		
4,500.00	3,813.04	3,145.47	3,054.03	45.31	16.27	106.22	-7,378.03	1,452.17	8,212.52	8,155.68	56.85	144.465		
4,600.00	3,889.02	3,191.00	3,097.98	46.71	16.53	106.49	-7,381.69	1,440.86	8,247.95	8,189.77	58.18	141.762		
4,700.00	3,964.99	3,191.00	3,097.98	48.12	16.53	106.49	-7,381.69	1,440.86	8,284.17	8,224.93	59.24	139.836		
4,800.00	4,040.97	3,228.64	3,134.25	49.53	16.76	106.72	-7,384.89	1,431.30	8,321.27	8,260.76	60.51	137.520		
4,900.00	4,116.95	3,256.44	3,161.00	50.94	16.92	106.88	-7,387.36	1,424.17	8,359.23	8,297.53	61.71	135.471		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,192.93	3,278.00	3,181.73	52.35	17.05	107.01	-7,389.32	1,418.59	8,398.03	8,335.18	62.85	133.620		
5,100.00	4,268.90	3,278.00	3,181.73	53.76	17.05	107.01	-7,389.32	1,418.59	8,437.78	8,373.92	63.85	132.144		
5,200.00	4,344.88	3,318.03	3,220.22	55.16	17.29	107.25	-7,393.23	1,408.28	8,478.23	8,413.15	65.08	130.276		
5,300.00	4,420.86	3,336.09	3,237.58	56.57	17.40	107.35	-7,395.13	1,403.68	8,519.64	8,453.47	66.16	128.771		
5,400.00	4,496.84	3,366.00	3,266.33	57.98	17.58	107.53	-7,398.46	1,396.14	8,561.92	8,494.62	67.30	127.220		
5,500.00	4,572.81	3,475.57	3,371.55	59.39	18.25	108.17	-7,410.32	1,368.01	8,604.81	8,535.90	68.91	124.876		
5,600.00	4,648.79	5,075.91	4,948.82	60.81	24.50	115.94	-7,469.76	1,194.27	8,639.74	8,563.30	76.44	113.028		
5,700.00	4,724.77	5,153.11	5,025.98	62.22	24.68	116.26	-7,467.14	1,193.94	8,671.22	8,593.55	77.67	111.643		
5,800.00	4,800.74	5,212.94	5,085.78	63.63	24.83	116.51	-7,465.24	1,193.80	8,703.17	8,624.33	78.85	110.381		
5,900.00	4,876.72	5,272.88	5,145.69	65.04	24.97	116.75	-7,463.47	1,193.78	8,735.64	8,655.62	80.02	109.173		
6,000.00	4,952.70	5,286.00	5,158.81	66.45	25.00	116.81	-7,463.10	1,193.79	8,768.75	8,687.70	81.05	108.190		
6,100.00	5,028.68	5,286.00	5,158.81	67.86	25.00	116.81	-7,463.10	1,193.79	8,802.87	8,720.84	82.03	107.309		
6,200.00	5,104.65	5,355.85	5,228.64	69.27	25.19	117.09	-7,461.65	1,193.48	8,837.14	8,753.93	83.21	106.197		
6,300.00	5,180.63	5,380.52	5,253.31	70.69	25.26	117.19	-7,461.37	1,193.18	8,872.55	8,788.30	84.25	105.313		
6,400.00	5,256.61	5,404.95	5,277.74	72.10	25.32	117.29	-7,461.22	1,192.79	8,908.72	8,823.45	85.27	104.475		
6,500.00	5,332.59	5,461.00	5,333.77	73.51	25.48	117.52	-7,461.34	1,191.54	8,945.84	8,859.46	86.38	103.564		
6,600.00	5,408.56	5,461.00	5,333.77	74.92	25.48	117.52	-7,461.34	1,191.54	8,983.39	8,896.08	87.30	102.901		
6,700.00	5,484.54	5,501.33	5,374.09	76.34	25.59	117.68	-7,461.70	1,190.54	9,021.77	8,933.43	88.34	102.122		
6,800.00	5,560.52	5,561.97	5,434.71	77.75	25.77	117.93	-7,462.39	1,189.33	9,060.62	8,971.18	89.45	101.298		
6,900.00	5,636.50	5,623.07	5,495.80	79.16	25.94	118.17	-7,463.27	1,188.48	9,099.91	9,009.37	90.54	100.505		
7,000.00	5,712.47	5,870.66	5,743.38	80.57	26.63	119.14	-7,464.97	1,187.16	9,138.68	9,046.43	92.25	99.059		
7,100.00	5,788.45	5,980.06	5,852.77	81.99	26.94	119.57	-7,464.41	1,186.14	9,177.08	9,083.58	93.50	98.151		
7,200.00	5,864.43	7,200.00	5,997.22	83.40	30.26	120.13	-7,462.48	1,185.39	9,214.86	9,116.87	97.98	94.044		
7,300.00	5,940.40	6,246.28	6,118.95	84.81	27.66	120.59	-7,460.39	1,185.21	9,252.73	9,156.62	96.11	96.269		
7,400.00	6,016.38	6,306.61	6,179.27	86.23	27.82	120.82	-7,459.29	1,184.84	9,291.01	9,193.84	97.18	95.611		
7,500.00	6,092.36	6,383.70	6,256.34	87.64	28.03	121.11	-7,457.90	1,184.05	9,329.68	9,231.40	98.29	94.924		
7,600.00	6,168.34	6,475.48	6,348.10	89.05	28.29	121.46	-7,456.16	1,183.26	9,368.55	9,269.10	99.44	94.212		
7,700.00	6,244.31	6,547.02	6,419.63	90.47	28.48	121.72	-7,454.78	1,182.83	9,407.62	9,307.10	100.52	93.589		
7,800.00	6,320.29	6,607.03	6,479.63	91.88	28.65	121.95	-7,453.79	1,182.70	9,447.09	9,345.54	101.55	93.025		
7,900.00	6,396.27	6,667.30	6,539.89	93.30	28.81	122.17	-7,452.97	1,182.80	9,486.97	9,384.39	102.58	92.482		
8,000.00	6,472.25	6,745.53	6,618.12	94.71	29.02	122.45	-7,452.07	1,183.16	9,527.20	9,423.54	103.66	91.907		
8,100.00	6,548.22	6,830.10	6,702.68	96.12	29.25	122.75	-7,451.03	1,183.60	9,567.63	9,462.87	104.75	91.335		
8,200.00	6,624.20	6,920.38	6,792.96	97.54	29.49	123.07	-7,449.82	1,184.05	9,608.24	9,502.38	105.86	90.763		
8,300.00	6,700.18	7,013.36	6,885.92	98.95	29.74	123.40	-7,448.37	1,184.36	9,648.98	9,542.01	106.97	90.202		
8,400.00	6,776.16	7,079.52	6,952.07	100.37	29.93	123.64	-7,447.26	1,184.50	9,689.93	9,581.95	107.99	89.732		
8,500.00	6,852.13	7,138.88	7,011.42	101.78	30.09	123.85	-7,446.37	1,184.60	9,731.27	9,622.30	108.98	89.298		
8,600.00	6,928.11	7,198.15	7,070.69	103.20	30.26	124.05	-7,445.58	1,184.68	9,772.99	9,663.04	109.95	88.882		
8,700.00	7,004.09	7,314.36	7,186.89	104.61	30.58	124.46	-7,444.02	1,185.10	9,814.91	9,703.78	111.12	88.323		
8,800.00	7,080.06	7,408.12	7,280.63	106.02	30.84	124.78	-7,442.52	1,185.87	9,856.74	9,744.52	112.21	87.840		
8,900.00	7,156.04	7,463.73	7,336.24	107.44	30.99	124.97	-7,441.68	1,186.31	9,898.89	9,785.73	113.16	87.475		
9,000.00	7,232.02	7,519.15	7,391.65	108.85	31.15	125.16	-7,440.94	1,186.66	9,941.44	9,827.34	114.10	87.126		
9,104.68	7,311.55	7,585.06	7,457.55	110.33	31.33	125.38	-7,440.17	1,186.96	9,986.39	9,871.28	115.11	86.754		
9,650.00	7,712.08	7,970.13	7,842.58	115.88	32.41	70.53	-7,436.39	1,190.04	9,987.25	9,866.29	120.96	82.567		
9,700.00	7,740.76	7,992.85	7,865.31	116.08	32.48	68.88	-7,436.28	1,190.38	9,964.29	9,842.92	121.37	82.096		
9,750.00	7,767.01	8,013.69	7,886.14	116.23	32.53	67.87	-7,436.20	1,190.71	9,937.92	9,816.17	121.75	81.624		
9,800.00	7,790.63	8,032.48	7,904.92	116.33	32.58	67.52	-7,436.14	1,191.02	9,908.32	9,786.22	122.09	81.153		
9,850.00	7,811.44	8,049.06	7,921.50	116.38	32.63	67.84	-7,436.09	1,191.29	9,875.70	9,753.30	122.40	80.684		
9,900.00	7,829.28	8,063.30	7,935.75	116.38	32.67	68.92	-7,436.07	1,191.53	9,840.31	9,717.64	122.67	80.219		
9,950.00	7,844.01	8,075.09	7,947.53	116.35	32.70	70.86	-7,436.05	1,191.74	9,802.40	9,679.50	122.90	79.759		
10,000.00	7,855.52	8,086.62	7,959.06	116.28	32.73	73.85	-7,436.04	1,191.94	9,762.23	9,639.13	123.10	79.300		
10,050.00	7,863.72	8,096.66	7,969.10	116.18	32.76	78.13	-7,436.02	1,192.11	9,720.10	9,596.82	123.28	78.846		
10,100.00	7,868.56	8,102.52	7,974.96	116.06	32.78	84.02	-7,436.01	1,192.21	9,676.31	9,552.89	123.42	78.403		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
10,145.94	7,870.00	8,104.19	7,976.63	115.92	32.78	91.20	-7,436.01	1,192.24	9,634.88	9,511.37	123.52	78.006		
10,200.00	7,870.00	8,104.08	7,976.52	115.76	32.78	91.20	-7,436.01	1,192.24	9,585.60	9,461.98	123.61	77.545		
10,300.00	7,870.00	8,103.87	7,976.31	115.46	32.78	91.19	-7,436.01	1,192.23	9,494.56	9,370.76	123.80	76.694		
10,400.00	7,870.00	8,103.66	7,976.10	115.18	32.78	91.19	-7,436.01	1,192.23	9,403.71	9,279.72	123.99	75.844		
10,500.00	7,870.00	8,103.45	7,975.89	114.91	32.78	91.19	-7,436.01	1,192.23	9,313.05	9,188.87	124.18	74.993		
10,600.00	7,870.00	8,103.24	7,975.68	114.65	32.78	91.19	-7,436.01	1,192.22	9,222.58	9,098.19	124.39	74.144		
10,700.00	7,870.00	8,103.04	7,975.48	114.41	32.78	91.18	-7,436.01	1,192.22	9,132.31	9,007.71	124.60	73.295		
10,800.00	7,870.00	8,102.83	7,975.27	114.17	32.78	91.18	-7,436.01	1,192.21	9,042.24	8,917.43	124.81	72.447		
10,900.00	7,870.00	8,102.63	7,975.07	113.95	32.78	91.18	-7,436.01	1,192.21	8,952.39	8,827.35	125.04	71.599		
11,000.00	7,870.00	8,102.43	7,974.87	113.75	32.78	91.17	-7,436.01	1,192.21	8,862.75	8,737.49	125.26	70.752		
11,100.00	7,870.00	8,102.23	7,974.67	113.55	32.78	91.17	-7,436.01	1,192.20	8,773.34	8,647.83	125.50	69.906		
11,200.00	7,870.00	8,102.03	7,974.47	113.37	32.78	91.17	-7,436.01	1,192.20	8,684.15	8,558.41	125.75	69.061		
11,300.00	7,870.00	8,101.83	7,974.27	113.20	32.78	91.16	-7,436.01	1,192.20	8,595.21	8,469.21	126.00	68.217		
11,400.00	7,870.00	8,101.63	7,974.07	113.04	32.77	91.16	-7,436.01	1,192.19	8,506.51	8,380.25	126.26	67.374		
11,500.00	7,870.00	8,101.44	7,973.88	112.89	32.77	91.16	-7,436.02	1,192.19	8,418.06	8,291.54	126.53	66.532		
11,600.00	7,870.00	8,101.24	7,973.68	112.76	32.77	91.16	-7,436.02	1,192.19	8,329.88	8,203.08	126.80	65.692		
11,700.00	7,870.00	8,101.05	7,973.49	112.64	32.77	91.15	-7,436.02	1,192.18	8,241.96	8,114.88	127.09	64.853		
11,800.00	7,870.00	8,100.86	7,973.30	112.53	32.77	91.15	-7,436.02	1,192.18	8,154.33	8,026.94	127.38	64.015		
11,900.00	7,870.00	8,100.67	7,973.11	112.44	32.77	91.15	-7,436.02	1,192.18	8,066.98	7,939.29	127.69	63.179		
12,000.00	7,870.00	8,100.48	7,972.92	112.36	32.77	91.15	-7,436.02	1,192.17	7,979.93	7,851.93	128.00	62.344		
12,100.00	7,870.00	8,100.29	7,972.73	112.29	32.77	91.14	-7,436.02	1,192.17	7,893.18	7,764.86	128.32	61.511		
12,200.00	7,870.00	8,100.11	7,972.54	112.24	32.77	91.14	-7,436.02	1,192.17	7,806.75	7,678.10	128.65	60.680		
12,300.00	7,870.00	8,099.92	7,972.36	112.20	32.77	91.14	-7,436.02	1,192.16	7,720.65	7,591.66	129.00	59.852		
12,400.00	7,870.00	8,099.73	7,972.17	112.17	32.77	91.13	-7,436.02	1,192.16	7,634.89	7,505.54	129.35	59.025		
12,500.00	7,870.00	8,099.55	7,971.99	112.16	32.77	91.13	-7,436.02	1,192.16	7,549.48	7,419.76	129.72	58.200		
12,600.00	7,870.00	8,099.37	7,971.81	112.17	32.77	91.13	-7,436.02	1,192.16	7,464.43	7,334.34	130.09	57.378		
12,700.00	7,870.00	8,099.19	7,971.63	112.19	32.77	91.13	-7,436.02	1,192.15	7,379.76	7,249.28	130.48	56.558		
12,800.00	7,870.00	8,099.01	7,971.45	112.23	32.77	91.12	-7,436.02	1,192.15	7,295.47	7,164.59	130.88	55.741		
12,900.00	7,870.00	8,098.83	7,971.27	112.28	32.77	91.12	-7,436.02	1,192.15	7,211.59	7,080.29	131.29	54.927		
13,000.00	7,870.00	8,098.65	7,971.09	112.36	32.77	91.12	-7,436.02	1,192.14	7,128.12	6,996.40	131.72	54.116		
13,100.00	7,870.00	8,098.47	7,970.91	112.45	32.77	91.12	-7,436.02	1,192.14	7,045.08	6,912.92	132.16	53.309		
13,200.00	7,870.00	8,098.30	7,970.74	112.56	32.77	91.11	-7,436.02	1,192.14	6,962.49	6,829.88	132.61	52.504		
13,300.00	7,870.00	8,098.12	7,970.56	112.68	32.77	91.11	-7,436.02	1,192.13	6,880.36	6,747.28	133.07	51.703		
13,400.00	7,870.00	8,097.95	7,970.39	112.83	32.76	91.11	-7,436.02	1,192.13	6,798.71	6,665.15	133.55	50.906		
13,500.00	7,870.00	8,097.78	7,970.21	113.00	32.76	91.11	-7,436.02	1,192.13	6,717.55	6,583.50	134.05	50.113		
13,600.00	7,870.00	8,097.60	7,970.04	113.19	32.76	91.10	-7,436.02	1,192.13	6,636.91	6,502.35	134.56	49.324		
13,700.00	7,870.00	8,097.43	7,969.87	113.40	32.76	91.10	-7,436.02	1,192.12	6,556.80	6,421.72	135.08	48.539		
13,800.00	7,870.00	8,097.26	7,969.70	113.63	32.76	91.10	-7,436.02	1,192.12	6,477.25	6,341.63	135.62	47.759		
13,900.00	7,870.00	8,097.09	7,969.53	113.89	32.76	91.10	-7,436.02	1,192.12	6,398.27	6,262.09	136.18	46.984		
14,000.00	7,870.00	8,096.93	7,969.37	114.18	32.76	91.09	-7,436.02	1,192.11	6,319.88	6,183.13	136.75	46.215		
14,100.00	7,870.00	8,096.76	7,969.20	114.48	32.76	91.09	-7,436.02	1,192.11	6,242.12	6,104.78	137.34	45.450		
14,200.00	7,870.00	8,096.59	7,969.03	114.82	32.76	91.09	-7,436.02	1,192.11	6,164.99	6,027.05	137.95	44.692		
14,300.00	7,870.00	8,096.43	7,968.87	115.18	32.76	91.09	-7,436.02	1,192.11	6,088.53	5,949.96	138.57	43.939		
14,400.00	7,870.00	8,096.27	7,968.70	115.57	32.76	91.08	-7,436.02	1,192.10	6,012.76	5,873.55	139.21	43.192		
14,500.00	7,870.00	8,096.10	7,968.54	115.99	32.76	91.08	-7,436.02	1,192.10	5,937.71	5,797.84	139.87	42.452		
14,600.00	7,870.00	8,095.94	7,968.38	116.44	32.76	91.08	-7,436.02	1,192.10	5,863.40	5,722.86	140.54	41.719		
14,700.00	7,870.00	8,095.78	7,968.22	116.92	32.76	91.08	-7,436.02	1,192.09	5,789.87	5,648.63	141.24	40.994		
14,800.00	7,870.00	8,095.62	7,968.06	117.44	32.76	91.07	-7,436.02	1,192.09	5,717.13	5,575.18	141.95	40.276		
14,900.00	7,870.00	8,095.46	7,967.90	117.98	32.76	91.07	-7,436.02	1,192.09	5,645.24	5,502.56	142.68	39.565		
15,000.00	7,870.00	8,095.30	7,967.74	118.56	32.76	91.07	-7,436.02	1,192.09	5,574.21	5,430.78	143.43	38.863		
15,100.00	7,870.00	8,095.14	7,967.58	119.17	32.76	91.07	-7,436.02	1,192.08	5,504.08	5,359.88	144.20	38.170		
15,200.00	7,870.00	8,094.99	7,967.43	119.81	32.76	91.07	-7,436.03	1,192.08	5,434.88	5,289.90	144.99	37.486		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
15,300.00	7,870.00	8,094.83	7,967.27	120.48	32.76	91.06	-7,436.03	1,192.08	5,366.66	5,220.87	145.79	36.811		
15,400.00	7,870.00	8,094.68	7,967.12	121.19	32.76	91.06	-7,436.03	1,192.07	5,299.45	5,152.83	146.61	36.146		
15,500.00	7,870.00	8,094.52	7,966.96	121.93	32.76	91.06	-7,436.03	1,192.07	5,233.28	5,085.83	147.45	35.491		
15,600.00	7,870.00	8,094.37	7,966.81	122.71	32.75	91.06	-7,436.03	1,192.07	5,168.20	5,019.89	148.31	34.847		
15,700.00	7,870.00	8,094.22	7,966.66	123.52	32.75	91.05	-7,436.03	1,192.07	5,104.25	4,955.07	149.19	34.214		
15,800.00	7,870.00	8,094.07	7,966.50	124.36	32.75	91.05	-7,436.03	1,192.06	5,041.48	4,891.40	150.08	33.592		
15,900.00	7,870.00	8,093.92	7,966.35	125.23	32.75	91.05	-7,436.03	1,192.06	4,979.92	4,828.93	150.99	32.983		
16,000.00	7,870.00	8,093.77	7,966.20	126.14	32.75	91.05	-7,436.03	1,192.06	4,919.62	4,767.71	151.91	32.386		
16,100.00	7,870.00	8,093.62	7,966.06	127.07	32.75	91.05	-7,436.03	1,192.06	4,860.63	4,707.79	152.84	31.801		
16,200.00	7,870.00	8,093.47	7,965.91	128.04	32.75	91.04	-7,436.03	1,192.05	4,803.00	4,649.21	153.79	31.230		
16,300.00	7,870.00	8,093.32	7,965.76	129.04	32.75	91.04	-7,436.03	1,192.05	4,746.78	4,592.03	154.75	30.673		
16,400.00	7,870.00	8,093.17	7,965.61	130.06	32.75	91.04	-7,436.03	1,192.05	4,692.01	4,536.29	155.72	30.130		
16,500.00	7,870.00	8,093.03	7,965.47	131.11	32.75	91.04	-7,436.03	1,192.05	4,638.76	4,482.06	156.70	29.602		
16,600.00	7,870.00	8,092.88	7,965.32	132.19	32.75	91.04	-7,436.03	1,192.04	4,587.06	4,429.38	157.69	29.089		
16,700.00	7,870.00	8,092.78	7,965.22	133.29	32.75	91.03	-7,436.03	1,192.05	4,536.99	4,378.31	158.68	28.592		
16,800.00	7,870.00	8,092.72	7,965.16	134.42	32.75	91.03	-7,436.03	1,192.04	4,488.58	4,328.90	159.67	28.111		
16,900.00	7,870.00	8,092.66	7,965.10	135.57	32.75	91.03	-7,436.03	1,192.04	4,441.89	4,281.22	160.67	27.646		
17,000.00	7,870.00	8,092.60	7,965.04	136.75	32.75	91.03	-7,436.03	1,192.04	4,396.99	4,235.32	161.66	27.198		
17,100.00	7,870.00	8,092.53	7,964.97	137.94	32.75	91.03	-7,436.03	1,192.04	4,353.92	4,191.26	162.65	26.768		
17,200.00	7,870.00	8,092.47	7,964.91	139.16	32.75	91.03	-7,436.03	1,192.04	4,312.73	4,149.10	163.63	26.356		
17,300.00	7,870.00	8,092.41	7,964.85	140.39	32.75	91.03	-7,436.03	1,192.04	4,273.49	4,108.89	164.61	25.962		
17,400.00	7,870.00	8,092.34	7,964.78	141.65	32.75	91.03	-7,436.03	1,192.04	4,236.25	4,070.69	165.57	25.586		
17,500.00	7,870.00	8,092.28	7,964.72	142.92	32.75	91.03	-7,436.03	1,192.04	4,201.06	4,034.55	166.51	25.230		
17,600.00	7,870.00	8,092.22	7,964.66	144.21	32.75	91.03	-7,436.03	1,192.04	4,167.97	4,000.54	167.43	24.893		
17,700.00	7,870.00	8,092.15	7,964.59	145.52	32.75	91.02	-7,436.03	1,192.03	4,137.04	3,968.70	168.33	24.576		
17,800.00	7,870.00	8,092.09	7,964.52	146.84	32.75	91.02	-7,436.03	1,192.03	4,108.30	3,939.10	169.21	24.280		
17,900.00	7,870.00	8,092.02	7,964.46	148.18	32.75	91.02	-7,436.03	1,192.03	4,081.82	3,911.77	170.05	24.003		
18,000.00	7,870.00	8,091.95	7,964.39	149.54	32.75	91.02	-7,436.03	1,192.03	4,057.63	3,886.76	170.87	23.747		
18,100.00	7,870.00	8,091.89	7,964.32	150.90	32.75	91.02	-7,436.03	1,192.03	4,035.77	3,864.12	171.64	23.513		
18,200.00	7,870.00	8,091.82	7,964.26	152.28	32.75	91.02	-7,436.03	1,192.03	4,016.28	3,843.90	172.38	23.299		
18,300.00	7,870.00	8,091.75	7,964.19	153.67	32.75	91.02	-7,436.03	1,192.03	3,999.20	3,826.13	173.07	23.107		
18,400.00	7,870.00	8,091.68	7,964.12	155.07	32.75	91.02	-7,436.03	1,192.03	3,984.55	3,810.83	173.72	22.937		
18,500.00	7,870.00	8,091.61	7,964.05	156.49	32.75	91.02	-7,436.03	1,192.02	3,972.37	3,798.05	174.32	22.788		
18,600.00	7,870.00	8,091.54	7,963.98	157.91	32.75	91.02	-7,436.03	1,192.02	3,962.68	3,787.81	174.87	22.661		
18,700.00	7,870.00	8,091.47	7,963.91	159.35	32.75	91.01	-7,436.03	1,192.02	3,955.49	3,780.13	175.37	22.556		
18,800.00	7,870.00	8,091.40	7,963.84	160.79	32.75	91.01	-7,436.03	1,192.02	3,950.82	3,775.02	175.81	22.473		
18,900.00	7,870.00	8,091.33	7,963.77	162.25	32.75	91.01	-7,436.03	1,192.02	3,948.68	3,772.49	176.19	22.411		
18,934.58	7,870.00	8,091.30	7,963.74	162.75	32.75	91.01	-7,436.03	1,192.02	3,948.53	3,772.22	176.31	22.395 CC, ES		
19,000.00	7,870.00	8,091.25	7,963.69	163.71	32.75	91.01	-7,436.03	1,192.02	3,949.07	3,772.55	176.52	22.372		
19,100.00	7,870.00	8,091.18	7,963.62	165.18	32.75	91.01	-7,436.03	1,192.02	3,951.99	3,775.21	176.78	22.355 SF		
19,200.00	7,870.00	8,091.11	7,963.55	166.66	32.75	91.01	-7,436.03	1,192.02	3,957.44	3,780.45	176.99	22.359		
19,300.00	7,870.00	8,091.03	7,963.47	168.15	32.75	91.01	-7,436.03	1,192.01	3,965.40	3,788.26	177.14	22.385		
19,400.00	7,870.00	8,090.96	7,963.40	169.65	32.75	91.01	-7,436.03	1,192.01	3,975.86	3,798.63	177.23	22.433		
19,500.00	7,870.00	8,090.88	7,963.32	171.15	32.74	91.01	-7,436.03	1,192.01	3,988.81	3,811.54	177.26	22.502		
19,600.00	7,870.00	8,090.81	7,963.25	172.66	32.74	91.00	-7,436.03	1,192.01	4,004.21	3,826.97	177.24	22.593		
19,700.00	7,870.00	8,090.73	7,963.17	174.18	32.74	91.00	-7,436.03	1,192.01	4,022.03	3,844.88	177.15	22.704		
19,800.00	7,870.00	8,090.65	7,963.09	175.70	32.74	91.00	-7,436.03	1,192.01	4,042.26	3,865.24	177.02	22.836		
19,889.26	7,870.00	8,090.58	7,963.02	177.06	32.74	91.00	-7,436.03	1,192.01	4,062.30	3,885.45	176.85	22.971		

Anticollision Report

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

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	70.47	70.47	0.00	0.11	163.80	-7,136.26	2,073.43	7,431.52					
100.00	100.00	125.10	125.09	0.13	0.29	163.81	-7,136.32	2,072.52	7,431.18	7,430.75	0.43	N/A		
102.26	102.26	126.27	126.26	0.14	0.30	163.81	-7,136.32	2,072.51	7,431.18	7,430.74	0.44	N/A		
200.00	200.00	187.72	187.70	0.49	0.52	163.81	-7,136.82	2,071.52	7,431.47	7,430.46	1.01	7,347.174		
300.00	300.00	292.33	292.23	0.85	0.90	163.84	-7,138.37	2,067.91	7,431.93	7,430.18	1.75	4,246.076		
400.00	399.98	371.70	371.43	1.21	1.19	95.73	-7,140.16	2,062.99	7,432.58	7,430.18	2.40	3,097.349		
500.00	499.84	420.16	419.71	1.56	1.38	95.75	-7,141.78	2,059.22	7,434.16	7,431.22	2.94	2,528.388		
600.00	599.45	440.00	439.46	1.93	1.45	95.73	-7,142.58	2,057.52	7,436.90	7,433.52	3.38	2,197.550		
700.00	698.70	480.93	480.16	2.32	1.62	95.71	-7,144.70	2,053.77	7,440.85	7,436.92	3.93	1,893.344		
800.00	797.47	533.00	531.84	2.72	1.82	95.72	-7,148.46	2,048.57	7,446.40	7,441.86	4.54	1,639.535		
900.00	895.62	533.00	531.84	3.16	1.82	95.59	-7,148.46	2,048.57	7,452.95	7,447.97	4.98	1,497.661		
1,000.00	993.06	567.73	566.23	3.63	1.97	95.52	-7,151.51	2,044.85	7,460.96	7,455.38	5.59	1,335.542		
1,100.00	1,089.64	625.00	622.85	4.14	2.21	95.51	-7,157.18	2,038.35	7,470.26	7,463.93	6.33	1,180.469		
1,200.00	1,185.27	625.00	622.85	4.70	2.21	95.30	-7,157.18	2,038.35	7,480.66	7,473.78	6.88	1,087.789		
1,300.00	1,279.82	672.57	669.75	5.31	2.42	95.23	-7,162.55	2,032.49	7,492.30	7,484.62	7.68	975.803		
1,400.00	1,373.17	717.00	713.42	5.97	2.61	95.15	-7,168.15	2,026.53	7,505.25	7,496.74	8.52	881.172		
1,500.00	1,465.21	717.00	713.42	6.69	2.61	94.86	-7,168.15	2,026.53	7,519.48	7,510.26	9.22	815.804		
1,600.00	1,555.84	754.35	749.99	7.47	2.79	94.71	-7,173.39	2,021.10	7,534.97	7,524.82	10.15	742.626		
1,700.00	1,644.94	776.41	771.54	8.31	2.90	94.48	-7,176.75	2,017.70	7,551.84	7,540.78	11.06	682.605		
1,800.00	1,732.39	809.00	803.25	9.23	3.05	94.27	-7,182.07	2,012.40	7,570.08	7,557.99	12.09	626.171		
1,900.00	1,818.11	809.00	803.25	10.21	3.05	93.87	-7,182.07	2,012.40	7,589.60	7,576.58	13.02	582.735		
2,000.00	1,901.97	809.00	803.25	11.26	3.05	93.44	-7,182.07	2,012.40	7,610.62	7,596.60	14.02	542.843		
2,100.00	1,983.88	847.34	840.41	12.38	3.25	93.20	-7,188.91	2,005.93	7,632.67	7,617.40	15.27	499.894		
2,200.00	2,063.74	861.83	854.42	13.57	3.33	92.80	-7,191.67	2,003.46	7,656.18	7,639.72	16.46	465.121		
2,300.00	2,141.45	898.00	889.29	14.84	3.51	92.51	-7,198.98	1,997.24	7,681.11	7,663.29	17.82	430.953		
2,327.78	2,162.65	898.00	889.29	15.21	3.51	92.37	-7,198.98	1,997.24	7,688.18	7,670.02	18.16	423.323		
2,400.00	2,217.51	898.00	889.29	16.17	3.51	92.37	-7,198.98	1,997.24	7,707.00	7,687.95	19.05	404.599		
2,500.00	2,293.49	898.00	889.29	17.51	3.51	92.37	-7,198.98	1,997.24	7,734.10	7,713.82	20.28	381.367		
2,600.00	2,369.47	898.00	889.29	18.86	3.51	92.37	-7,198.98	1,997.24	7,762.40	7,740.89	21.51	360.868		
2,700.00	2,445.45	939.44	929.11	20.22	3.74	92.62	-7,207.92	1,990.06	7,791.53	7,768.57	22.96	339.365		
2,800.00	2,521.42	957.36	946.30	21.59	3.84	92.73	-7,211.94	1,986.95	7,821.81	7,797.53	24.28	322.183		
2,900.00	2,597.40	975.14	963.33	22.97	3.94	92.84	-7,216.01	1,983.86	7,853.11	7,827.52	25.59	306.899		
3,000.00	2,673.38	1,011.00	997.61	24.34	4.14	93.07	-7,224.48	1,977.62	7,885.50	7,858.51	26.99	292.185		
3,100.00	2,749.36	1,011.00	997.61	25.73	4.14	93.07	-7,224.48	1,977.62	7,918.76	7,890.57	28.19	280.932		
3,200.00	2,825.33	1,011.00	997.61	27.11	4.14	93.07	-7,224.48	1,977.62	7,953.14	7,923.76	29.38	270.731		
3,300.00	2,901.31	1,044.14	1,029.22	28.50	4.34	93.27	-7,232.63	1,971.90	7,988.39	7,957.65	30.74	259.883		
3,400.00	2,977.29	1,060.94	1,045.22	29.90	4.44	93.37	-7,236.87	1,969.04	8,024.67	7,992.68	32.00	250.791		
3,500.00	3,053.27	1,100.00	1,082.35	31.29	4.67	93.61	-7,247.05	1,962.46	8,062.02	8,028.64	33.38	241.554		
3,600.00	3,129.24	1,100.00	1,082.35	32.69	4.67	93.61	-7,247.05	1,962.46	8,100.11	8,065.59	34.52	234.651		
3,700.00	3,205.22	1,100.00	1,082.35	34.08	4.67	93.61	-7,247.05	1,962.46	8,139.26	8,103.61	35.65	228.305		
3,800.00	3,281.20	1,132.29	1,112.99	35.48	4.86	93.81	-7,255.76	1,957.15	8,179.26	8,142.30	36.95	221.345		
3,900.00	3,357.18	1,151.75	1,131.44	36.88	4.98	93.93	-7,261.11	1,954.02	8,220.17	8,182.00	38.17	215.358		
4,000.00	3,433.15	1,187.00	1,164.81	38.29	5.19	94.14	-7,271.02	1,948.50	8,262.01	8,222.54	39.47	209.337		
4,100.00	3,509.13	1,187.00	1,164.81	39.69	5.19	94.14	-7,271.02	1,948.50	8,304.63	8,264.08	40.55	204.816		
4,200.00	3,585.11	1,187.00	1,164.81	41.09	5.19	94.14	-7,271.02	1,948.50	8,348.22	8,306.61	41.61	200.624		
4,300.00	3,661.08	1,223.34	1,199.12	42.50	5.42	94.36	-7,281.55	1,942.81	8,392.52	8,349.64	42.88	195.727		
4,400.00	3,737.06	1,239.57	1,214.40	43.90	5.52	94.46	-7,286.36	1,940.21	8,437.74	8,393.73	44.01	191.708		
4,500.00	3,813.04	1,275.00	1,247.66	45.31	5.75	94.67	-7,297.11	1,934.39	8,483.87	8,438.62	45.25	187.483		
4,600.00	3,889.02	1,275.00	1,247.66	46.71	5.75	94.67	-7,297.11	1,934.39	8,530.68	8,484.42	46.26	184.402		
4,700.00	3,964.99	1,295.50	1,266.85	48.12	5.88	94.79	-7,303.45	1,930.98	8,578.35	8,530.96	47.38	181.040		
4,800.00	4,040.97	1,322.05	1,291.68	49.53	6.06	94.95	-7,311.73	1,926.57	8,626.75	8,578.22	48.53	177.758		
4,900.00	4,116.95	1,362.00	1,329.01	50.94	6.32	95.19	-7,324.34	1,919.95	8,675.89	8,626.14	49.75	174.389		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,192.93	1,379.13	1,345.00	52.35	6.44	95.30	-7,329.79	1,917.10	8,725.69	8,674.88	50.81	171.717		
5,100.00	4,268.90	1,413.97	1,377.48	53.76	6.67	95.51	-7,340.92	1,911.20	8,776.17	8,724.19	51.98	168.842		
5,200.00	4,344.88	1,449.00	1,410.10	55.16	6.91	95.72	-7,352.17	1,905.12	8,827.28	8,774.15	53.13	166.138		
5,300.00	4,420.86	1,449.00	1,410.10	56.57	6.91	95.72	-7,352.17	1,905.12	8,879.12	8,825.08	54.05	164.285		
5,400.00	4,496.84	1,480.34	1,439.21	57.98	7.13	95.90	-7,362.37	1,899.59	8,931.60	8,876.45	55.15	161.938		
5,500.00	4,572.81	1,495.92	1,453.65	59.39	7.24	96.00	-7,367.53	1,896.82	8,984.84	8,928.69	56.15	160.029		
5,600.00	4,648.79	1,537.00	1,491.60	60.81	7.53	96.24	-7,381.40	1,889.43	9,038.90	8,981.61	57.29	157.767		
5,700.00	4,724.77	1,537.00	1,491.60	62.22	7.53	96.24	-7,381.40	1,889.43	9,093.43	9,035.28	58.15	156.368		
5,800.00	4,800.74	1,537.00	1,491.60	63.63	7.53	96.24	-7,381.40	1,889.43	9,148.74	9,089.73	59.00	155.059		
5,900.00	4,876.72	1,537.00	1,491.60	65.04	7.53	96.24	-7,381.40	1,889.43	9,204.79	9,144.96	59.83	153.836		
6,000.00	4,952.70	1,537.00	1,491.60	66.45	7.53	96.24	-7,381.40	1,889.43	9,261.59	9,200.93	60.65	152.694		
6,100.00	5,028.68	1,576.18	1,527.62	67.86	7.82	96.48	-7,395.07	1,882.28	9,318.76	9,257.02	61.73	150.953		
6,200.00	5,104.65	1,587.74	1,538.21	69.27	7.90	96.54	-7,399.20	1,880.15	9,376.75	9,314.15	62.61	149.770		
6,300.00	5,180.63	1,624.00	1,571.29	70.69	8.17	96.76	-7,412.42	1,873.44	9,435.54	9,371.89	63.64	148.256		
6,400.00	5,256.61	1,624.00	1,571.29	72.10	8.17	96.76	-7,412.42	1,873.44	9,494.71	9,430.30	64.41	147.403		
6,500.00	5,332.59	1,624.00	1,571.29	73.51	8.17	96.76	-7,412.42	1,873.44	9,554.56	9,489.39	65.17	146.609		
6,600.00	5,408.56	1,624.00	1,571.29	74.92	8.17	96.76	-7,412.42	1,873.44	9,615.08	9,549.17	65.91	145.873		
6,700.00	5,484.54	1,653.67	1,598.26	76.34	8.40	96.94	-7,423.49	1,867.92	9,676.12	9,609.26	66.86	144.722		
6,800.00	5,560.52	1,670.02	1,613.09	77.75	8.52	97.03	-7,429.67	1,864.89	9,737.75	9,670.05	67.70	143.838		
6,900.00	5,636.50	1,711.00	1,650.17	79.16	8.84	97.27	-7,445.39	1,857.33	9,800.02	9,731.32	68.71	142.633		
7,000.00	5,712.47	1,711.00	1,650.17	80.57	8.84	97.27	-7,445.39	1,857.33	9,862.66	9,793.26	69.41	142.101		
7,100.00	5,788.45	1,725.56	1,663.32	81.99	8.95	97.36	-7,451.03	1,854.64	9,925.90	9,855.70	70.20	141.392		
7,200.00	5,864.43	1,756.40	1,691.15	83.40	9.19	97.54	-7,463.01	1,848.86	9,989.61	9,918.50	71.11	140.487		
11,100.00	7,870.00	8,501.69	8,130.81	113.55	43.69	93.36	-8,716.20	1,100.90	9,970.92	9,842.31	128.61	77.531		
11,200.00	7,870.00	8,500.43	8,129.56	113.37	43.69	93.34	-8,716.22	1,100.88	9,879.58	9,750.71	128.87	76.662		
11,300.00	7,870.00	8,499.17	8,128.29	113.20	43.69	93.32	-8,716.24	1,100.85	9,788.42	9,659.27	129.15	75.794		
11,400.00	7,870.00	8,497.89	8,127.02	113.04	43.68	93.31	-8,716.26	1,100.83	9,697.43	9,568.00	129.43	74.925		
11,500.00	7,870.00	8,496.61	8,125.74	112.89	43.68	93.29	-8,716.29	1,100.81	9,606.62	9,476.90	129.72	74.058		
11,600.00	7,870.00	8,495.32	8,124.45	112.76	43.68	93.27	-8,716.31	1,100.78	9,515.99	9,385.97	130.02	73.190		
11,700.00	7,870.00	8,494.02	8,123.15	112.64	43.68	93.25	-8,716.33	1,100.76	9,425.55	9,295.23	130.32	72.324		
11,800.00	7,870.00	8,492.72	8,121.84	112.53	43.67	93.23	-8,716.36	1,100.73	9,335.31	9,204.67	130.64	71.458		
11,900.00	7,870.00	8,491.40	8,120.53	112.44	43.67	93.21	-8,716.38	1,100.71	9,245.27	9,114.30	130.97	70.592		
12,000.00	7,870.00	8,490.07	8,119.20	112.36	43.67	93.19	-8,716.40	1,100.69	9,155.43	9,024.13	131.30	69.727		
12,100.00	7,870.00	8,488.74	8,117.87	112.29	43.67	93.18	-8,716.43	1,100.66	9,065.81	8,934.16	131.65	68.864		
12,200.00	7,870.00	8,487.40	8,116.53	112.24	43.66	93.16	-8,716.45	1,100.64	8,976.40	8,844.40	132.00	68.001		
12,300.00	7,870.00	8,486.05	8,115.17	112.20	43.66	93.14	-8,716.48	1,100.61	8,887.22	8,754.85	132.37	67.139		
12,400.00	7,870.00	8,484.68	8,113.81	112.17	43.66	93.12	-8,716.50	1,100.58	8,798.28	8,665.53	132.75	66.278		
12,500.00	7,870.00	8,483.31	8,112.44	112.16	43.66	93.10	-8,716.53	1,100.56	8,709.57	8,576.43	133.14	65.418		
12,600.00	7,870.00	8,481.93	8,111.06	112.17	43.65	93.08	-8,716.55	1,100.53	8,621.11	8,487.57	133.54	64.560		
12,700.00	7,870.00	8,480.54	8,109.67	112.19	43.65	93.06	-8,716.58	1,100.51	8,532.90	8,398.96	133.95	63.703		
12,800.00	7,870.00	8,479.14	8,108.27	112.23	43.65	93.04	-8,716.61	1,100.48	8,444.96	8,310.59	134.37	62.848		
12,900.00	7,870.00	8,477.73	8,106.87	112.28	43.65	93.02	-8,716.63	1,100.46	8,357.29	8,222.48	134.81	61.994		
13,000.00	7,870.00	8,476.31	8,105.45	112.36	43.64	93.00	-8,716.66	1,100.43	8,269.89	8,134.64	135.26	61.141		
13,100.00	7,870.00	8,474.89	8,104.02	112.45	43.64	92.98	-8,716.69	1,100.40	8,182.79	8,047.07	135.72	60.291		
13,200.00	7,870.00	8,473.45	8,102.58	112.56	43.64	92.96	-8,716.71	1,100.38	8,095.98	7,959.78	136.20	59.443		
13,300.00	7,870.00	8,472.00	8,101.13	112.68	43.63	92.94	-8,716.74	1,100.35	8,009.48	7,872.79	136.69	58.596		
13,400.00	7,870.00	8,470.54	8,099.67	112.83	43.63	92.92	-8,716.77	1,100.32	7,923.30	7,786.11	137.20	57.752		
13,500.00	7,870.00	8,469.07	8,098.20	113.00	43.63	92.90	-8,716.80	1,100.29	7,837.45	7,699.73	137.72	56.910		
13,600.00	7,870.00	8,467.59	8,096.72	113.19	43.63	92.88	-8,716.83	1,100.27	7,751.93	7,613.68	138.25	56.071		
13,700.00	7,870.00	8,466.10	8,095.23	113.40	43.62	92.85	-8,716.86	1,100.24	7,666.77	7,527.96	138.80	55.234		
13,800.00	7,870.00	8,464.59	8,093.73	113.63	43.62	92.83	-8,716.88	1,100.21	7,581.96	7,442.59	139.37	54.400		
13,900.00	7,870.00	8,463.08	8,092.22	113.89	43.62	92.81	-8,716.91	1,100.18	7,497.53	7,357.57	139.96	53.569		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 0-8-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,000.00	7,870.00	8,461.56	8,090.70	114.18	43.61	92.79	-8,716.94	1,100.15	7,413.49	7,272.93	140.56	52.742		
14,100.00	7,870.00	8,460.02	8,089.16	114.48	43.61	92.77	-8,716.97	1,100.13	7,329.85	7,188.67	141.18	51.917		
14,200.00	7,870.00	8,458.48	8,087.62	114.82	43.61	92.75	-8,717.00	1,100.10	7,246.62	7,104.80	141.82	51.096		
14,300.00	7,870.00	8,456.92	8,086.06	115.18	43.61	92.72	-8,717.03	1,100.07	7,163.82	7,021.34	142.48	50.279		
14,400.00	7,870.00	8,455.35	8,084.49	115.57	43.60	92.70	-8,717.07	1,100.04	7,081.47	6,938.31	143.16	49.466		
14,500.00	7,870.00	8,453.77	8,082.91	115.99	43.60	92.68	-8,717.10	1,100.01	6,999.57	6,855.71	143.86	48.656		
14,600.00	7,870.00	8,452.18	8,081.32	116.44	43.60	92.66	-8,717.13	1,099.98	6,918.15	6,773.57	144.58	47.851		
14,700.00	7,870.00	8,450.58	8,079.72	116.92	43.59	92.63	-8,717.16	1,099.95	6,837.22	6,691.91	145.32	47.051		
14,800.00	7,870.00	8,448.96	8,078.10	117.44	43.59	92.61	-8,717.19	1,099.92	6,756.80	6,610.73	146.08	46.255		
14,900.00	7,870.00	8,447.33	8,076.48	117.98	43.59	92.59	-8,717.23	1,099.89	6,676.91	6,530.06	146.86	45.465		
15,000.00	7,870.00	8,445.69	8,074.84	118.56	43.58	92.57	-8,717.26	1,099.86	6,597.57	6,449.91	147.66	44.680		
15,100.00	7,870.00	8,444.04	8,073.18	119.17	43.58	92.54	-8,717.29	1,099.83	6,518.80	6,370.31	148.49	43.900		
15,200.00	7,870.00	8,442.38	8,071.52	119.81	43.58	92.52	-8,717.33	1,099.80	6,440.61	6,291.27	149.34	43.126		
15,300.00	7,870.00	8,440.70	8,069.84	120.48	43.57	92.49	-8,717.36	1,099.77	6,363.04	6,212.82	150.22	42.358		
15,400.00	7,870.00	8,439.01	8,068.15	121.19	43.57	92.47	-8,717.40	1,099.74	6,286.10	6,134.98	151.12	41.596		
15,500.00	7,870.00	8,437.30	8,066.45	121.93	43.57	92.45	-8,717.43	1,099.70	6,209.81	6,057.77	152.05	40.841		
15,600.00	7,870.00	8,435.59	8,064.74	122.71	43.56	92.42	-8,717.47	1,099.67	6,134.21	5,981.21	153.00	40.093		
15,700.00	7,870.00	8,433.86	8,063.01	123.52	43.56	92.40	-8,717.50	1,099.64	6,059.31	5,905.34	153.97	39.353		
15,800.00	7,870.00	8,433.00	8,062.15	124.36	43.56	92.39	-8,717.52	1,099.62	5,985.15	5,830.16	154.98	38.619		
15,900.00	7,870.00	8,433.00	8,062.15	125.23	43.56	92.39	-8,717.52	1,099.62	5,911.74	5,755.72	156.02	37.891		
16,000.00	7,870.00	8,433.00	8,062.15	126.14	43.56	92.39	-8,717.52	1,099.62	5,839.13	5,682.05	157.08	37.172		
16,100.00	7,870.00	8,427.23	8,056.39	127.07	43.55	92.30	-8,717.64	1,099.52	5,767.33	5,609.18	158.15	36.468		
16,200.00	7,870.00	8,425.50	8,054.65	128.04	43.55	92.28	-8,717.68	1,099.49	5,696.38	5,537.13	159.26	35.769		
16,300.00	7,870.00	8,423.73	8,052.88	129.04	43.54	92.25	-8,717.72	1,099.46	5,626.32	5,465.93	160.39	35.078		
16,400.00	7,870.00	8,421.91	8,051.06	130.06	43.54	92.23	-8,717.76	1,099.42	5,557.17	5,395.62	161.56	34.398		
16,500.00	7,870.00	8,420.05	8,049.20	131.11	43.54	92.20	-8,717.80	1,099.39	5,488.97	5,326.23	162.75	33.727		
16,600.00	7,870.00	8,418.14	8,047.30	132.19	43.53	92.18	-8,717.85	1,099.36	5,421.76	5,257.80	163.96	33.067		
16,700.00	7,870.00	8,416.18	8,045.34	133.29	43.53	92.15	-8,717.89	1,099.33	5,355.57	5,190.37	165.21	32.417		
16,800.00	7,870.00	8,414.18	8,043.33	134.42	43.53	92.12	-8,717.94	1,099.29	5,290.44	5,123.97	166.48	31.779		
16,900.00	7,870.00	8,412.12	8,041.28	135.57	43.52	92.09	-8,717.99	1,099.26	5,226.42	5,058.65	167.77	31.152		
17,000.00	7,870.00	8,410.00	8,039.16	136.75	43.52	92.06	-8,718.04	1,099.22	5,163.53	4,994.44	169.09	30.538		
17,100.00	7,870.00	8,407.84	8,036.99	137.94	43.51	92.03	-8,718.09	1,099.19	5,101.83	4,931.40	170.43	29.935		
17,200.00	7,870.00	8,405.61	8,034.77	139.16	43.51	92.00	-8,718.15	1,099.15	5,041.36	4,869.57	171.79	29.346		
17,300.00	7,870.00	8,403.32	8,032.48	140.39	43.51	91.96	-8,718.21	1,099.11	4,982.16	4,808.98	173.18	28.769		
17,400.00	7,870.00	8,400.97	8,030.13	141.65	43.50	91.93	-8,718.27	1,099.07	4,924.27	4,749.69	174.58	28.206		
17,500.00	7,870.00	8,398.55	8,027.71	142.92	43.50	91.90	-8,718.33	1,099.04	4,867.75	4,691.75	176.00	27.657		
17,600.00	7,870.00	8,396.06	8,025.23	144.21	43.49	91.86	-8,718.39	1,099.00	4,812.65	4,635.21	177.44	27.123		
17,700.00	7,870.00	8,393.50	8,022.67	145.52	43.49	91.83	-8,718.46	1,098.96	4,759.01	4,580.12	178.89	26.603		
17,800.00	7,870.00	8,390.87	8,020.04	146.84	43.48	91.79	-8,718.53	1,098.92	4,706.87	4,526.52	180.35	26.098		
17,900.00	7,870.00	8,388.16	8,017.32	148.18	43.48	91.75	-8,718.61	1,098.88	4,656.31	4,474.48	181.82	25.609		
18,000.00	7,870.00	8,385.36	8,014.53	149.54	43.47	91.71	-8,718.69	1,098.84	4,607.35	4,424.05	183.30	25.136		
18,100.00	7,870.00	8,382.48	8,011.65	150.90	43.47	91.67	-8,718.77	1,098.80	4,560.06	4,375.29	184.78	24.679		
18,200.00	7,870.00	8,379.51	8,008.68	152.28	43.46	91.63	-8,718.85	1,098.75	4,514.49	4,328.24	186.25	24.238		
18,300.00	7,870.00	8,376.45	8,005.62	153.67	43.46	91.58	-8,718.94	1,098.71	4,470.69	4,282.97	187.73	23.815		
18,400.00	7,870.00	8,373.28	8,002.46	155.07	43.45	91.54	-8,719.04	1,098.67	4,428.71	4,239.53	189.19	23.409		
18,500.00	7,870.00	8,370.02	7,999.20	156.49	43.44	91.49	-8,719.13	1,098.62	4,388.61	4,197.97	190.64	23.020		
18,600.00	7,870.00	8,366.64	7,995.82	157.91	43.44	91.44	-8,719.24	1,098.58	4,350.44	4,158.36	192.07	22.650		
18,700.00	7,870.00	8,363.15	7,992.34	159.35	43.43	91.40	-8,719.35	1,098.54	4,314.24	4,120.76	193.49	22.297		
18,800.00	7,870.00	8,359.55	7,988.73	160.79	43.43	91.34	-8,719.46	1,098.49	4,280.07	4,085.20	194.87	21.963		
18,900.00	7,870.00	8,355.81	7,985.00	162.25	43.42	91.29	-8,719.58	1,098.45	4,247.98	4,051.75	196.23	21.648		
19,000.00	7,870.00	8,351.94	7,981.13	163.71	43.41	91.24	-8,719.71	1,098.40	4,218.02	4,020.47	197.55	21.352		
19,100.00	7,870.00	8,347.93	7,977.12	165.18	43.40	91.18	-8,719.84	1,098.35	4,190.22	3,991.39	198.83	21.075		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 0-8-26 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,200.00	7,870.00	8,343.78	7,972.97	166.66	43.40	91.12	-8,719.98	1,098.31	4,164.63	3,964.58	200.06	20.817	
19,300.00	7,870.00	8,339.46	7,968.66	168.15	43.39	91.06	-8,720.13	1,098.26	4,141.30	3,940.07	201.24	20.579	
19,400.00	7,870.00	8,334.99	7,964.19	169.65	43.38	91.00	-8,720.29	1,098.21	4,120.27	3,917.90	202.36	20.361	
19,500.00	7,870.00	8,330.33	7,959.54	171.15	43.37	90.93	-8,720.45	1,098.17	4,101.55	3,898.12	203.43	20.162	
19,600.00	7,870.00	8,325.50	7,954.70	172.66	43.36	90.86	-8,720.63	1,098.12	4,085.20	3,880.77	204.43	19.983	
19,700.00	7,870.00	8,320.46	7,949.67	174.18	43.35	90.79	-8,720.82	1,098.07	4,071.23	3,865.87	205.36	19.825	
19,800.00	7,870.00	8,315.22	7,944.43	175.70	43.35	90.72	-8,721.02	1,098.03	4,059.68	3,853.46	206.22	19.686	
19,889.26	7,870.00	8,310.35	7,939.57	177.06	43.34	90.65	-8,721.21	1,097.99	4,051.42	3,844.50	206.92	19.580 CC, ES, SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	45.26	45.26	0.00	0.07	163.84	-7,154.09	2,073.51	7,448.55					
100.00	100.00	115.11	115.11	0.13	0.25	163.84	-7,153.87	2,073.62	7,448.34	7,447.96	0.39	N/A		
200.00	200.00	166.00	166.00	0.49	0.43	163.84	-7,154.22	2,073.29	7,448.81	7,447.89	0.92	8,077.953		
300.00	300.00	211.84	211.82	0.85	0.59	163.84	-7,154.94	2,072.75	7,449.97	7,448.52	1.44	5,165.391		
400.00	399.98	257.00	256.97	1.21	0.75	95.67	-7,155.99	2,072.09	7,451.99	7,450.04	1.96	3,811.154		
500.00	499.84	299.07	299.01	1.56	0.90	95.63	-7,157.37	2,071.21	7,455.12	7,452.66	2.46	3,026.244		
600.00	599.45	349.00	348.86	1.93	1.08	95.60	-7,159.66	2,069.64	7,459.43	7,456.42	3.01	2,477.651		
700.00	698.70	377.57	377.36	2.32	1.19	95.53	-7,161.27	2,068.50	7,464.86	7,461.36	3.50	2,132.755		
800.00	797.47	440.00	439.57	2.72	1.42	95.51	-7,165.54	2,065.46	7,471.56	7,467.42	4.14	1,806.323		
900.00	895.62	440.00	439.57	3.16	1.42	95.35	-7,165.54	2,065.46	7,479.27	7,474.69	4.57	1,636.407		
1,000.00	993.06	481.99	481.35	3.63	1.58	95.27	-7,169.02	2,063.18	7,488.26	7,483.06	5.20	1,441.243		
1,100.00	1,089.64	533.00	532.05	4.14	1.78	95.20	-7,173.93	2,060.44	7,498.63	7,492.74	5.89	1,272.238		
1,200.00	1,185.27	533.00	532.05	4.70	1.78	94.97	-7,173.93	2,060.44	7,510.10	7,503.65	6.44	1,165.758		
1,300.00	1,279.82	577.05	575.76	5.31	1.96	94.85	-7,178.78	2,057.87	7,522.83	7,515.62	7.21	1,043.558		
1,400.00	1,373.17	625.00	623.23	5.97	2.16	94.73	-7,184.67	2,054.57	7,536.81	7,528.77	8.04	937.158		
1,500.00	1,465.21	625.00	623.23	6.69	2.16	94.43	-7,184.67	2,054.57	7,551.97	7,543.23	8.74	863.941		
1,600.00	1,555.84	682.39	679.89	7.47	2.40	94.32	-7,192.51	2,049.87	7,568.19	7,558.46	9.73	777.670		
1,700.00	1,644.94	717.00	713.96	8.31	2.55	94.12	-7,197.61	2,046.62	7,585.62	7,574.93	10.69	709.720		
1,800.00	1,732.39	717.00	713.96	9.23	2.55	93.74	-7,197.61	2,046.62	7,604.39	7,592.83	11.56	657.726		
1,900.00	1,818.11	769.21	765.22	10.21	2.79	93.59	-7,205.93	2,041.21	7,624.12	7,611.39	12.72	599.245		
2,000.00	1,901.97	809.00	804.14	11.26	2.98	93.36	-7,212.84	2,036.69	7,645.26	7,631.37	13.89	550.290		
2,100.00	1,983.88	809.00	804.14	12.38	2.98	92.90	-7,212.84	2,036.69	7,667.53	7,652.58	14.95	512.817		
2,200.00	2,063.74	838.87	833.29	13.57	3.13	92.59	-7,218.34	2,033.10	7,691.04	7,674.83	16.21	474.461		
2,300.00	2,141.45	859.97	853.82	14.84	3.23	92.20	-7,222.38	2,030.47	7,715.76	7,698.27	17.49	441.155		
2,327.78	2,162.65	865.61	859.31	15.21	3.26	92.08	-7,223.48	2,029.75	7,722.83	7,704.98	17.85	432.543		
2,400.00	2,217.51	898.00	890.75	16.17	3.42	92.28	-7,229.99	2,025.52	7,741.68	7,722.78	18.89	409.750		
2,500.00	2,293.49	898.00	890.75	17.51	3.42	92.28	-7,229.99	2,025.52	7,768.52	7,748.40	20.13	385.962		
2,600.00	2,369.47	898.00	890.75	18.86	3.42	92.28	-7,229.99	2,025.52	7,796.56	7,775.20	21.36	364.992		
2,700.00	2,445.45	898.00	890.75	20.22	3.42	92.28	-7,229.99	2,025.52	7,825.77	7,803.18	22.59	346.415		
2,800.00	2,521.42	943.70	934.97	21.59	3.66	92.55	-7,239.80	2,019.46	7,855.60	7,831.56	24.04	326.749		
2,900.00	2,597.40	986.00	975.76	22.97	3.88	92.80	-7,249.59	2,013.94	7,886.93	7,861.46	25.47	309.656		
3,000.00	2,673.38	986.00	975.76	24.34	3.88	92.80	-7,249.59	2,013.94	7,918.93	7,892.25	26.68	296.788		
3,100.00	2,749.36	986.00	975.76	25.73	3.88	92.80	-7,249.59	2,013.94	7,952.06	7,924.17	27.88	285.175		
3,200.00	2,825.33	1,007.96	996.88	27.11	4.00	92.93	-7,254.90	2,011.15	7,986.21	7,957.02	29.19	273.603		
3,300.00	2,901.31	1,036.00	1,023.83	28.50	4.16	93.10	-7,261.84	2,007.73	8,021.33	7,990.81	30.52	262.848		
3,400.00	2,977.29	1,036.00	1,023.83	29.90	4.16	93.10	-7,261.84	2,007.73	8,057.39	8,025.70	31.69	254.266		
3,500.00	3,053.27	1,069.90	1,056.40	31.29	4.35	93.29	-7,270.45	2,003.90	8,094.33	8,061.30	33.02	245.119		
3,600.00	3,129.24	1,091.06	1,076.71	32.69	4.47	93.42	-7,275.94	2,001.72	8,132.20	8,097.92	34.28	237.221		
3,700.00	3,205.22	1,143.00	1,126.55	34.08	4.76	93.71	-7,289.82	1,997.05	8,171.12	8,135.42	35.70	228.915		
3,800.00	3,281.20	1,143.00	1,126.55	35.48	4.76	93.71	-7,289.82	1,997.05	8,210.61	8,173.78	36.82	222.987		
3,900.00	3,357.18	1,171.06	1,153.45	36.88	4.92	93.87	-7,297.47	1,994.81	8,251.05	8,212.97	38.08	216.664		
4,000.00	3,433.15	1,218.74	1,199.15	38.29	5.19	94.14	-7,310.53	1,991.07	8,292.19	8,252.75	39.44	210.255		
4,100.00	3,509.13	1,301.60	1,278.59	39.69	5.66	94.60	-7,333.23	1,984.70	8,333.87	8,292.89	40.98	203.385		
4,200.00	3,585.11	1,463.40	1,433.98	41.09	6.59	95.50	-7,376.39	1,971.69	8,375.63	8,332.69	42.94	195.077		
4,300.00	3,661.08	1,520.62	1,489.02	42.50	6.92	95.81	-7,391.26	1,966.83	8,417.47	8,373.15	44.32	189.914		
4,400.00	3,737.06	1,555.19	1,522.23	43.90	7.12	96.00	-7,400.35	1,963.74	8,460.03	8,414.45	45.58	185.620		
4,500.00	3,813.04	1,591.78	1,557.34	45.31	7.33	96.21	-7,410.07	1,960.35	8,503.30	8,456.47	46.83	181.569		
4,600.00	3,889.02	1,634.31	1,598.11	46.71	7.58	96.44	-7,421.47	1,956.24	8,547.23	8,499.12	48.11	177.656		
4,700.00	3,964.99	1,682.72	1,644.47	48.12	7.87	96.71	-7,434.53	1,951.35	8,591.80	8,542.39	49.41	173.877		
4,800.00	4,040.97	1,753.07	1,711.81	49.53	8.29	97.10	-7,453.49	1,943.99	8,636.87	8,586.04	50.83	169.913		
4,900.00	4,116.95	1,806.95	1,763.39	50.94	8.61	97.39	-7,467.98	1,938.22	8,682.43	8,630.28	52.15	166.500		
5,000.00	4,192.93	1,869.81	1,823.54	52.35	8.99	97.74	-7,484.92	1,931.44	8,728.52	8,675.01	53.50	163.138		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,268.90	1,941.05	1,891.75	53.76	9.42	98.13	-7,504.03	1,923.91	8,775.00	8,720.10	54.90	159.835		
5,200.00	4,344.88	5,200.00	2,003.80	55.16	28.68	98.75	-7,535.24	1,912.61	8,821.96	8,752.14	69.82	126.357		
5,300.00	4,420.86	2,191.00	2,131.85	56.57	10.90	99.46	-7,569.35	1,900.30	8,868.41	8,810.13	58.28	152.163		
5,400.00	4,496.84	2,224.88	2,164.43	57.98	11.10	99.64	-7,577.95	1,896.71	8,915.44	8,856.00	59.44	149.994		
5,500.00	4,572.81	2,248.55	2,187.12	59.39	11.24	99.76	-7,584.05	1,893.95	8,963.20	8,902.67	60.52	148.094		
5,600.00	4,648.79	2,396.32	2,328.80	60.81	12.13	100.56	-7,621.52	1,874.99	9,011.28	8,948.95	62.32	144.587		
5,700.00	4,724.77	2,422.61	2,354.04	62.22	12.28	100.70	-7,628.12	1,871.73	9,059.61	8,996.20	63.41	142.882		
5,800.00	4,800.74	2,453.00	2,383.19	63.63	12.46	100.86	-7,635.87	1,868.03	9,108.61	9,044.11	64.50	141.217		
5,900.00	4,876.72	2,627.00	2,550.62	65.04	13.48	101.76	-7,679.24	1,849.04	9,157.35	9,090.92	66.43	137.854		
6,000.00	4,952.70	2,665.25	2,587.46	66.45	13.71	101.96	-7,688.47	1,844.50	9,206.47	9,138.92	67.55	136.286		
6,100.00	5,028.68	2,682.12	2,603.67	67.86	13.81	102.05	-7,692.67	1,842.46	9,256.39	9,187.85	68.54	135.051		
6,200.00	5,104.65	2,714.00	2,634.25	69.27	14.00	102.21	-7,700.79	1,838.52	9,307.05	9,237.44	69.60	133.714		
6,300.00	5,180.63	2,727.73	2,647.40	70.69	14.08	102.29	-7,704.33	1,836.81	9,358.30	9,287.75	70.55	132.650		
6,400.00	5,256.61	2,946.78	2,857.94	72.10	15.38	103.40	-7,759.26	1,811.54	9,409.49	9,336.78	72.72	129.399		
6,500.00	5,332.59	2,976.00	2,886.09	73.51	15.55	103.55	-7,766.34	1,808.21	9,460.67	9,386.93	73.74	128.297		
6,600.00	5,408.56	3,020.50	2,928.95	74.92	15.81	103.77	-7,777.27	1,803.36	9,512.36	9,437.52	74.84	127.095		
6,700.00	5,484.54	3,064.00	2,970.81	76.34	16.06	103.98	-7,788.30	1,799.06	9,564.74	9,488.80	75.94	125.958		
6,800.00	5,560.52	3,083.55	2,989.62	77.75	16.18	104.08	-7,793.33	1,797.23	9,617.61	9,540.74	76.87	125.113		
6,900.00	5,636.50	3,143.68	3,047.45	79.16	16.53	104.37	-7,808.82	1,791.63	9,670.94	9,592.89	78.05	123.914		
7,000.00	5,712.47	3,187.07	3,089.16	80.57	16.79	104.58	-7,820.02	1,787.49	9,724.67	9,645.56	79.11	122.926		
7,100.00	5,788.45	3,227.49	3,127.98	81.99	17.03	104.78	-7,830.47	1,783.35	9,778.87	9,698.72	80.15	122.014		
7,200.00	5,864.43	3,274.26	3,172.87	83.40	17.31	105.00	-7,842.61	1,778.32	9,833.53	9,752.32	81.21	121.084		
7,300.00	5,940.40	3,323.40	3,220.02	84.81	17.61	105.24	-7,855.41	1,773.04	9,888.60	9,806.31	82.29	120.174		
7,400.00	6,016.38	3,376.35	3,270.82	86.23	17.92	105.49	-7,869.28	1,767.47	9,944.06	9,860.69	83.38	119.268		
7,500.00	6,092.36	3,626.72	3,511.57	87.64	19.40	106.67	-7,933.40	1,742.88	9,999.71	9,914.02	85.70	116.689		
10,500.00	7,870.00	8,194.74	8,026.77	114.91	35.96	92.15	-8,337.64	1,598.86	9,983.70	9,856.51	127.18	78.498		
10,600.00	7,870.00	8,193.80	8,025.83	114.65	35.96	92.13	-8,337.65	1,598.85	9,890.26	9,762.86	127.40	77.630		
10,700.00	7,870.00	8,192.86	8,024.89	114.41	35.96	92.12	-8,337.66	1,598.84	9,796.95	9,669.33	127.63	76.763		
10,800.00	7,870.00	8,191.92	8,023.95	114.17	35.95	92.10	-8,337.67	1,598.83	9,703.78	9,575.92	127.86	75.896		
10,900.00	7,870.00	8,190.98	8,023.01	113.95	35.95	92.09	-8,337.68	1,598.82	9,610.74	9,482.65	128.09	75.029		
11,000.00	7,870.00	8,190.04	8,022.07	113.75	35.95	92.07	-8,337.69	1,598.81	9,517.85	9,389.51	128.34	74.163		
11,100.00	7,870.00	8,189.09	8,021.13	113.55	35.95	92.06	-8,337.70	1,598.80	9,425.10	9,296.51	128.59	73.298		
11,200.00	7,870.00	8,188.15	8,020.19	113.37	35.95	92.04	-8,337.71	1,598.79	9,332.49	9,203.65	128.84	72.433		
11,300.00	7,870.00	8,187.21	8,019.24	113.20	35.94	92.03	-8,337.72	1,598.78	9,240.05	9,110.94	129.11	71.568		
11,400.00	7,870.00	8,186.26	8,018.30	113.04	35.94	92.01	-8,337.73	1,598.77	9,147.76	9,018.38	129.38	70.704		
11,500.00	7,870.00	8,185.32	8,017.36	112.89	35.94	92.00	-8,337.74	1,598.77	9,055.63	8,925.97	129.66	69.841		
11,600.00	7,870.00	8,184.37	8,016.41	112.76	35.94	91.98	-8,337.75	1,598.76	8,963.68	8,833.73	129.95	68.979		
11,700.00	7,870.00	8,183.43	8,015.46	112.64	35.93	91.97	-8,337.76	1,598.75	8,871.90	8,741.65	130.24	68.117		
11,800.00	7,870.00	8,182.48	8,014.52	112.53	35.93	91.95	-8,337.77	1,598.74	8,780.29	8,649.74	130.55	67.257		
11,900.00	7,870.00	8,181.53	8,013.57	112.44	35.93	91.94	-8,337.78	1,598.73	8,688.88	8,558.01	130.86	66.397		
12,000.00	7,870.00	8,180.59	8,012.62	112.36	35.93	91.92	-8,337.79	1,598.72	8,597.65	8,466.46	131.18	65.538		
12,100.00	7,870.00	8,179.64	8,011.67	112.29	35.92	91.90	-8,337.80	1,598.71	8,506.62	8,375.10	131.52	64.681		
12,200.00	7,870.00	8,178.69	8,010.73	112.24	35.92	91.89	-8,337.81	1,598.70	8,415.79	8,283.94	131.86	63.825		
12,300.00	7,870.00	8,177.74	8,009.78	112.20	35.92	91.87	-8,337.82	1,598.69	8,325.18	8,192.97	132.21	62.969		
12,400.00	7,870.00	8,176.79	8,008.83	112.17	35.92	91.86	-8,337.83	1,598.68	8,234.78	8,102.21	132.57	62.116		
12,500.00	7,870.00	8,175.84	8,007.87	112.16	35.91	91.84	-8,337.84	1,598.67	8,144.60	8,011.66	132.94	61.263		
12,600.00	7,870.00	8,174.89	8,006.92	112.17	35.91	91.83	-8,337.85	1,598.66	8,054.66	7,921.33	133.33	60.413		
12,700.00	7,870.00	8,173.93	8,005.97	112.19	35.91	91.81	-8,337.86	1,598.65	7,964.96	7,831.24	133.72	59.563		
12,800.00	7,870.00	8,172.98	8,005.02	112.23	35.91	91.80	-8,337.87	1,598.64	7,875.50	7,741.38	134.13	58.716		
12,900.00	7,870.00	8,172.03	8,004.06	112.28	35.91	91.78	-8,337.88	1,598.63	7,786.31	7,651.76	134.55	57.870		
13,000.00	7,870.00	8,171.07	8,003.11	112.36	35.90	91.77	-8,337.89	1,598.62	7,697.37	7,562.39	134.98	57.027		
13,100.00	7,870.00	8,170.12	8,002.16	112.45	35.90	91.75	-8,337.90	1,598.61	7,608.71	7,473.29	135.42	56.185		

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

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 14-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,200.00	7,870.00	8,169.16	8,001.20	112.56	35.90	91.74	-8,337.91	1,598.60	7,520.34	7,384.46	135.88	55.346		
13,300.00	7,870.00	8,168.21	8,000.24	112.68	35.90	91.72	-8,337.92	1,598.59	7,432.26	7,295.91	136.35	54.509		
13,400.00	7,870.00	8,167.25	7,999.29	112.83	35.89	91.70	-8,337.93	1,598.58	7,344.49	7,207.65	136.83	53.674		
13,500.00	7,870.00	8,166.29	7,998.33	113.00	35.89	91.69	-8,337.94	1,598.57	7,257.03	7,119.69	137.33	52.842		
13,600.00	7,870.00	8,165.33	7,997.37	113.19	35.89	91.67	-8,337.95	1,598.56	7,169.90	7,032.05	137.85	52.013		
13,700.00	7,870.00	8,164.38	7,996.41	113.40	35.89	91.66	-8,337.96	1,598.55	7,083.11	6,944.73	138.38	51.187		
13,800.00	7,870.00	8,163.42	7,995.45	113.63	35.88	91.64	-8,337.97	1,598.54	6,996.67	6,857.74	138.92	50.364		
13,900.00	7,870.00	8,162.46	7,994.49	113.89	35.88	91.63	-8,337.98	1,598.53	6,910.60	6,771.11	139.49	49.544		
14,000.00	7,870.00	8,161.50	7,993.53	114.18	35.88	91.61	-8,337.99	1,598.52	6,824.90	6,684.84	140.06	48.727		
14,100.00	7,870.00	8,160.53	7,992.57	114.48	35.88	91.60	-8,338.00	1,598.51	6,739.60	6,598.94	140.66	47.914		
14,200.00	7,870.00	8,159.57	7,991.61	114.82	35.87	91.58	-8,338.01	1,598.50	6,654.71	6,513.44	141.28	47.105		
14,300.00	7,870.00	8,158.61	7,990.65	115.18	35.87	91.56	-8,338.02	1,598.49	6,570.25	6,428.34	141.91	46.299		
14,400.00	7,870.00	8,157.65	7,989.68	115.57	35.87	91.55	-8,338.03	1,598.48	6,486.23	6,343.67	142.56	45.498		
14,500.00	7,870.00	8,156.68	7,988.72	115.99	35.87	91.53	-8,338.04	1,598.47	6,402.66	6,259.43	143.23	44.702		
14,600.00	7,870.00	8,155.72	7,987.76	116.44	35.86	91.52	-8,338.05	1,598.46	6,319.58	6,175.65	143.92	43.909		
14,700.00	7,870.00	8,154.75	7,986.79	116.92	35.86	91.50	-8,338.06	1,598.45	6,236.99	6,092.35	144.64	43.122		
14,800.00	7,870.00	8,153.79	7,985.82	117.44	35.86	91.49	-8,338.07	1,598.44	6,154.91	6,009.54	145.37	42.340		
14,900.00	7,870.00	8,162.26	7,994.30	117.98	35.88	91.62	-8,337.95	1,598.54	6,073.35	5,927.18	146.17	41.549		
15,000.00	7,870.00	8,160.73	7,992.77	118.56	35.88	91.60	-8,337.97	1,598.52	5,992.38	5,845.43	146.95	40.779		
15,100.00	7,870.00	8,159.22	7,991.26	119.17	35.87	91.57	-8,337.99	1,598.51	5,911.99	5,764.24	147.74	40.015		
15,200.00	7,870.00	8,157.73	7,989.76	119.81	35.87	91.55	-8,338.01	1,598.49	5,832.20	5,683.63	148.57	39.257		
15,300.00	7,870.00	8,156.25	7,988.29	120.48	35.87	91.53	-8,338.03	1,598.47	5,753.04	5,603.63	149.41	38.505		
15,400.00	7,870.00	8,154.79	7,986.83	121.19	35.86	91.50	-8,338.04	1,598.46	5,674.54	5,524.27	150.28	37.760		
15,500.00	7,870.00	8,153.35	7,985.38	121.93	35.86	91.48	-8,338.06	1,598.44	5,596.73	5,445.56	151.17	37.023		
15,600.00	7,870.00	8,151.92	7,983.96	122.71	35.86	91.46	-8,338.08	1,598.43	5,519.63	5,367.55	152.09	36.292		
15,700.00	7,870.00	8,150.51	7,982.55	123.52	35.85	91.43	-8,338.10	1,598.41	5,443.28	5,290.25	153.03	35.570		
15,800.00	7,870.00	8,149.11	7,981.15	124.36	35.85	91.41	-8,338.11	1,598.39	5,367.70	5,213.70	154.00	34.855		
15,900.00	7,870.00	8,147.73	7,979.77	125.23	35.84	91.39	-8,338.13	1,598.38	5,292.94	5,137.94	154.99	34.149		
16,000.00	7,870.00	8,146.36	7,978.40	126.14	35.84	91.37	-8,338.14	1,598.36	5,219.02	5,063.00	156.01	33.452		
16,100.00	7,870.00	8,145.01	7,977.05	127.07	35.84	91.34	-8,338.16	1,598.35	5,145.98	4,988.91	157.06	32.764		
16,200.00	7,870.00	8,143.68	7,975.72	128.04	35.83	91.32	-8,338.18	1,598.33	5,073.85	4,915.72	158.13	32.086		
16,300.00	7,870.00	8,142.35	7,974.39	129.04	35.83	91.30	-8,338.19	1,598.32	5,002.69	4,843.46	159.23	31.418		
16,400.00	7,870.00	8,141.05	7,973.09	130.06	35.83	91.28	-8,338.21	1,598.30	4,932.53	4,772.17	160.35	30.760		
16,500.00	7,870.00	8,139.75	7,971.79	131.11	35.82	91.26	-8,338.22	1,598.29	4,863.41	4,701.91	161.50	30.113		
16,600.00	7,870.00	8,138.47	7,970.51	132.19	35.82	91.24	-8,338.24	1,598.28	4,795.38	4,632.71	162.68	29.478		
16,700.00	7,870.00	8,137.20	7,969.25	133.29	35.82	91.22	-8,338.25	1,598.26	4,728.49	4,564.62	163.87	28.855		
16,800.00	7,870.00	8,135.95	7,967.99	134.42	35.82	91.20	-8,338.26	1,598.25	4,662.78	4,497.69	165.09	28.244		
16,900.00	7,870.00	8,134.71	7,966.75	135.57	35.81	91.18	-8,338.28	1,598.23	4,598.31	4,431.97	166.33	27.645		
17,000.00	7,870.00	8,133.48	7,965.52	136.75	35.81	91.16	-8,338.29	1,598.22	4,535.12	4,367.53	167.60	27.060		
17,100.00	7,870.00	8,132.27	7,964.31	137.94	35.81	91.14	-8,338.31	1,598.21	4,473.28	4,304.40	168.88	26.489		
17,200.00	7,870.00	8,131.07	7,963.11	139.16	35.80	91.12	-8,338.32	1,598.19	4,412.84	4,242.66	170.17	25.931		
17,300.00	7,870.00	8,129.88	7,961.92	140.39	35.80	91.10	-8,338.33	1,598.18	4,353.85	4,182.37	171.49	25.389		
17,400.00	7,870.00	8,128.70	7,960.74	141.65	35.80	91.08	-8,338.34	1,598.16	4,296.39	4,123.57	172.81	24.862		
17,500.00	7,870.00	8,127.53	7,959.57	142.92	35.79	91.06	-8,338.36	1,598.15	4,240.50	4,066.35	174.15	24.350		
17,600.00	7,870.00	8,126.38	7,958.42	144.21	35.79	91.04	-8,338.37	1,598.14	4,186.25	4,010.76	175.49	23.855		
17,700.00	7,870.00	8,125.23	7,957.28	145.52	35.79	91.02	-8,338.38	1,598.13	4,133.72	3,956.88	176.83	23.376		
17,800.00	7,870.00	8,124.10	7,956.14	146.84	35.79	91.01	-8,338.39	1,598.11	4,082.95	3,904.77	178.18	22.915		
17,900.00	7,870.00	8,122.98	7,955.02	148.18	35.78	90.99	-8,338.41	1,598.10	4,034.03	3,854.51	179.52	22.471		
18,000.00	7,870.00	8,121.87	7,953.91	149.54	35.78	90.97	-8,338.42	1,598.09	3,987.01	3,806.16	180.85	22.046		
18,100.00	7,870.00	8,120.77	7,952.82	150.90	35.78	90.95	-8,338.43	1,598.07	3,941.97	3,759.80	182.17	21.639		
18,200.00	7,870.00	8,119.69	7,951.73	152.28	35.77	90.93	-8,338.44	1,598.06	3,898.98	3,715.50	183.47	21.251		
18,300.00	7,870.00	8,118.61	7,950.65	153.67	35.77	90.92	-8,338.45	1,598.05	3,858.09	3,673.34	184.75	20.883		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
18,400.00	7,870.00	8,117.54	7,949.58	155.07	35.77	90.90	-8,338.46	1,598.04	3,819.39	3,633.39	186.00	20.535	
18,500.00	7,870.00	8,116.48	7,948.53	156.49	35.77	90.88	-8,338.47	1,598.03	3,782.94	3,595.73	187.21	20.207	
18,600.00	7,870.00	8,115.44	7,947.48	157.91	35.76	90.87	-8,338.48	1,598.01	3,748.80	3,560.42	188.38	19.900	
18,700.00	7,870.00	8,114.40	7,946.45	159.35	35.76	90.85	-8,338.50	1,598.00	3,717.04	3,527.53	189.51	19.614	
18,800.00	7,870.00	8,113.38	7,945.42	160.79	35.76	90.83	-8,338.51	1,597.99	3,687.71	3,497.13	190.58	19.350	
18,900.00	7,870.00	8,112.36	7,944.40	162.25	35.76	90.82	-8,338.52	1,597.98	3,660.89	3,469.29	191.59	19.108	
19,000.00	7,870.00	8,111.35	7,943.39	163.71	35.75	90.80	-8,338.53	1,597.97	3,636.61	3,444.07	192.54	18.888	
19,100.00	7,870.00	8,110.35	7,942.40	165.18	35.75	90.78	-8,338.54	1,597.95	3,614.94	3,421.52	193.42	18.690	
19,200.00	7,870.00	8,109.36	7,941.41	166.66	35.75	90.77	-8,338.55	1,597.94	3,595.92	3,401.70	194.22	18.515	
19,300.00	7,870.00	8,108.38	7,940.43	168.15	35.75	90.75	-8,338.56	1,597.93	3,579.60	3,384.66	194.94	18.363	
19,400.00	7,870.00	8,107.41	7,939.46	169.65	35.74	90.74	-8,338.57	1,597.92	3,566.00	3,370.43	195.57	18.234	
19,500.00	7,870.00	8,106.45	7,938.50	171.15	35.74	90.72	-8,338.58	1,597.91	3,555.17	3,359.05	196.11	18.128	
19,600.00	7,870.00	8,105.50	7,937.54	172.66	35.74	90.70	-8,338.58	1,597.90	3,547.12	3,350.56	196.56	18.046	
19,700.00	7,870.00	8,104.55	7,936.60	174.18	35.74	90.69	-8,338.59	1,597.89	3,541.88	3,344.96	196.92	17.987	
19,800.00	7,870.00	8,103.62	7,935.66	175.70	35.73	90.67	-8,338.60	1,597.88	3,539.46	3,342.28	197.17	17.951	
19,835.79	7,870.00	8,103.29	7,935.33	176.24	35.73	90.67	-8,338.61	1,597.87	3,539.28	3,342.03	197.24	17.944 CC, ES	
19,889.26	7,870.00	8,102.79	7,934.84	177.06	35.73	90.66	-8,338.61	1,597.87	3,539.68	3,342.36	197.32	17.939 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	22.13	22.13	0.00	0.04	163.68	-7,110.82	2,081.59	7,409.23							
100.00	100.00	114.36	114.36	0.13	0.19	163.68	-7,110.80	2,081.92	7,409.31	7,408.99	0.32	N/A				
200.00	200.00	186.91	186.89	0.49	0.41	163.67	-7,110.62	2,083.22	7,409.60	7,408.70	0.90	8,221.920				
300.00	300.00	226.00	225.93	0.85	0.56	163.66	-7,110.32	2,085.14	7,410.40	7,409.00	1.40	5,287.326				
400.00	399.98	265.90	265.74	1.21	0.71	95.46	-7,110.09	2,087.95	7,412.18	7,410.28	1.91	3,888.377				
500.00	499.84	318.00	317.60	1.56	0.91	95.38	-7,110.29	2,092.86	7,415.44	7,412.98	2.46	3,016.141				
600.00	599.45	328.12	327.66	1.93	0.95	95.30	-7,110.39	2,093.95	7,419.71	7,416.84	2.87	2,587.838				
700.00	698.70	396.19	395.30	2.32	1.21	95.20	-7,111.11	2,101.61	7,425.06	7,421.54	3.52	2,111.179				
800.00	797.47	940.00	927.25	2.72	3.79	94.95	-7,084.72	2,206.91	7,424.83	7,418.32	6.50	1,142.131				
814.09	811.34	958.78	945.32	2.78	3.90	94.94	-7,082.95	2,211.69	7,424.80	7,418.13	6.67	1,113.319				
900.00	895.62	999.31	984.28	3.16	4.13	94.91	-7,079.26	2,222.21	7,425.23	7,417.95	7.28	1,020.498				
1,000.00	993.06	1,059.32	1,041.92	3.63	4.47	94.85	-7,074.11	2,238.13	7,426.62	7,418.53	8.09	917.723				
1,100.00	1,089.64	1,142.33	1,121.82	4.14	4.95	94.80	-7,067.42	2,259.64	7,428.67	7,419.59	9.08	817.993				
1,200.00	1,185.27	1,228.82	1,205.26	4.70	5.44	94.77	-7,060.75	2,281.38	7,431.14	7,421.00	10.14	733.190				
1,300.00	1,279.82	1,295.00	1,268.69	5.31	5.83	94.73	-7,055.49	2,299.49	7,434.30	7,423.16	11.13	667.738				
1,400.00	1,373.17	1,416.73	1,385.19	5.97	6.57	94.73	-7,045.62	2,333.36	7,437.72	7,425.19	12.53	593.391				
1,500.00	1,465.21	1,469.00	1,435.35	6.69	6.89	94.70	-7,041.50	2,347.49	7,441.56	7,428.00	13.57	548.548				
1,600.00	1,555.84	1,535.01	1,498.70	7.47	7.29	94.68	-7,036.65	2,365.41	7,446.21	7,431.47	14.74	505.132				
1,700.00	1,644.94	1,641.52	1,600.83	8.31	7.93	94.72	-7,029.33	2,394.72	7,451.68	7,435.45	16.23	459.169				
1,800.00	1,732.39	1,760.10	1,714.30	9.23	8.66	94.80	-7,020.52	2,428.02	7,457.10	7,439.23	17.87	417.337				
1,900.00	1,818.11	1,890.13	1,838.87	10.21	9.46	94.94	-7,010.64	2,463.93	7,462.62	7,442.98	19.64	379.930				
2,000.00	1,901.97	1,985.22	1,930.18	11.26	10.03	95.03	-7,003.32	2,489.45	7,468.21	7,446.95	21.26	351.254				
2,100.00	1,983.88	2,100.91	2,041.32	12.38	10.73	95.20	-6,994.30	2,520.32	7,474.09	7,451.02	23.07	323.920				
2,200.00	2,063.74	2,168.00	2,105.79	13.57	11.13	95.26	-6,989.08	2,538.10	7,480.45	7,455.79	24.66	303.325				
2,300.00	2,141.45	2,222.52	2,158.17	14.84	11.46	95.27	-6,985.04	2,552.69	7,487.72	7,461.47	26.25	285.296				
2,327.78	2,162.65	2,235.43	2,170.56	15.21	11.54	95.27	-6,984.13	2,556.20	7,489.93	7,463.25	26.68	280.698				
2,400.00	2,217.51	2,400.00	2,248.73	16.17	12.57	95.52	-6,978.12	2,579.14	7,495.75	7,467.09	28.66	261.539				
2,500.00	2,293.49	2,430.00	2,356.71	17.51	12.75	95.86	-6,969.04	2,610.74	7,503.28	7,473.10	30.17	248.677				
2,600.00	2,369.47	2,482.55	2,407.13	18.86	13.07	96.02	-6,965.02	2,625.01	7,511.43	7,479.60	31.83	236.001				
2,700.00	2,445.45	2,517.00	2,440.09	20.22	13.29	96.13	-6,962.68	2,634.75	7,520.60	7,487.23	33.37	225.342				
2,800.00	2,521.42	2,556.80	2,478.15	21.59	13.53	96.25	-6,960.24	2,646.11	7,530.64	7,495.68	34.96	215.414				
2,900.00	2,597.40	2,604.00	2,523.36	22.97	13.83	96.39	-6,957.69	2,659.46	7,541.48	7,504.88	36.59	206.094				
3,000.00	2,673.38	2,700.90	2,615.89	24.34	14.44	96.68	-6,952.50	2,687.75	7,552.78	7,514.22	38.56	195.885				
3,100.00	2,749.36	2,815.29	2,725.37	25.73	15.16	97.03	-6,946.35	2,720.32	7,564.14	7,523.51	40.63	186.163				
3,200.00	2,825.33	2,903.84	2,810.13	27.11	15.71	97.29	-6,941.27	2,745.43	7,575.34	7,532.80	42.54	178.094				
3,300.00	2,901.31	2,963.74	2,867.44	28.50	16.08	97.47	-6,938.09	2,762.55	7,587.15	7,542.89	44.26	171.438				
3,400.00	2,977.29	3,179.41	3,073.58	29.90	17.44	98.11	-6,924.48	2,824.45	7,597.96	7,550.95	47.00	161.651				
3,500.00	3,053.27	3,257.42	3,148.06	31.29	17.93	98.34	-6,919.26	2,847.08	7,609.01	7,560.16	48.85	155.775				
3,600.00	3,129.24	3,350.12	3,237.05	32.69	18.50	98.63	-6,913.24	2,872.31	7,620.12	7,569.36	50.76	150.118				
3,700.00	3,205.22	3,509.65	3,391.97	34.08	19.37	99.16	-6,903.68	2,909.11	7,631.28	7,578.29	53.00	144.000				
3,800.00	3,281.20	3,594.61	3,475.11	35.48	19.79	99.46	-6,898.64	2,925.85	7,642.15	7,587.39	54.76	139.556				
3,900.00	3,357.18	3,666.53	3,545.82	36.88	20.13	99.73	-6,894.77	2,938.36	7,653.44	7,597.00	56.43	135.621				
4,000.00	3,433.15	3,731.08	3,609.52	38.29	20.41	99.98	-6,891.66	2,948.38	7,665.25	7,607.21	58.05	132.057				
4,100.00	3,509.13	3,813.56	3,691.15	39.69	20.75	100.30	-6,888.11	2,959.60	7,677.55	7,617.84	59.71	128.583				
4,200.00	3,585.11	3,916.59	3,793.43	41.09	21.14	100.72	-6,883.92	2,971.26	7,690.12	7,628.69	61.42	125.197				
4,300.00	3,661.08	3,979.56	3,856.07	42.50	21.36	100.99	-6,881.53	2,977.29	7,703.06	7,640.10	62.96	122.353				
4,400.00	3,737.06	4,055.26	3,931.45	43.90	21.62	101.31	-6,878.94	2,983.61	7,716.56	7,652.04	64.52	119.596				
4,500.00	3,813.04	4,124.83	4,000.80	45.31	21.85	101.61	-6,876.69	2,988.69	7,730.53	7,664.48	66.05	117.043				
4,600.00	3,889.02	4,191.70	4,067.51	46.71	22.06	101.90	-6,874.76	2,993.00	7,745.09	7,677.54	67.55	114.652				
4,700.00	3,964.99	4,283.47	4,159.08	48.12	22.35	102.30	-6,872.15	2,998.29	7,760.06	7,690.94	69.12	112.263				
4,800.00	4,040.97	4,366.34	4,241.81	49.53	22.60	102.67	-6,869.82	3,002.49	7,775.43	7,704.77	70.65	110.049				
4,900.00	4,116.95	4,470.47	4,345.77	50.94	22.91	103.13	-6,866.69	3,007.52	7,791.05	7,718.81	72.24	107.848				

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 134-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,192.93	4,564.38	4,439.54	52.35	23.19	103.55	-6,863.68	3,011.72	7,806.94	7,733.15	73.79	105.804		
5,100.00	4,268.90	4,649.15	4,524.20	53.76	23.45	103.92	-6,860.86	3,015.16	7,823.14	7,747.85	75.29	103.901		
5,200.00	4,344.88	4,724.57	4,599.53	55.16	23.67	104.26	-6,858.39	3,017.94	7,839.81	7,763.04	76.76	102.131		
5,300.00	4,420.86	4,815.29	4,690.15	56.57	23.93	104.66	-6,855.46	3,020.95	7,856.94	7,778.67	78.27	100.386		
5,400.00	4,496.84	4,983.70	4,858.35	57.98	24.42	105.41	-6,848.84	3,026.06	7,873.94	7,793.96	79.99	98.438		
5,500.00	4,572.81	5,046.63	4,921.20	59.39	24.60	105.69	-6,846.16	3,027.67	7,891.10	7,809.71	81.39	96.954		
5,600.00	4,648.79	5,121.47	4,995.96	60.81	24.82	106.03	-6,843.00	3,029.25	7,908.73	7,825.91	82.82	95.497		
5,700.00	4,724.77	5,136.00	5,010.47	62.22	24.86	106.09	-6,842.39	3,029.51	7,927.08	7,843.02	84.06	94.303		
5,800.00	4,800.74	5,199.28	5,073.70	63.63	25.04	106.38	-6,840.06	3,030.60	7,946.08	7,860.65	85.43	93.012		
5,900.00	4,876.72	5,234.15	5,108.55	65.04	25.14	106.54	-6,839.04	3,031.17	7,966.05	7,879.34	86.71	91.872		
6,000.00	4,952.70	5,268.88	5,143.26	66.45	25.23	106.69	-6,838.21	3,031.72	7,986.89	7,898.92	87.97	90.788		
6,100.00	5,028.68	5,310.00	5,184.37	67.86	25.35	106.87	-6,837.47	3,032.34	8,008.60	7,919.35	89.25	89.736		
6,200.00	5,104.65	5,310.00	5,184.37	69.27	25.35	106.87	-6,837.47	3,032.34	8,031.26	7,940.88	90.38	88.863		
6,300.00	5,180.63	5,375.93	5,250.29	70.69	25.53	107.17	-6,836.79	3,033.34	8,054.52	7,962.81	91.70	87.833		
6,400.00	5,256.61	5,412.21	5,286.57	72.10	25.63	107.33	-6,836.68	3,033.91	8,078.72	7,985.80	92.92	86.939		
6,500.00	5,332.59	5,485.00	5,359.35	73.51	25.82	107.65	-6,837.00	3,035.09	8,103.91	8,009.66	94.25	85.981		
6,600.00	5,408.56	5,485.00	5,359.35	74.92	25.82	107.65	-6,837.00	3,035.09	8,129.57	8,034.24	95.33	85.279		
6,700.00	5,484.54	5,555.57	5,429.90	76.34	26.01	107.97	-6,837.69	3,036.16	8,156.04	8,059.42	96.63	84.409		
6,800.00	5,560.52	5,600.00	5,511.69	77.75	29.34	108.80	-6,838.47	3,037.92	8,182.63	8,081.48	101.16	80.892		
6,900.00	5,636.50	5,924.21	5,798.51	79.16	27.00	109.60	-6,836.54	3,039.04	8,208.37	8,108.44	99.93	82.143		
7,000.00	5,712.47	5,989.90	5,864.19	80.57	27.18	109.89	-6,835.50	3,039.37	8,234.17	8,132.98	101.19	81.373		
7,100.00	5,788.45	6,064.34	5,938.62	81.99	27.39	110.21	-6,834.38	3,039.73	8,260.46	8,157.99	102.47	80.611		
7,200.00	5,864.43	6,142.30	6,016.57	83.40	27.61	110.55	-6,833.20	3,040.05	8,287.16	8,183.40	103.76	79.871		
7,300.00	5,940.40	6,222.11	6,101.36	84.81	27.84	110.92	-6,831.88	3,040.31	8,314.24	8,209.19	105.05	79.143		
7,400.00	6,016.38	6,319.40	6,193.65	86.23	28.10	111.32	-6,830.28	3,040.48	8,341.60	8,235.24	106.36	78.425		
7,500.00	6,092.36	6,411.46	6,285.68	87.64	28.36	111.72	-6,828.50	3,040.53	8,369.23	8,261.57	107.67	77.734		
7,600.00	6,168.34	6,503.51	6,377.72	89.05	28.62	112.11	-6,826.55	3,040.61	8,397.12	8,288.16	108.96	77.068		
7,700.00	6,244.31	6,602.30	6,476.48	90.47	28.91	112.54	-6,824.26	3,040.79	8,425.25	8,314.98	110.27	76.408		
7,800.00	6,320.29	6,704.67	6,578.82	91.88	29.20	112.97	-6,821.60	3,041.21	8,453.54	8,341.96	111.58	75.761		
7,900.00	6,396.27	6,771.30	6,645.41	93.30	29.40	113.25	-6,819.82	3,041.57	8,482.15	8,369.37	112.77	75.214		
8,000.00	6,472.25	6,837.02	6,711.11	94.71	29.59	113.53	-6,818.14	3,041.91	8,511.24	8,397.29	113.95	74.690		
8,100.00	6,548.22	6,900.06	6,774.13	96.12	29.77	113.79	-6,816.62	3,042.22	8,540.82	8,425.70	115.12	74.193		
8,200.00	6,624.20	6,957.31	6,831.37	97.54	29.94	114.03	-6,815.35	3,042.47	8,570.93	8,454.68	116.25	73.729		
8,300.00	6,700.18	7,014.43	6,888.48	98.95	30.11	114.27	-6,814.22	3,042.69	8,601.59	8,484.21	117.37	73.285		
8,400.00	6,776.16	7,074.52	6,948.56	100.37	30.29	114.51	-6,813.15	3,042.88	8,632.78	8,514.29	118.50	72.853		
8,500.00	6,852.13	7,142.99	7,017.02	101.78	30.49	114.80	-6,812.04	3,043.17	8,664.44	8,544.80	119.64	72.420		
8,600.00	6,928.11	7,211.57	7,085.59	103.20	30.70	115.08	-6,811.00	3,043.55	8,696.54	8,575.76	120.78	72.004		
8,700.00	7,004.09	7,278.19	7,152.21	104.61	30.89	115.35	-6,810.07	3,043.98	8,729.06	8,607.16	121.90	71.607		
8,800.00	7,080.06	7,343.92	7,217.93	106.02	31.09	115.61	-6,809.23	3,044.37	8,762.03	8,639.01	123.01	71.227		
8,900.00	7,156.04	7,410.82	7,284.82	107.44	31.29	115.88	-6,808.45	3,044.73	8,795.43	8,671.31	124.12	70.861		
9,000.00	7,232.02	7,500.30	7,374.30	108.85	31.56	116.24	-6,807.40	3,045.26	8,829.16	8,703.86	125.31	70.459		
9,104.68	7,311.55	7,594.29	7,468.27	110.33	31.85	116.62	-6,806.18	3,045.97	8,864.71	8,738.17	126.54	70.053		
9,150.00	7,346.29	7,622.86	7,496.84	110.97	31.94	111.26	-6,805.81	3,046.21	8,878.54	8,751.50	127.04	69.888		
9,200.00	7,385.15	7,658.37	7,532.35	111.65	32.05	105.10	-6,805.36	3,046.49	8,889.93	8,762.32	127.62	69.661		
9,250.00	7,424.29	7,694.09	7,568.06	112.31	32.16	98.85	-6,804.92	3,046.78	8,897.22	8,769.01	128.21	69.397		
9,300.00	7,463.40	7,729.73	7,603.70	112.93	32.26	92.68	-6,804.49	3,047.07	8,900.34	8,771.54	128.80	69.100		
9,350.00	7,502.19	7,765.96	7,639.93	113.51	32.38	86.79	-6,804.08	3,047.37	8,899.29	8,769.89	129.40	68.773		
9,400.00	7,540.36	7,803.89	7,677.85	114.04	32.49	81.34	-6,803.65	3,047.70	8,894.06	8,764.06	130.00	68.418		
9,450.00	7,577.62	7,840.92	7,714.88	114.53	32.61	76.45	-6,803.25	3,048.05	8,884.69	8,754.12	130.58	68.042		
9,500.00	7,613.70	7,876.76	7,750.72	114.95	32.72	72.18	-6,802.86	3,048.42	8,871.27	8,740.14	131.13	67.651		
9,550.00	7,648.30	7,911.15	7,785.10	115.32	32.83	68.56	-6,802.50	3,048.80	8,853.88	8,722.22	131.66	67.248		
9,600.00	7,681.18	7,947.44	7,821.38	115.63	32.94	65.60	-6,802.11	3,049.23	8,832.65	8,700.48	132.17	66.827		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,650.00	7,712.08	7,985.56	7,859.50	115.88	33.06	63.30	-6,801.69	3,049.69	8,807.72	8,675.06	132.66	66.392		
9,700.00	7,740.76	8,020.83	7,894.76	116.08	33.17	61.62	-6,801.27	3,050.12	8,779.27	8,646.16	133.11	65.955		
9,750.00	7,767.01	8,052.97	7,926.90	116.23	33.27	60.57	-6,800.86	3,050.53	8,747.52	8,614.00	133.52	65.517		
9,800.00	7,790.63	8,081.74	7,955.67	116.33	33.36	60.18	-6,800.48	3,050.90	8,712.69	8,578.82	133.88	65.080		
9,850.00	7,811.44	8,106.92	7,980.84	116.38	33.44	60.50	-6,800.14	3,051.23	8,675.06	8,540.86	134.19	64.646		
9,900.00	7,829.28	8,128.33	8,002.24	116.38	33.51	61.66	-6,799.83	3,051.52	8,634.88	8,500.42	134.46	64.217		
9,950.00	7,844.01	8,142.96	8,016.87	116.35	33.55	63.83	-6,799.62	3,051.70	8,592.47	8,457.79	134.68	63.799		
10,000.00	7,855.52	8,155.47	8,029.38	116.28	33.59	67.43	-6,799.44	3,051.87	8,548.13	8,413.27	134.86	63.384		
10,050.00	7,863.72	8,164.12	8,038.03	116.18	33.62	73.08	-6,799.31	3,051.98	8,502.19	8,367.19	135.01	62.977		
10,100.00	7,868.56	8,168.85	8,042.76	116.06	33.64	81.86	-6,799.24	3,052.04	8,454.98	8,319.87	135.11	62.578		
10,145.94	7,870.00	8,169.73	8,043.64	115.92	33.64	94.10	-6,799.23	3,052.05	8,410.79	8,275.61	135.18	62.219		
10,200.00	7,870.00	8,168.80	8,042.71	115.76	33.63	94.07	-6,799.24	3,052.04	8,358.44	8,223.20	135.25	61.801		
10,300.00	7,870.00	8,167.09	8,041.00	115.46	33.63	94.02	-6,799.27	3,052.02	8,261.67	8,126.30	135.37	61.030		
10,400.00	7,870.00	8,165.38	8,039.29	115.18	33.62	93.98	-6,799.29	3,052.00	8,164.98	8,029.48	135.50	60.259		
10,500.00	7,870.00	8,163.68	8,037.59	114.91	33.62	93.93	-6,799.32	3,051.97	8,068.37	7,932.74	135.63	59.488		
10,600.00	7,870.00	8,161.99	8,035.90	114.65	33.61	93.88	-6,799.34	3,051.95	7,971.84	7,836.08	135.77	58.718		
10,700.00	7,870.00	8,160.30	8,034.21	114.41	33.61	93.84	-6,799.37	3,051.93	7,875.40	7,739.50	135.90	57.948		
10,800.00	7,870.00	8,158.62	8,032.53	114.17	33.60	93.79	-6,799.39	3,051.91	7,779.05	7,643.00	136.05	57.178		
10,900.00	7,870.00	8,156.94	8,030.85	113.95	33.60	93.75	-6,799.42	3,051.89	7,682.79	7,546.59	136.20	56.410		
11,000.00	7,870.00	8,155.27	8,029.18	113.75	33.59	93.70	-6,799.44	3,051.86	7,586.63	7,450.28	136.35	55.641		
11,100.00	7,870.00	8,153.61	8,027.52	113.55	33.59	93.65	-6,799.47	3,051.84	7,490.57	7,354.06	136.51	54.873		
11,200.00	7,870.00	8,151.95	8,025.86	113.37	33.58	93.61	-6,799.49	3,051.82	7,394.61	7,257.94	136.67	54.106		
11,300.00	7,870.00	8,150.30	8,024.21	113.20	33.58	93.56	-6,799.52	3,051.80	7,298.76	7,161.92	136.84	53.340		
11,400.00	7,870.00	8,148.66	8,022.57	113.04	33.57	93.52	-6,799.54	3,051.78	7,203.02	7,066.01	137.01	52.574		
11,500.00	7,870.00	8,147.02	8,020.93	112.89	33.57	93.47	-6,799.56	3,051.76	7,107.40	6,970.21	137.19	51.809		
11,600.00	7,870.00	8,145.38	8,019.30	112.76	33.56	93.43	-6,799.59	3,051.74	7,011.90	6,874.53	137.37	51.044		
11,700.00	7,870.00	8,143.76	8,017.67	112.64	33.56	93.39	-6,799.61	3,051.71	6,916.53	6,778.97	137.56	50.281		
11,800.00	7,870.00	8,142.13	8,016.05	112.53	33.55	93.34	-6,799.64	3,051.69	6,821.29	6,683.54	137.75	49.518		
11,900.00	7,870.00	8,140.52	8,014.43	112.44	33.55	93.30	-6,799.66	3,051.67	6,726.19	6,588.23	137.95	48.757		
12,000.00	7,870.00	8,138.91	8,012.82	112.36	33.54	93.25	-6,799.68	3,051.65	6,631.23	6,493.07	138.16	47.996		
12,100.00	7,870.00	8,137.30	8,011.22	112.29	33.54	93.21	-6,799.71	3,051.63	6,536.42	6,398.04	138.38	47.236		
12,200.00	7,870.00	8,135.66	8,009.61	112.24	33.54	93.17	-6,799.72	3,051.62	6,441.76	6,303.16	138.61	46.475		
12,300.00	7,870.00	8,134.05	8,008.00	112.20	33.53	93.12	-6,799.75	3,051.59	6,347.28	6,208.44	138.84	45.718		
12,400.00	7,870.00	8,132.47	8,006.38	112.16	33.52	93.08	-6,799.77	3,051.57	6,252.96	6,113.89	139.07	44.962		
12,500.00	7,870.00	8,130.79	8,004.70	112.17	33.51	93.03	-6,799.80	3,051.55	6,158.82	6,019.51	139.32	44.208		
12,600.00	7,870.00	8,129.11	8,003.03	112.19	33.51	92.99	-6,799.82	3,051.53	6,064.87	5,925.30	139.57	43.455		
12,700.00	7,870.00	8,127.45	8,001.37	112.23	33.50	92.94	-6,799.85	3,051.50	5,971.12	5,831.29	139.83	42.703		
12,800.00	7,870.00	8,125.79	7,999.71	112.28	33.50	92.89	-6,799.87	3,051.48	5,877.57	5,737.47	140.10	41.953		
12,900.00	7,870.00	8,124.14	7,998.06	112.36	33.49	92.85	-6,799.89	3,051.46	5,784.24	5,643.86	140.38	41.205		
13,000.00	7,870.00	8,122.50	7,996.42	112.45	33.49	92.80	-6,799.92	3,051.44	5,691.13	5,550.46	140.67	40.458		
13,100.00	7,870.00	8,120.87	7,994.79	112.56	33.48	92.76	-6,799.94	3,051.42	5,598.26	5,457.29	140.97	39.714		
13,200.00	7,870.00	8,119.24	7,993.16	112.68	33.48	92.72	-6,799.96	3,051.40	5,505.64	5,364.36	141.27	38.971		
13,300.00	7,870.00	8,117.62	7,991.54	112.83	33.47	92.67	-6,799.99	3,051.37	5,413.28	5,271.69	141.59	38.231		
13,400.00	7,870.00	8,116.01	7,989.93	113.00	33.47	92.63	-6,800.01	3,051.35	5,321.20	5,179.27	141.93	37.493		
13,500.00	7,870.00	8,114.41	7,988.33	113.19	33.46	92.58	-6,800.03	3,051.33	5,229.41	5,087.14	142.27	36.757		
13,600.00	7,870.00	8,112.81	7,986.73	113.40	33.46	92.54	-6,800.06	3,051.31	5,137.92	4,995.29	142.63	36.024		
13,700.00	7,870.00	8,111.22	7,985.14	113.63	33.45	92.50	-6,800.08	3,051.29	5,046.76	4,903.76	143.00	35.293		
13,800.00	7,870.00	8,109.64	7,983.56	113.89	33.45	92.45	-6,800.10	3,051.27	4,955.93	4,812.56	143.38	34.566		
13,900.00	7,870.00	8,108.06	7,981.98	114.18	33.44	92.41	-6,800.12	3,051.25	4,865.47	4,721.70	143.77	33.841		
14,000.00	7,870.00	8,106.50	7,980.42	114.48	33.44	92.37	-6,800.14	3,051.23	4,775.39	4,631.20	144.18	33.120		
14,100.00	7,870.00	8,104.94	7,978.86	114.82	33.43	92.32	-6,800.17	3,051.21	4,685.70	4,541.09	144.61	32.402		
14,200.00	7,870.00	8,104.94	7,978.86	114.82	33.43	92.32	-6,800.17	3,051.21	4,596.45	4,451.39	145.05	31.688		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 134-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,300.00	7,870.00	8,103.38	7,977.30	115.18	33.43	92.28	-6,800.19	3,051.19	4,507.64	4,362.13	145.51	30.978		
14,400.00	7,870.00	8,101.84	7,975.76	115.57	33.42	92.24	-6,800.21	3,051.16	4,419.31	4,273.33	145.99	30.272		
14,500.00	7,870.00	8,100.30	7,974.22	115.99	33.42	92.20	-6,800.23	3,051.14	4,331.49	4,185.01	146.48	29.571		
14,600.00	7,870.00	8,098.76	7,972.69	116.44	33.41	92.16	-6,800.25	3,051.12	4,244.21	4,097.22	146.99	28.874		
14,700.00	7,870.00	8,097.24	7,971.16	116.92	33.41	92.11	-6,800.27	3,051.10	4,157.50	4,009.98	147.52	28.182		
14,800.00	7,870.00	8,095.72	7,969.64	117.44	33.40	92.07	-6,800.29	3,051.08	4,071.40	3,923.33	148.07	27.496		
14,900.00	7,870.00	8,094.21	7,968.13	117.98	33.40	92.03	-6,800.32	3,051.06	3,985.94	3,837.30	148.64	26.816		
15,000.00	7,870.00	8,092.70	7,966.62	118.56	33.39	91.99	-6,800.34	3,051.04	3,901.18	3,751.95	149.23	26.142		
15,100.00	7,870.00	8,091.20	7,965.13	119.17	33.39	91.95	-6,800.36	3,051.03	3,817.16	3,667.31	149.84	25.474		
15,200.00	7,870.00	8,089.71	7,963.63	119.81	33.39	91.91	-6,800.38	3,051.01	3,733.92	3,583.44	150.48	24.814		
15,300.00	7,870.00	8,088.22	7,962.15	120.48	33.38	91.87	-6,800.40	3,050.99	3,651.52	3,500.39	151.13	24.162		
15,400.00	7,870.00	8,086.74	7,960.67	121.19	33.38	91.83	-6,800.42	3,050.97	3,570.02	3,418.22	151.81	23.517		
15,500.00	7,870.00	8,085.27	7,959.20	121.93	33.37	91.79	-6,800.44	3,050.95	3,489.49	3,336.98	152.50	22.881		
15,600.00	7,870.00	8,083.81	7,957.73	122.71	33.37	91.75	-6,800.46	3,050.93	3,409.98	3,256.76	153.22	22.255		
15,700.00	7,870.00	8,082.35	7,956.27	123.52	33.36	91.71	-6,800.48	3,050.91	3,331.58	3,177.61	153.97	21.638		
15,800.00	7,870.00	8,080.89	7,954.82	124.36	33.36	91.67	-6,800.50	3,050.89	3,254.36	3,099.63	154.73	21.033		
15,900.00	7,870.00	8,079.45	7,953.37	125.23	33.35	91.63	-6,800.52	3,050.87	3,178.41	3,022.90	155.51	20.439		
16,000.00	7,870.00	8,078.00	7,951.93	126.14	33.35	91.59	-6,800.54	3,050.85	3,103.82	2,947.51	156.31	19.857		
16,100.00	7,870.00	8,076.57	7,950.50	127.07	33.34	91.55	-6,800.55	3,050.83	3,030.70	2,873.58	157.13	19.288		
16,200.00	7,870.00	8,075.14	7,949.07	128.04	33.34	91.51	-6,800.57	3,050.82	2,959.15	2,801.20	157.96	18.734		
16,300.00	7,870.00	8,073.72	7,947.65	129.04	33.33	91.47	-6,800.59	3,050.80	2,889.29	2,730.49	158.80	18.195		
16,400.00	7,870.00	8,072.30	7,946.23	130.06	33.33	91.43	-6,800.61	3,050.78	2,821.24	2,661.60	159.64	17.672		
16,500.00	7,870.00	8,070.89	7,944.82	131.11	33.33	91.39	-6,800.63	3,050.76	2,755.15	2,594.65	160.49	17.167		
16,600.00	7,870.00	8,069.49	7,943.42	132.19	33.32	91.35	-6,800.65	3,050.74	2,691.14	2,529.80	161.34	16.680		
16,700.00	7,870.00	8,068.09	7,942.02	133.29	33.32	91.32	-6,800.67	3,050.72	2,629.38	2,467.20	162.18	16.213		
16,800.00	7,870.00	8,066.70	7,940.63	134.42	33.31	91.28	-6,800.69	3,050.71	2,570.03	2,407.03	162.99	15.768		
16,900.00	7,870.00	8,065.31	7,939.24	135.57	33.31	91.24	-6,800.70	3,050.69	2,513.25	2,349.47	163.79	15.345		
17,000.00	7,870.00	8,063.94	7,937.86	136.75	33.30	91.20	-6,800.72	3,050.67	2,459.23	2,294.69	164.54	14.946		
17,100.00	7,870.00	8,062.56	7,936.49	137.94	33.30	91.16	-6,800.74	3,050.65	2,408.16	2,242.91	165.25	14.573		
17,200.00	7,870.00	8,061.19	7,935.12	139.16	33.30	91.13	-6,800.76	3,050.64	2,360.22	2,194.31	165.90	14.227		
17,300.00	7,870.00	8,059.83	7,933.76	140.39	33.29	91.09	-6,800.78	3,050.62	2,315.60	2,149.12	166.48	13.909		
17,400.00	7,870.00	8,058.47	7,932.40	141.65	33.29	91.05	-6,800.79	3,050.60	2,274.51	2,107.54	166.97	13.622		
17,500.00	7,870.00	8,057.12	7,931.05	142.92	33.28	91.01	-6,800.81	3,050.58	2,237.13	2,069.77	167.36	13.367		
17,600.00	7,870.00	8,055.78	7,929.71	144.21	33.28	90.98	-6,800.83	3,050.57	2,203.66	2,036.03	167.64	13.145		
17,700.00	7,870.00	8,054.44	7,928.37	145.52	33.27	90.94	-6,800.85	3,050.55	2,174.28	2,006.49	167.79	12.958		
17,800.00	7,870.00	8,053.10	7,927.03	146.84	33.27	90.90	-6,800.86	3,050.53	2,149.15	1,981.35	167.80	12.808		
17,900.00	7,870.00	8,051.78	7,925.71	148.18	33.27	90.87	-6,800.88	3,050.52	2,128.43	1,960.77	167.67	12.694		
18,000.00	7,870.00	8,050.45	7,924.38	149.54	33.26	90.83	-6,800.90	3,050.50	2,112.25	1,944.87	167.38	12.620		
18,100.00	7,870.00	8,049.13	7,923.07	150.90	33.26	90.80	-6,800.91	3,050.48	2,100.70	1,933.78	166.92	12.585 SF		
18,200.00	7,870.00	8,047.82	7,921.75	152.28	33.25	90.76	-6,800.93	3,050.47	2,093.87	1,927.56	166.31	12.590		
18,293.26	7,870.00	8,046.60	7,920.54	153.58	33.25	90.73	-6,800.95	3,050.45	2,091.79	1,926.20	165.60	12.632 CC, ES		
18,300.00	7,870.00	8,046.52	7,920.45	153.67	33.25	90.72	-6,800.95	3,050.45	2,091.80	1,926.27	165.54	12.636		
18,400.00	7,870.00	8,045.22	7,919.15	155.07	33.25	90.69	-6,800.96	3,050.43	2,094.51	1,929.90	164.61	12.724		
18,500.00	7,870.00	8,043.92	7,917.85	156.49	33.24	90.65	-6,800.98	3,050.42	2,101.98	1,938.44	163.55	12.853		
18,600.00	7,870.00	8,042.63	7,916.56	157.91	33.24	90.62	-6,801.00	3,050.40	2,114.16	1,951.81	162.35	13.022		
18,700.00	7,870.00	8,041.34	7,915.28	159.35	33.23	90.58	-6,801.01	3,050.38	2,130.96	1,969.93	161.04	13.233		
18,800.00	7,870.00	8,040.06	7,914.00	160.79	33.23	90.55	-6,801.03	3,050.37	2,152.29	1,992.66	159.63	13.483		
18,900.00	7,870.00	8,038.79	7,912.72	162.25	33.23	90.51	-6,801.05	3,050.35	2,178.00	2,019.86	158.14	13.772		
19,000.00	7,870.00	8,037.52	7,911.45	163.71	33.22	90.48	-6,801.06	3,050.33	2,207.94	2,051.34	156.60	14.099		
19,100.00	7,870.00	8,036.26	7,910.19	165.18	33.22	90.44	-6,801.08	3,050.32	2,241.95	2,086.93	155.01	14.463		
19,200.00	7,870.00	8,035.00	7,908.93	166.66	33.21	90.41	-6,801.09	3,050.30	2,279.83	2,126.42	153.41	14.861		
19,300.00	7,870.00	8,033.74	7,907.68	168.15	33.21	90.37	-6,801.11	3,050.29	2,321.41	2,169.61	151.80	15.292		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,400.00	7,870.00	8,032.49	7,906.43	169.65	33.21	90.34	-6,801.12	3,050.27	2,366.49	2,216.28	150.21	15.755	
19,500.00	7,870.00	8,031.25	7,905.18	171.15	33.20	90.31	-6,801.14	3,050.26	2,414.87	2,266.23	148.64	16.247	
19,600.00	7,870.00	8,030.01	7,903.95	172.66	33.20	90.27	-6,801.16	3,050.24	2,466.35	2,319.24	147.11	16.766	
19,700.00	7,870.00	8,028.78	7,902.71	174.18	33.19	90.24	-6,801.17	3,050.22	2,520.75	2,375.13	145.62	17.310	
19,800.00	7,870.00	8,027.55	7,901.48	175.70	33.19	90.20	-6,801.19	3,050.21	2,577.89	2,433.70	144.19	17.878	
19,889.26	7,870.00	8,026.46	7,900.39	177.06	33.19	90.18	-6,801.20	3,050.19	2,631.04	2,488.08	142.96	18.404	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	163.78	-7,146.88	2,079.62	7,443.34					
100.00	100.00	44.15	44.14	0.13	0.08	163.77	-7,146.99	2,080.11	7,443.97	7,443.76	0.20	N/A		
200.00	200.00	86.80	86.77	0.49	0.18	163.76	-7,147.27	2,081.49	7,445.47	7,444.81	0.65	N/A		
300.00	300.00	164.20	164.11	0.85	0.44	163.74	-7,148.03	2,084.37	7,447.45	7,446.16	1.29	5,770.278		
400.00	399.98	227.00	226.87	1.21	0.67	95.54	-7,148.85	2,086.71	7,449.95	7,448.08	1.87	3,978.918		
500.00	499.84	281.87	281.69	1.56	0.87	95.48	-7,149.85	2,088.85	7,453.35	7,450.92	2.43	3,069.715		
600.00	599.45	318.00	317.77	1.93	1.00	95.40	-7,150.73	2,090.36	7,457.81	7,454.88	2.93	2,547.761		
700.00	698.70	376.73	376.40	2.32	1.22	95.33	-7,152.44	2,093.37	7,463.27	7,459.74	3.53	2,116.212		
800.00	797.47	410.00	409.58	2.72	1.35	95.22	-7,153.51	2,095.51	7,469.80	7,465.74	4.06	1,842.038		
900.00	895.62	410.00	409.58	3.16	1.35	95.06	-7,153.51	2,095.51	7,477.82	7,473.33	4.49	1,665.480		
1,000.00	993.06	457.28	456.69	3.63	1.53	94.94	-7,155.64	2,098.89	7,486.76	7,481.63	5.13	1,458.532		
1,100.00	1,089.64	502.00	501.18	4.14	1.70	94.80	-7,158.68	2,102.31	7,497.48	7,491.67	5.81	1,291.524		
1,200.00	1,185.27	502.00	501.18	4.70	1.70	94.57	-7,158.68	2,102.31	7,509.16	7,502.81	6.35	1,181.857		
1,300.00	1,279.82	502.00	501.18	5.31	1.70	94.30	-7,158.68	2,102.31	7,522.43	7,515.48	6.95	1,082.490		
1,400.00	1,373.17	547.69	546.54	5.97	1.89	94.11	-7,162.59	2,106.18	7,536.75	7,528.98	7.77	970.010		
1,500.00	1,465.21	594.00	592.40	6.69	2.08	93.92	-7,167.20	2,110.65	7,552.51	7,543.87	8.65	873.417		
1,600.00	1,555.84	594.00	592.40	7.47	2.08	93.58	-7,167.20	2,110.65	7,569.27	7,559.87	9.40	805.001		
1,700.00	1,644.94	631.06	629.01	8.31	2.24	93.32	-7,171.23	2,114.74	7,587.27	7,576.90	10.37	731.891		
1,800.00	1,732.39	686.00	683.12	9.23	2.47	93.10	-7,177.57	2,121.82	7,606.46	7,594.99	11.46	663.482		
1,900.00	1,818.11	703.35	700.17	10.21	2.55	92.75	-7,179.64	2,124.30	7,626.51	7,614.04	12.48	611.295		
2,000.00	1,901.97	768.24	763.80	11.26	2.85	92.55	-7,187.26	2,134.47	7,647.44	7,633.68	13.76	555.921		
2,100.00	1,983.88	801.87	796.70	12.38	3.02	92.22	-7,191.22	2,140.23	7,669.17	7,654.20	14.97	512.258		
2,200.00	2,063.74	829.45	823.62	13.57	3.15	91.85	-7,194.67	2,145.10	7,691.96	7,675.74	16.23	474.078		
2,300.00	2,141.45	855.00	848.53	14.84	3.27	91.46	-7,198.02	2,149.71	7,715.79	7,698.26	17.53	440.057		
2,327.78	2,162.65	855.00	848.53	15.21	3.27	91.32	-7,198.02	2,149.71	7,722.61	7,704.74	17.87	432.043		
2,400.00	2,217.51	888.81	881.43	16.17	3.45	91.46	-7,202.65	2,155.97	7,740.59	7,721.66	18.93	408.807		
2,500.00	2,293.49	942.00	933.07	17.51	3.72	91.68	-7,210.33	2,166.14	7,766.34	7,745.90	20.44	379.981		
2,600.00	2,369.47	942.00	933.07	18.86	3.72	91.68	-7,210.33	2,166.14	7,792.82	7,771.13	21.69	359.331		
2,700.00	2,445.45	977.46	967.41	20.22	3.91	91.82	-7,215.78	2,173.09	7,820.24	7,797.12	23.11	338.347		
2,800.00	2,521.42	1,003.76	992.83	21.59	4.05	91.93	-7,220.02	2,178.31	7,848.58	7,824.09	24.49	320.458		
2,900.00	2,597.40	1,036.00	1,023.95	22.97	4.23	92.06	-7,225.46	2,184.78	7,877.82	7,851.92	25.90	304.137		
3,000.00	2,673.38	1,070.11	1,056.82	24.34	4.42	92.19	-7,231.41	2,191.65	7,907.89	7,880.57	27.32	289.462		
3,100.00	2,749.36	3,100.00	1,150.78	25.73	15.97	92.58	-7,248.65	2,210.99	7,938.47	7,900.20	38.27	207.443		
3,200.00	2,825.33	1,236.81	1,217.60	27.11	5.36	92.86	-7,260.70	2,224.54	7,969.12	7,938.43	30.69	259.670		
3,300.00	2,901.31	1,289.00	1,267.78	28.50	5.66	93.06	-7,270.14	2,235.31	8,000.64	7,968.43	32.21	248.425		
3,400.00	2,977.29	1,289.00	1,267.78	29.90	5.66	93.06	-7,270.14	2,235.31	8,032.80	7,999.38	33.42	240.368		
3,500.00	3,053.27	1,350.54	1,326.78	31.29	6.02	93.30	-7,281.68	2,248.50	8,065.71	8,030.72	34.99	230.530		
3,600.00	3,129.24	1,404.11	1,378.06	32.69	6.34	93.50	-7,291.92	2,260.12	8,099.20	8,062.69	36.51	221.847		
3,700.00	3,205.22	1,463.00	1,434.36	34.08	6.70	93.73	-7,303.33	2,273.10	8,133.24	8,095.18	38.06	213.699		
3,800.00	3,281.20	1,491.07	1,461.15	35.48	6.88	93.83	-7,308.89	2,279.35	8,167.91	8,128.50	39.42	207.218		
3,900.00	3,357.18	1,520.68	1,489.37	36.88	7.06	93.94	-7,314.92	2,285.99	8,203.37	8,162.59	40.78	201.180		
4,000.00	3,433.15	1,550.00	1,517.26	38.29	7.25	94.05	-7,321.07	2,292.61	8,239.60	8,197.47	42.13	195.596		
4,100.00	3,509.13	1,595.20	1,560.18	39.69	7.54	94.22	-7,330.76	2,302.96	8,276.51	8,232.94	43.58	189.936		
4,200.00	3,585.11	1,638.00	1,600.74	41.09	7.82	94.37	-7,340.10	2,312.95	8,314.03	8,269.03	45.00	184.744		
4,300.00	3,661.08	1,667.24	1,628.39	42.50	8.01	94.48	-7,346.61	2,319.88	8,352.23	8,305.89	46.33	180.258		
4,400.00	3,737.06	1,695.02	1,654.60	43.90	8.20	94.58	-7,352.97	2,326.53	8,391.18	8,343.53	47.65	176.109		
4,500.00	3,813.04	4,500.00	2,073.19	45.31	25.97	96.15	-7,447.83	2,430.46	8,430.39	8,366.15	64.24	131.238		
4,600.00	3,889.02	2,233.82	2,166.14	46.71	11.71	96.49	-7,466.27	2,451.80	8,466.38	8,412.73	53.65	157.802		
4,700.00	3,964.99	2,279.08	2,209.39	48.12	12.00	96.65	-7,474.95	2,461.91	8,502.83	8,447.73	55.10	154.320		
4,800.00	4,040.97	2,336.00	2,263.60	49.53	12.36	96.85	-7,486.14	2,475.16	8,539.95	8,483.32	56.62	150.820		
4,900.00	4,116.95	2,362.17	2,288.48	50.94	12.53	96.94	-7,491.40	2,481.34	8,577.61	8,519.68	57.93	148.079		
5,000.00	4,192.93	2,619.64	2,534.75	52.35	14.15	97.83	-7,541.30	2,537.37	8,614.92	8,554.09	60.83	141.623		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,268.90	2,654.09	2,567.81	53.76	14.36	97.95	-7,547.74	2,544.62	8,651.82	8,589.64	62.18	139.134		
5,200.00	4,344.88	2,685.00	2,597.41	55.16	14.55	98.06	-7,553.66	2,551.26	8,689.39	8,625.89	63.50	136.835		
5,300.00	4,420.86	2,744.47	2,654.22	56.57	14.93	98.26	-7,565.26	2,564.52	8,727.51	8,662.48	65.03	134.214		
5,400.00	4,496.84	5,400.00	2,853.17	57.98	32.09	98.94	-7,604.38	2,614.51	8,765.12	8,683.76	81.35	107.740		
5,500.00	4,572.81	3,001.07	2,898.74	59.39	16.59	99.09	-7,613.09	2,625.84	8,802.70	8,733.59	69.11	127.378		
5,600.00	4,648.79	3,035.00	2,931.12	60.81	16.81	99.20	-7,619.46	2,633.69	8,840.91	8,770.47	70.44	125.507		
5,700.00	4,724.77	3,072.29	2,966.70	62.22	17.05	99.33	-7,626.66	2,642.26	8,879.75	8,807.96	71.79	123.689		
5,800.00	4,800.74	3,122.00	3,014.01	63.63	17.37	99.49	-7,636.61	2,653.83	8,919.29	8,846.07	73.23	121.803		
5,900.00	4,876.72	3,122.00	3,014.01	65.04	17.37	99.49	-7,636.61	2,653.83	8,959.43	8,885.16	74.27	120.628		
6,000.00	4,952.70	3,166.22	3,056.00	66.45	17.67	99.63	-7,645.82	2,664.17	9,000.20	8,924.55	75.65	118.968		
6,100.00	5,028.68	3,209.00	3,096.56	67.86	17.95	99.76	-7,655.08	2,674.14	9,041.69	8,964.67	77.01	117.405		
6,200.00	5,104.65	3,209.00	3,096.56	69.27	17.95	99.76	-7,655.08	2,674.14	9,083.81	9,005.79	78.02	116.428		
6,300.00	5,180.63	3,244.08	3,129.73	70.69	18.19	99.87	-7,662.97	2,682.36	9,126.59	9,047.28	79.30	115.086		
6,400.00	5,256.61	3,266.29	3,150.68	72.10	18.34	99.94	-7,668.15	2,687.61	9,170.09	9,089.63	80.47	113.959		
6,500.00	5,332.59	3,634.84	3,497.96	73.51	20.91	101.05	-7,760.05	2,779.80	9,213.33	9,128.77	84.57	108.949		
6,600.00	5,408.56	3,672.99	3,533.96	74.92	21.17	101.16	-7,757.94	2,789.64	9,255.06	9,169.18	85.89	107.761		
6,700.00	5,484.54	3,703.54	3,562.78	76.34	21.38	101.25	-7,764.44	2,797.42	9,297.41	9,210.27	87.13	106.705		
6,800.00	5,560.52	3,733.00	3,590.55	77.75	21.59	101.34	-7,770.87	2,804.84	9,340.36	9,252.00	88.36	105.708		
6,900.00	5,636.50	3,770.92	3,626.29	79.16	21.85	101.45	-7,779.33	2,814.30	9,383.89	9,294.24	89.65	104.673		
7,000.00	5,712.47	3,820.00	3,672.51	80.57	22.19	101.59	-7,790.55	2,826.39	9,427.98	9,336.95	91.03	103.572		
7,100.00	5,788.45	3,857.51	3,707.81	81.99	22.46	101.70	-7,799.26	2,835.61	9,472.54	9,380.24	92.30	102.629		
7,200.00	5,864.43	3,908.00	3,755.28	83.40	22.81	101.85	-7,811.10	2,848.09	9,517.49	9,423.81	93.68	101.598		
7,300.00	5,940.40	3,959.87	3,804.10	84.81	23.17	102.00	-7,823.40	2,860.58	9,562.84	9,467.78	95.06	100.602		
7,400.00	6,016.38	6,314.49	6,105.18	86.23	33.54	109.96	-8,089.90	3,131.05	9,590.82	9,481.62	109.20	87.826		
7,500.00	6,092.36	6,411.42	6,202.10	87.64	33.73	110.34	-8,089.07	3,129.96	9,618.14	9,507.57	110.58	86.981		
7,600.00	6,168.34	6,506.30	6,296.96	89.05	33.92	110.70	-8,088.05	3,128.82	9,645.68	9,533.74	111.94	86.169		
7,700.00	6,244.31	6,609.29	6,399.94	90.47	34.12	111.09	-8,086.71	3,127.61	9,673.40	9,560.09	113.32	85.367		
7,800.00	6,320.29	6,715.05	6,505.68	91.88	34.34	111.49	-8,085.02	3,126.59	9,701.26	9,586.57	114.69	84.587		
7,900.00	6,396.27	6,781.14	6,571.77	93.30	34.48	111.74	-8,083.93	3,126.10	9,729.41	9,613.44	115.97	83.895		
8,000.00	6,472.25	6,852.13	6,642.75	94.71	34.62	112.01	-8,082.80	3,125.71	9,757.95	9,640.70	117.25	83.221		
8,100.00	6,548.22	6,916.76	6,707.37	96.12	34.77	112.25	-8,081.84	3,125.51	9,786.90	9,668.38	118.52	82.576		
8,200.00	6,624.20	6,978.36	6,768.96	97.54	34.91	112.47	-8,081.04	3,125.56	9,816.30	9,696.52	119.77	81.958		
8,300.00	6,700.18	7,040.27	6,830.87	98.95	35.05	112.70	-8,080.35	3,125.85	9,846.14	9,725.12	121.02	81.362		
8,400.00	6,776.16	7,096.78	6,887.37	100.37	35.19	112.90	-8,079.84	3,126.33	9,876.45	9,754.20	122.25	80.789		
8,500.00	6,852.13	7,152.48	6,943.06	101.78	35.33	113.10	-8,079.49	3,127.02	9,907.24	9,783.77	123.47	80.238		
8,600.00	6,928.11	7,208.41	6,998.99	103.20	35.47	113.30	-8,079.28	3,127.92	9,938.51	9,813.82	124.69	79.707		
8,700.00	7,004.09	7,270.40	7,060.96	104.61	35.63	113.52	-8,079.20	3,129.15	9,970.23	9,844.31	125.92	79.178		
9,750.00	7,767.01	7,958.54	7,748.31	116.23	37.71	57.32	-8,085.69	3,159.90	9,978.77	9,840.08	138.69	71.950		
9,800.00	7,790.63	7,974.24	7,763.99	116.33	37.76	56.57	-8,085.91	3,160.66	9,943.33	9,804.28	139.05	71.510		
9,850.00	7,811.44	7,988.15	7,777.89	116.38	37.80	56.46	-8,086.13	3,161.33	9,905.09	9,765.73	139.37	71.073		
9,900.00	7,829.28	8,000.18	7,789.91	116.38	37.84	57.11	-8,086.32	3,161.90	9,864.34	9,724.70	139.64	70.642		
9,950.00	7,844.01	8,010.24	7,799.95	116.35	37.87	58.71	-8,086.48	3,162.37	9,821.35	9,681.48	139.87	70.217		
10,000.00	7,855.52	8,018.23	7,807.93	116.28	37.89	61.61	-8,086.62	3,162.74	9,776.45	9,636.39	140.06	69.799		
10,050.00	7,863.72	8,024.11	7,813.80	116.18	37.91	66.51	-8,086.72	3,163.01	9,729.96	9,589.74	140.22	69.390		
10,100.00	7,868.56	8,027.80	7,817.49	116.06	37.92	74.82	-8,086.78	3,163.18	9,682.21	9,541.86	140.34	68.990		
10,145.94	7,870.00	8,029.25	7,818.94	115.92	37.93	87.82	-8,086.81	3,163.24	9,637.53	9,497.11	140.43	68.631		
10,200.00	7,870.00	8,029.85	7,819.54	115.76	37.93	87.84	-8,086.82	3,163.27	9,584.63	9,444.12	140.51	68.214		
10,300.00	7,870.00	8,030.96	7,820.65	115.46	37.93	87.87	-8,086.84	3,163.32	9,486.80	9,346.13	140.66	67.444		
10,400.00	7,870.00	8,032.08	7,821.77	115.18	37.94	87.90	-8,086.86	3,163.37	9,389.01	9,248.19	140.82	66.673		
10,500.00	7,870.00	8,033.21	7,822.89	114.91	37.94	87.94	-8,086.88	3,163.42	9,291.27	9,150.29	140.98	65.903		
10,600.00	7,870.00	8,034.34	7,824.03	114.65	37.94	87.97	-8,086.90	3,163.48	9,193.59	9,052.43	141.15	65.133		
10,700.00	7,870.00	8,035.49	7,825.17	114.41	37.95	88.00	-8,086.92	3,163.53	9,095.95	8,954.62	141.32	64.363		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
10,800.00	7,870.00	8,036.64	7,826.32	114.17	37.95	88.04	-8,086.94	3,163.58	8,998.36	8,856.86	141.50	63.593		
10,900.00	7,870.00	8,037.79	7,827.47	113.95	37.96	88.07	-8,086.96	3,163.63	8,900.83	8,759.15	141.68	62.824		
11,000.00	7,870.00	8,038.96	7,828.64	113.75	37.96	88.10	-8,086.98	3,163.68	8,803.35	8,661.48	141.86	62.055		
11,100.00	7,870.00	8,040.13	7,829.81	113.55	37.96	88.14	-8,087.00	3,163.74	8,705.93	8,563.87	142.05	61.287		
11,200.00	7,870.00	8,041.31	7,830.99	113.37	37.97	88.17	-8,087.02	3,163.79	8,608.56	8,466.32	142.25	60.519		
11,300.00	7,870.00	8,042.50	7,832.17	113.20	37.97	88.21	-8,087.05	3,163.84	8,511.26	8,368.82	142.45	59.751		
11,400.00	7,870.00	8,043.70	7,833.37	113.04	37.97	88.24	-8,087.07	3,163.90	8,414.02	8,271.37	142.65	58.984		
11,500.00	7,870.00	8,044.90	7,834.57	112.89	37.98	88.28	-8,087.09	3,163.95	8,316.85	8,173.99	142.86	58.217		
11,600.00	7,870.00	8,046.12	7,835.79	112.76	37.98	88.31	-8,087.11	3,164.00	8,219.74	8,076.67	143.08	57.451		
11,700.00	7,870.00	8,047.34	7,837.01	112.64	37.99	88.35	-8,087.14	3,164.06	8,122.71	7,979.41	143.30	56.685		
11,800.00	7,870.00	8,048.57	7,838.23	112.53	37.99	88.38	-8,087.16	3,164.11	8,025.74	7,882.22	143.52	55.919		
11,900.00	7,870.00	8,049.81	7,839.47	112.44	37.99	88.42	-8,087.18	3,164.17	7,928.85	7,785.10	143.76	55.155		
12,000.00	7,870.00	8,051.05	7,840.72	112.36	38.00	88.45	-8,087.21	3,164.22	7,832.04	7,688.05	144.00	54.390		
12,100.00	7,870.00	8,052.31	7,841.97	112.29	38.00	88.49	-8,087.23	3,164.28	7,735.31	7,591.07	144.24	53.627		
12,200.00	7,870.00	8,053.57	7,843.23	112.24	38.00	88.53	-8,087.25	3,164.34	7,638.67	7,494.17	144.50	52.864		
12,300.00	7,870.00	8,054.84	7,844.50	112.20	38.01	88.56	-8,087.28	3,164.39	7,542.11	7,397.35	144.76	52.102		
12,400.00	7,870.00	8,056.13	7,845.78	112.17	38.01	88.60	-8,087.30	3,164.45	7,445.64	7,300.62	145.02	51.341		
12,500.00	7,870.00	8,057.42	7,847.07	112.16	38.02	88.64	-8,087.33	3,164.51	7,349.27	7,203.97	145.30	50.580		
12,600.00	7,870.00	8,058.72	7,848.37	112.17	38.02	88.68	-8,087.35	3,164.56	7,252.99	7,107.41	145.58	49.820		
12,700.00	7,870.00	8,060.03	7,849.68	112.19	38.03	88.71	-8,087.38	3,164.62	7,156.81	7,010.94	145.87	49.062		
12,800.00	7,870.00	8,061.34	7,851.00	112.23	38.03	88.75	-8,087.40	3,164.68	7,060.75	6,914.57	146.17	48.304		
12,900.00	7,870.00	8,062.67	7,852.32	112.28	38.03	88.79	-8,087.43	3,164.74	6,964.79	6,818.30	146.48	47.547		
13,000.00	7,870.00	8,064.01	7,853.66	112.36	38.04	88.83	-8,087.45	3,164.80	6,868.94	6,722.14	146.80	46.791		
13,100.00	7,870.00	8,065.36	7,855.00	112.45	38.04	88.87	-8,087.48	3,164.86	6,773.22	6,626.09	147.13	46.036		
13,200.00	7,870.00	8,066.71	7,856.36	112.56	38.05	88.91	-8,087.51	3,164.91	6,677.62	6,530.15	147.47	45.282		
13,300.00	7,870.00	8,068.08	7,857.72	112.68	38.05	88.95	-8,087.53	3,164.97	6,582.15	6,434.34	147.81	44.530		
13,400.00	7,870.00	8,069.46	7,859.10	112.83	38.05	88.99	-8,087.56	3,165.03	6,486.82	6,338.65	148.17	43.779		
13,500.00	7,870.00	8,070.84	7,860.48	113.00	38.06	89.03	-8,087.59	3,165.09	6,391.63	6,243.09	148.54	43.029		
13,600.00	7,870.00	8,072.24	7,861.88	113.19	38.06	89.07	-8,087.61	3,165.16	6,296.59	6,147.66	148.93	42.280		
13,700.00	7,870.00	8,073.64	7,863.28	113.40	38.07	89.11	-8,087.64	3,165.22	6,201.70	6,052.38	149.32	41.533		
13,800.00	7,870.00	8,075.06	7,864.70	113.63	38.07	89.15	-8,087.67	3,165.28	6,106.98	5,957.25	149.73	40.788		
13,900.00	7,870.00	8,076.49	7,866.12	113.89	38.08	89.19	-8,087.70	3,165.34	6,012.43	5,862.28	150.15	40.044		
14,000.00	7,870.00	8,077.93	7,867.56	114.18	38.08	89.23	-8,087.73	3,165.40	5,918.05	5,767.47	150.58	39.302		
14,100.00	7,870.00	8,079.38	7,869.01	114.48	38.09	89.27	-8,087.76	3,165.46	5,823.87	5,672.84	151.03	38.562		
14,200.00	7,870.00	8,080.84	7,870.46	114.82	38.09	89.32	-8,087.79	3,165.53	5,729.88	5,578.39	151.49	37.823		
14,300.00	7,870.00	8,082.31	7,871.93	115.18	38.10	89.36	-8,087.82	3,165.59	5,636.09	5,484.12	151.97	37.087		
14,400.00	7,870.00	8,083.79	7,873.41	115.57	38.10	89.40	-8,087.85	3,165.65	5,542.53	5,390.06	152.46	36.353		
14,500.00	7,870.00	8,085.28	7,874.90	115.99	38.10	89.45	-8,087.88	3,165.72	5,449.19	5,296.21	152.98	35.621		
14,600.00	7,870.00	8,086.78	7,876.41	116.44	38.11	89.49	-8,087.91	3,165.78	5,356.09	5,202.58	153.51	34.892		
14,700.00	7,870.00	8,088.30	7,877.92	116.92	38.11	89.53	-8,087.94	3,165.85	5,263.24	5,109.19	154.05	34.165		
14,800.00	7,870.00	8,089.80	7,887.61	117.44	38.14	89.81	-8,088.14	3,166.26	5,170.67	5,016.00	154.67	33.430		
14,900.00	7,870.00	8,098.00	7,887.61	117.98	38.14	89.81	-8,088.14	3,166.26	5,078.37	4,923.12	155.25	32.711		
15,000.00	7,870.00	8,098.00	7,887.61	118.56	38.14	89.81	-8,088.14	3,166.26	4,986.36	4,830.51	155.85	31.995		
15,100.00	7,870.00	8,098.00	7,887.61	119.17	38.14	89.81	-8,088.14	3,166.26	4,894.67	4,738.20	156.47	31.282		
15,200.00	7,870.00	8,098.00	7,887.61	119.81	38.14	89.81	-8,088.14	3,166.26	4,803.31	4,646.19	157.12	30.572		
15,300.00	7,870.00	8,098.00	7,887.61	120.48	38.14	89.81	-8,088.14	3,166.26	4,712.30	4,554.52	157.78	29.866		
15,400.00	7,870.00	8,100.57	7,890.17	121.19	38.15	89.89	-8,088.20	3,166.36	4,621.66	4,463.17	158.49	29.160		
15,500.00	7,870.00	8,103.79	7,893.40	121.93	38.16	89.98	-8,088.26	3,166.50	4,531.41	4,372.18	159.23	28.458		
15,600.00	7,870.00	8,106.92	7,896.52	122.71	38.17	90.07	-8,088.33	3,166.63	4,441.59	4,281.59	160.00	27.760		
15,700.00	7,870.00	8,109.95	7,899.54	123.52	38.18	90.16	-8,088.39	3,166.76	4,352.20	4,191.41	160.79	27.067		
15,800.00	7,870.00	8,112.88	7,902.47	124.36	38.19	90.25	-8,088.45	3,166.88	4,263.28	4,101.67	161.61	26.379		
15,900.00	7,870.00	8,115.73	7,905.32	125.23	38.20	90.33	-8,088.50	3,167.00	4,174.86	4,012.40	162.47	25.697		

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

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 24-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
16,000.00	7,870.00	8,118.49	7,908.08	126.14	38.21	90.41	-8,088.55	3,167.11	4,086.98	3,923.63	163.35	25.019		
16,100.00	7,870.00	8,121.17	7,910.76	127.07	38.22	90.49	-8,088.61	3,167.22	3,999.66	3,835.39	164.27	24.348		
16,200.00	7,870.00	8,123.78	7,913.36	128.04	38.22	90.56	-8,088.65	3,167.33	3,912.95	3,747.73	165.22	23.684		
16,300.00	7,870.00	8,126.31	7,915.89	129.04	38.23	90.64	-8,088.70	3,167.43	3,826.89	3,660.68	166.20	23.025		
16,400.00	7,870.00	8,128.77	7,918.34	130.06	38.24	90.71	-8,088.74	3,167.54	3,741.52	3,574.29	167.22	22.374		
16,500.00	7,870.00	8,131.16	7,920.73	131.11	38.25	90.78	-8,088.79	3,167.63	3,656.88	3,488.61	168.28	21.731		
16,600.00	7,870.00	8,133.49	7,923.06	132.19	38.25	90.85	-8,088.83	3,167.73	3,573.05	3,403.67	169.37	21.096		
16,700.00	7,870.00	8,135.75	7,925.32	133.29	38.26	90.91	-8,088.87	3,167.82	3,490.06	3,319.56	170.50	20.469		
16,800.00	7,870.00	8,137.96	7,927.52	134.42	38.27	90.97	-8,088.91	3,167.91	3,407.98	3,236.31	171.67	19.852		
16,900.00	7,870.00	8,140.10	7,929.67	135.57	38.27	91.04	-8,088.94	3,168.00	3,326.89	3,154.01	172.88	19.244		
17,000.00	7,870.00	8,142.19	7,931.76	136.75	38.28	91.10	-8,088.98	3,168.09	3,246.85	3,072.72	174.12	18.647		
17,100.00	7,870.00	8,144.23	7,933.79	137.94	38.29	91.16	-8,089.01	3,168.17	3,167.94	2,992.54	175.40	18.061		
17,200.00	7,870.00	8,146.22	7,935.78	139.16	38.29	91.22	-8,089.04	3,168.25	3,090.25	2,913.53	176.71	17.487		
17,300.00	7,870.00	8,148.16	7,937.72	140.39	38.30	91.27	-8,089.07	3,168.33	3,013.87	2,835.81	178.06	16.926		
17,400.00	7,870.00	8,150.05	7,939.60	141.65	38.30	91.33	-8,089.10	3,168.40	2,938.92	2,759.48	179.44	16.378		
17,500.00	7,870.00	8,151.89	7,941.45	142.92	38.31	91.38	-8,089.13	3,168.48	2,865.49	2,684.65	180.84	15.845		
17,600.00	7,870.00	8,153.69	7,943.24	144.21	38.31	91.43	-8,089.16	3,168.55	2,793.71	2,611.45	182.26	15.328		
17,700.00	7,870.00	8,155.45	7,945.00	145.52	38.32	91.48	-8,089.19	3,168.62	2,723.71	2,540.01	183.70	14.827		
17,800.00	7,870.00	8,157.17	7,946.72	146.84	38.33	91.53	-8,089.21	3,168.69	2,655.63	2,470.49	185.14	14.344		
17,900.00	7,870.00	8,158.84	7,948.39	148.18	38.33	91.58	-8,089.24	3,168.76	2,589.62	2,403.05	186.58	13.880		
18,000.00	7,870.00	8,160.48	7,950.03	149.54	38.34	91.63	-8,089.26	3,168.82	2,525.85	2,337.85	188.00	13.435		
18,100.00	7,870.00	8,162.08	7,951.63	150.90	38.34	91.68	-8,089.29	3,168.89	2,464.49	2,275.09	189.39	13.013		
18,200.00	7,870.00	8,163.65	7,953.19	152.28	38.34	91.72	-8,089.31	3,168.95	2,405.71	2,214.98	190.74	12.613		
18,300.00	7,870.00	8,165.18	7,954.72	153.67	38.35	91.77	-8,089.33	3,169.01	2,349.72	2,157.71	192.02	12.237		
18,400.00	7,870.00	8,166.68	7,956.22	155.07	38.35	91.81	-8,089.35	3,169.07	2,296.73	2,103.52	193.21	11.887		
18,500.00	7,870.00	8,168.14	7,957.68	156.49	38.36	91.85	-8,089.37	3,169.13	2,246.93	2,052.64	194.29	11.565		
18,600.00	7,870.00	8,169.57	7,959.11	157.91	38.36	91.89	-8,089.39	3,169.19	2,200.55	2,005.31	195.25	11.271		
18,700.00	7,870.00	8,170.98	7,960.52	159.35	38.37	91.94	-8,089.41	3,169.24	2,157.82	1,961.78	196.04	11.007		
18,800.00	7,870.00	8,172.35	7,961.89	160.79	38.37	91.98	-8,089.43	3,169.30	2,118.94	1,922.30	196.64	10.776		
18,900.00	7,870.00	8,173.70	7,963.23	162.25	38.38	92.01	-8,089.45	3,169.35	2,084.14	1,887.11	197.03	10.578		
19,000.00	7,870.00	8,175.02	7,964.55	163.71	38.38	92.05	-8,089.47	3,169.40	2,053.62	1,856.45	197.18	10.415		
19,100.00	7,870.00	8,176.31	7,965.84	165.18	38.38	92.09	-8,089.48	3,169.45	2,027.58	1,830.52	197.07	10.289		
19,200.00	7,870.00	8,177.57	7,967.10	166.66	38.39	92.13	-8,089.50	3,169.50	2,006.19	1,809.52	196.67	10.201		
19,300.00	7,870.00	8,178.81	7,968.34	168.15	38.39	92.16	-8,089.52	3,169.55	1,989.60	1,793.62	195.99	10.152		
19,400.00	7,870.00	8,180.03	7,969.56	169.65	38.40	92.20	-8,089.53	3,169.60	1,977.94	1,782.93	195.01	10.143 SF		
19,500.00	7,870.00	8,181.22	7,970.75	171.15	38.40	92.23	-8,089.55	3,169.65	1,971.28	1,777.56	193.73	10.176		
19,581.47	7,870.00	8,182.17	7,971.70	172.38	38.40	92.26	-8,089.56	3,169.69	1,969.60	1,777.13	192.47	10.233 CC, ES		
19,600.00	7,870.00	8,182.39	7,971.92	172.66	38.40	92.27	-8,089.56	3,169.69	1,969.68	1,777.53	192.16	10.250		
19,700.00	7,870.00	8,183.53	7,973.06	174.18	38.41	92.30	-8,089.58	3,169.74	1,973.16	1,782.84	190.32	10.368		
19,800.00	7,870.00	8,184.66	7,974.19	175.70	38.41	92.33	-8,089.59	3,169.78	1,981.68	1,793.45	188.23	10.528		
19,889.26	7,870.00	8,185.65	7,975.17	177.06	38.41	92.36	-8,089.60	3,169.82	1,993.50	1,807.31	186.19	10.707		

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

Anticollision Report

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

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 43-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	12.35	12.35	0.00	0.02	163.87	-7,163.65	2,071.79	7,457.23					
100.00	100.00	65.60	65.60	0.13	0.14	163.87	-7,163.83	2,072.08	7,457.71	7,457.44	0.27	N/A		
200.00	200.00	135.00	134.99	0.49	0.39	163.86	-7,164.34	2,073.20	7,458.81	7,457.93	0.88	8,498.920		
300.00	300.00	180.91	180.88	0.85	0.55	163.85	-7,164.82	2,074.37	7,460.44	7,459.04	1.40	5,321.346		
400.00	399.98	227.00	226.94	1.21	0.72	95.66	-7,165.43	2,075.79	7,462.82	7,460.90	1.92	3,881.755		
500.00	499.84	266.75	266.65	1.56	0.86	95.59	-7,166.14	2,077.45	7,466.31	7,463.89	2.42	3,079.694		
600.00	599.45	318.00	317.79	1.93	1.05	95.51	-7,167.47	2,080.53	7,471.15	7,468.17	2.98	2,508.140		
700.00	698.70	318.00	317.79	2.32	1.05	95.39	-7,167.47	2,080.53	7,477.10	7,473.74	3.36	2,222.803		
800.00	797.47	351.76	351.44	2.72	1.18	95.27	-7,168.71	2,083.05	7,484.40	7,480.51	3.90	1,921.017		
900.00	895.62	375.78	375.35	3.16	1.28	95.12	-7,169.84	2,085.02	7,493.06	7,488.64	4.42	1,695.507		
1,000.00	993.06	410.00	409.37	3.63	1.41	94.96	-7,171.81	2,088.07	7,503.06	7,498.05	5.01	1,496.649		
1,100.00	1,089.64	410.00	409.37	4.14	1.41	94.74	-7,171.81	2,088.07	7,514.36	7,508.84	5.52	1,361.693		
1,200.00	1,185.27	454.28	453.35	4.70	1.58	94.56	-7,174.96	2,092.17	7,526.81	7,520.57	6.23	1,207.379		
1,300.00	1,279.82	502.00	500.69	5.31	1.77	94.38	-7,179.13	2,096.47	7,540.63	7,533.62	7.01	1,075.772		
1,400.00	1,373.17	502.00	500.69	5.97	1.77	94.08	-7,179.13	2,096.47	7,555.49	7,547.84	7.65	987.079		
1,500.00	1,465.21	537.17	535.54	6.69	1.92	93.85	-7,182.71	2,099.55	7,571.62	7,563.13	8.49	892.038		
1,600.00	1,555.84	564.11	562.21	7.47	2.03	93.57	-7,185.73	2,101.84	7,588.94	7,579.59	9.35	811.964		
1,700.00	1,644.94	594.00	591.78	8.31	2.16	93.29	-7,189.38	2,104.33	7,607.44	7,597.16	10.27	740.390		
1,800.00	1,732.39	623.69	621.12	9.23	2.28	93.00	-7,193.27	2,106.67	7,627.05	7,615.78	11.26	677.142		
1,900.00	1,818.11	657.06	654.07	10.21	2.42	92.70	-7,197.91	2,109.07	7,647.72	7,635.39	12.33	620.326		
2,000.00	1,901.97	686.00	682.64	11.26	2.55	92.37	-7,202.17	2,110.96	7,669.43	7,656.00	13.44	570.680		
2,100.00	1,983.88	686.00	682.64	12.38	2.55	91.90	-7,202.17	2,110.96	7,692.39	7,677.89	14.50	530.571		
2,200.00	2,063.74	722.66	718.76	13.57	2.71	91.57	-7,208.05	2,113.14	7,716.29	7,700.52	15.77	489.424		
2,300.00	2,141.45	739.08	734.90	14.84	2.78	91.13	-7,210.90	2,114.04	7,741.44	7,724.43	17.02	454.958		
2,327.78	2,162.65	743.52	739.27	15.21	2.80	91.00	-7,211.69	2,114.28	7,748.63	7,731.26	17.37	446.026		
2,400.00	2,217.51	778.00	773.08	16.17	2.95	91.17	-7,218.19	2,116.02	7,767.86	7,749.45	18.40	422.080		
2,500.00	2,293.49	778.00	773.08	17.51	2.95	91.17	-7,218.19	2,116.02	7,795.02	7,775.38	19.64	396.881		
2,600.00	2,369.47	778.00	773.08	18.86	2.95	91.17	-7,218.19	2,116.02	7,823.37	7,802.49	20.88	374.739		
2,700.00	2,445.45	778.00	773.08	20.22	2.95	91.17	-7,218.19	2,116.02	7,852.89	7,830.78	22.11	355.180		
2,800.00	2,521.42	815.96	810.18	21.59	3.13	91.36	-7,226.03	2,117.73	7,883.13	7,859.63	23.50	335.438		
2,900.00	2,597.40	855.00	848.18	22.97	3.31	91.56	-7,234.85	2,119.26	7,914.72	7,889.83	24.89	317.935		
3,000.00	2,673.38	855.00	848.18	24.34	3.31	91.56	-7,234.85	2,119.26	7,946.98	7,920.87	26.11	304.360		
3,100.00	2,749.36	855.00	848.18	25.73	3.31	91.56	-7,234.85	2,119.26	7,980.37	7,953.05	27.32	292.133		
3,200.00	2,825.33	855.00	848.18	27.11	3.31	91.56	-7,234.85	2,119.26	8,014.87	7,986.35	28.51	281.081		
3,300.00	2,901.31	900.86	892.63	28.50	3.54	91.79	-7,245.98	2,121.05	8,049.99	8,020.07	29.92	269.082		
3,400.00	2,977.29	942.00	932.37	29.90	3.75	92.00	-7,256.49	2,122.84	8,086.28	8,054.99	31.29	258.439		
3,500.00	3,053.27	942.00	932.37	31.29	3.75	92.00	-7,256.49	2,122.84	8,123.27	8,090.81	32.46	250.278		
3,600.00	3,129.24	942.00	932.37	32.69	3.75	92.00	-7,256.49	2,122.84	8,161.32	8,127.71	33.61	242.807		
3,700.00	3,205.22	989.33	977.92	34.08	4.00	92.24	-7,269.09	2,125.20	8,200.03	8,165.03	35.00	234.280		
3,800.00	3,281.20	1,031.00	1,017.92	35.48	4.22	92.44	-7,280.54	2,127.62	8,239.69	8,203.34	36.34	226.713		
3,900.00	3,357.18	1,031.00	1,017.92	36.88	4.22	92.44	-7,280.54	2,127.62	8,280.08	8,242.61	37.47	220.999		
4,000.00	3,433.15	1,076.75	1,061.72	38.29	4.48	92.66	-7,293.42	2,130.60	8,321.21	8,282.39	38.82	214.348		
4,100.00	3,509.13	1,116.00	1,099.23	39.69	4.70	92.85	-7,304.64	2,133.38	8,363.07	8,322.93	40.14	208.359		
4,200.00	3,585.11	1,188.55	1,168.53	41.09	5.12	93.20	-7,325.52	2,138.41	8,405.47	8,363.84	41.63	201.902		
4,300.00	3,661.08	1,204.00	1,183.29	42.50	5.21	93.28	-7,329.95	2,139.41	8,448.38	8,405.58	42.80	197.398		
4,400.00	3,737.06	1,250.98	1,228.14	43.90	5.49	93.50	-7,343.65	2,142.44	8,491.89	8,447.75	44.14	192.407		
4,500.00	3,813.04	1,291.00	1,266.22	45.31	5.73	93.69	-7,355.64	2,145.08	8,536.24	8,490.82	45.42	187.921		
4,600.00	3,889.02	1,291.00	1,266.22	46.71	5.73	93.69	-7,355.64	2,145.08	8,581.28	8,534.81	46.47	184.667		
4,700.00	3,964.99	1,334.76	1,307.77	48.12	6.00	93.90	-7,369.05	2,148.08	8,626.99	8,579.23	47.76	180.618		
4,800.00	4,040.97	1,378.00	1,348.72	49.53	6.27	94.10	-7,382.56	2,151.20	8,673.42	8,624.37	49.05	176.835		
4,900.00	4,116.95	1,378.00	1,348.72	50.94	6.27	94.10	-7,382.56	2,151.20	8,720.51	8,670.45	50.06	174.215		
5,000.00	4,192.93	1,426.64	1,394.67	52.35	6.58	94.33	-7,398.05	2,155.01	8,768.18	8,716.82	51.36	170.719		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,268.90	1,466.00	1,431.75	53.76	6.83	94.51	-7,410.81	2,158.39	8,816.54	8,763.94	52.60	167.619		
5,200.00	4,344.88	1,466.00	1,431.75	55.16	6.83	94.51	-7,410.81	2,158.39	8,865.56	8,811.99	53.57	165.494		
5,300.00	4,420.86	1,466.00	1,431.75	56.57	6.83	94.51	-7,410.81	2,158.39	8,915.44	8,860.91	54.53	163.505		
5,400.00	4,496.84	1,510.85	1,473.83	57.98	7.13	94.71	-7,425.80	2,162.38	8,965.68	8,909.91	55.78	160.744		
5,500.00	4,572.81	1,553.00	1,513.16	59.39	7.42	94.91	-7,440.51	2,166.09	9,016.98	8,959.98	57.00	158.193		
5,600.00	4,648.79	1,553.00	1,513.16	60.81	7.42	94.91	-7,440.51	2,166.09	9,068.68	9,010.76	57.92	156.570		
5,700.00	4,724.77	1,553.00	1,513.16	62.22	7.42	94.91	-7,440.51	2,166.09	9,121.18	9,062.36	58.83	155.050		
5,800.00	4,800.74	1,553.00	1,513.16	63.63	7.42	94.91	-7,440.51	2,166.09	9,174.48	9,114.76	59.72	153.627		
5,900.00	4,876.72	1,596.85	1,553.88	65.04	7.73	95.10	-7,456.37	2,169.78	9,228.17	9,167.25	60.92	151.485		
6,000.00	4,952.70	1,640.00	1,593.77	66.45	8.03	95.30	-7,472.46	2,173.13	9,282.74	9,220.64	62.10	149.471		
6,100.00	5,028.68	1,640.00	1,593.77	67.86	8.03	95.30	-7,472.46	2,173.13	9,337.71	9,274.74	62.96	148.308		
6,200.00	5,104.65	1,640.00	1,593.77	69.27	8.03	95.30	-7,472.46	2,173.13	9,393.41	9,329.61	63.80	147.221		
6,300.00	5,180.63	1,680.71	1,631.29	70.69	8.32	95.48	-7,488.01	2,176.07	9,449.63	9,384.68	64.95	145.501		
6,400.00	5,256.61	1,728.00	1,674.74	72.10	8.67	95.70	-7,506.36	2,179.28	9,506.48	9,440.35	66.13	143.756		
6,500.00	5,332.59	1,733.89	1,680.15	73.51	8.71	95.73	-7,508.67	2,179.67	9,563.75	9,496.76	66.99	142.774		
6,600.00	5,408.56	2,454.30	2,350.82	74.92	13.79	98.88	-7,766.38	2,227.10	9,617.61	9,544.36	73.25	131.297		
6,700.00	5,484.54	2,488.75	2,383.31	76.34	14.02	99.03	-7,777.70	2,228.97	9,671.20	9,596.85	74.35	130.071		
6,800.00	5,560.52	2,674.82	2,559.23	77.75	15.25	99.82	-7,837.66	2,237.68	9,724.51	9,647.97	76.53	127.063		
6,900.00	5,636.50	2,711.51	2,593.99	79.16	15.49	99.98	-7,849.33	2,239.11	9,778.03	9,700.39	77.64	125.938		
7,000.00	5,712.47	2,742.44	2,623.22	80.57	15.70	100.11	-7,859.32	2,240.66	9,832.07	9,753.37	78.70	124.927		
7,100.00	5,788.45	2,775.00	2,653.91	81.99	15.91	100.24	-7,869.99	2,242.69	9,886.61	9,806.85	79.77	123.942		
7,200.00	5,864.43	2,863.66	2,737.38	83.40	16.52	100.60	-7,899.19	2,249.06	9,941.46	9,860.20	81.26	122.342		
7,300.00	5,940.40	2,913.18	2,784.02	84.81	16.85	100.80	-7,915.48	2,252.57	9,996.52	9,914.07	82.45	121.247		
10,700.00	7,870.00	8,183.01	7,903.21	114.41	40.27	90.19	-8,784.90	2,375.81	9,969.04	9,834.29	134.75	73.982		
10,800.00	7,870.00	8,184.03	7,904.24	114.17	40.27	90.21	-8,784.92	2,375.87	9,872.99	9,738.01	134.98	73.146		
10,900.00	7,870.00	8,185.07	7,905.27	113.95	40.27	90.23	-8,784.94	2,375.94	9,777.01	9,641.80	135.21	72.310		
11,000.00	7,870.00	8,186.12	7,906.32	113.75	40.27	90.26	-8,784.96	2,376.00	9,681.12	9,545.67	135.45	71.475		
11,100.00	7,870.00	8,187.19	7,907.39	113.55	40.28	90.28	-8,784.98	2,376.07	9,585.31	9,449.62	135.69	70.641		
11,200.00	7,870.00	8,188.27	7,908.47	113.37	40.28	90.30	-8,784.99	2,376.13	9,489.59	9,353.64	135.94	69.806		
11,300.00	7,870.00	8,189.37	7,909.57	113.20	40.28	90.32	-8,785.01	2,376.20	9,393.95	9,257.75	136.20	68.973		
11,400.00	7,870.00	8,190.49	7,910.68	113.04	40.29	90.35	-8,785.03	2,376.27	9,298.41	9,161.95	136.46	68.139		
11,500.00	7,870.00	8,191.63	7,911.82	112.89	40.29	90.37	-8,785.05	2,376.34	9,202.96	9,066.23	136.73	67.307		
11,600.00	7,870.00	8,192.78	7,912.97	112.76	40.29	90.39	-8,785.07	2,376.41	9,107.61	8,970.60	137.01	66.475		
11,700.00	7,870.00	8,193.95	7,914.14	112.64	40.30	90.42	-8,785.09	2,376.48	9,012.36	8,875.07	137.29	65.643		
11,800.00	7,870.00	8,195.14	7,915.32	112.53	40.30	90.44	-8,785.11	2,376.56	8,917.21	8,779.63	137.58	64.813		
11,900.00	7,870.00	8,196.35	7,916.53	112.44	40.30	90.47	-8,785.14	2,376.63	8,822.17	8,684.29	137.88	63.983		
12,000.00	7,870.00	8,197.58	7,917.76	112.36	40.31	90.49	-8,785.16	2,376.71	8,727.25	8,589.05	138.19	63.153		
12,100.00	7,870.00	8,198.83	7,919.00	112.29	40.31	90.52	-8,785.18	2,376.79	8,632.43	8,493.92	138.51	62.325		
12,200.00	7,870.00	8,200.09	7,920.27	112.24	40.31	90.55	-8,785.21	2,376.87	8,537.74	8,398.90	138.83	61.497		
12,300.00	7,870.00	8,201.38	7,921.55	112.20	40.32	90.57	-8,785.23	2,376.95	8,443.16	8,304.00	139.16	60.671		
12,400.00	7,870.00	8,202.69	7,922.86	112.17	40.32	90.60	-8,785.25	2,377.03	8,348.71	8,209.21	139.51	59.845		
12,500.00	7,870.00	8,204.03	7,924.19	112.16	40.32	90.63	-8,785.28	2,377.12	8,254.40	8,114.54	139.86	59.020		
12,600.00	7,870.00	8,205.38	7,925.54	112.17	40.33	90.66	-8,785.31	2,377.21	8,160.21	8,020.00	140.22	58.197		
12,700.00	7,870.00	8,206.76	7,926.92	112.19	40.33	90.68	-8,785.33	2,377.29	8,066.17	7,925.58	140.59	57.374		
12,800.00	7,870.00	8,208.16	7,928.32	112.23	40.33	90.71	-8,785.36	2,377.38	7,972.27	7,831.30	140.97	56.553		
12,900.00	7,870.00	8,209.59	7,929.74	112.28	40.34	90.74	-8,785.39	2,377.48	7,878.52	7,737.16	141.36	55.733		
13,000.00	7,870.00	8,211.04	7,931.19	112.36	40.34	90.77	-8,785.42	2,377.57	7,784.93	7,643.17	141.76	54.915		
13,100.00	7,870.00	8,212.52	7,932.66	112.45	40.35	90.80	-8,785.45	2,377.67	7,691.50	7,549.32	142.18	54.097		
13,200.00	7,870.00	8,214.02	7,934.16	112.56	40.35	90.83	-8,785.48	2,377.77	7,598.23	7,455.63	142.60	53.282		
13,300.00	7,870.00	8,215.55	7,935.69	112.68	40.35	90.87	-8,785.51	2,377.87	7,505.14	7,362.10	143.04	52.468		
13,400.00	7,870.00	8,217.11	7,937.24	112.83	40.36	90.90	-8,785.54	2,377.97	7,412.23	7,268.73	143.49	51.655		
13,500.00	7,870.00	8,218.70	7,938.83	113.00	40.36	90.93	-8,785.57	2,378.08	7,319.50	7,175.54	143.96	50.845		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
13,600.00	7,870.00	8,220.31	7,940.44	113.19	40.37	90.96	-8,785.61	2,378.19	7,226.97	7,082.53	144.44	50.036		
13,700.00	7,870.00	8,221.96	7,942.08	113.40	40.37	91.00	-8,785.64	2,378.30	7,134.63	6,989.71	144.93	49.229		
13,800.00	7,870.00	8,223.63	7,943.75	113.63	40.38	91.03	-8,785.68	2,378.41	7,042.51	6,897.08	145.43	48.424		
13,900.00	7,870.00	8,225.34	7,945.46	113.89	40.38	91.07	-8,785.71	2,378.53	6,950.61	6,804.65	145.96	47.621		
14,000.00	7,870.00	8,227.08	7,947.19	114.18	40.39	91.11	-8,785.75	2,378.65	6,858.93	6,712.43	146.49	46.821		
14,100.00	7,870.00	8,228.86	7,948.96	114.48	40.39	91.14	-8,785.79	2,378.77	6,767.48	6,620.43	147.05	46.023		
14,200.00	7,870.00	8,230.67	7,950.77	114.82	40.40	91.18	-8,785.83	2,378.89	6,676.28	6,528.66	147.62	45.227		
14,300.00	7,870.00	8,232.51	7,952.61	115.18	40.40	91.22	-8,785.87	2,379.02	6,585.34	6,437.13	148.20	44.434		
14,400.00	7,870.00	8,234.40	7,954.49	115.57	40.41	91.26	-8,785.91	2,379.15	6,494.66	6,345.85	148.81	43.644		
14,500.00	7,870.00	8,236.32	7,956.40	115.99	40.41	91.30	-8,785.96	2,379.28	6,404.25	6,254.82	149.43	42.857		
14,600.00	7,870.00	8,238.28	7,958.36	116.44	40.42	91.34	-8,786.00	2,379.42	6,314.14	6,164.06	150.08	42.072		
14,700.00	7,870.00	8,240.28	7,960.35	116.92	40.42	91.38	-8,786.05	2,379.56	6,224.33	6,073.58	150.74	41.291		
14,800.00	7,870.00	8,242.32	7,962.39	117.44	40.43	91.42	-8,786.10	2,379.71	6,134.83	5,983.40	151.43	40.514		
14,900.00	7,870.00	8,244.40	7,964.46	117.98	40.43	91.46	-8,786.15	2,379.86	6,045.66	5,893.53	152.13	39.740		
15,000.00	7,870.00	8,246.53	7,966.58	118.56	40.44	91.51	-8,786.20	2,380.01	5,956.83	5,803.97	152.86	38.969		
15,100.00	7,870.00	8,248.70	7,968.75	119.17	40.45	91.55	-8,786.25	2,380.17	5,868.36	5,714.75	153.61	38.203		
15,200.00	7,870.00	8,250.92	7,970.97	119.81	40.45	91.60	-8,786.31	2,380.33	5,780.27	5,625.88	154.39	37.440		
15,300.00	7,870.00	8,253.19	7,973.23	120.48	40.46	91.65	-8,786.36	2,380.49	5,692.57	5,537.38	155.19	36.682		
15,400.00	7,870.00	8,255.51	7,975.54	121.19	40.46	91.70	-8,786.42	2,380.66	5,605.28	5,449.27	156.01	35.929		
15,500.00	7,870.00	8,257.88	7,977.90	121.93	40.47	91.74	-8,786.48	2,380.84	5,518.42	5,361.56	156.86	35.180		
15,600.00	7,870.00	8,260.31	7,980.32	122.71	40.48	91.80	-8,786.54	2,381.02	5,432.01	5,274.27	157.74	34.436		
15,700.00	7,870.00	8,262.79	7,982.79	123.52	40.48	91.85	-8,786.61	2,381.20	5,346.07	5,187.43	158.65	33.698		
15,800.00	7,870.00	8,265.32	7,985.32	124.36	40.49	91.90	-8,786.67	2,381.39	5,260.63	5,101.05	159.58	32.965		
15,900.00	7,870.00	8,267.92	7,987.91	125.23	40.50	91.95	-8,786.74	2,381.59	5,175.71	5,015.17	160.55	32.238		
16,000.00	7,870.00	8,270.58	7,990.56	126.14	40.51	92.01	-8,786.81	2,381.79	5,091.34	4,929.80	161.54	31.517		
16,100.00	7,870.00	8,273.30	7,993.28	127.07	40.51	92.06	-8,786.89	2,382.00	5,007.54	4,844.97	162.57	30.802		
16,200.00	7,870.00	8,276.18	7,996.14	128.04	40.52	92.12	-8,786.96	2,382.22	4,924.35	4,760.71	163.63	30.094		
16,300.00	7,870.00	8,279.23	7,999.18	129.04	40.53	92.19	-8,787.05	2,382.46	4,841.78	4,677.06	164.72	29.393		
16,400.00	7,870.00	8,282.30	8,002.24	130.06	40.54	92.25	-8,787.13	2,382.70	4,759.89	4,594.04	165.85	28.700		
16,500.00	7,870.00	8,285.38	8,005.31	131.11	40.55	92.32	-8,787.22	2,382.94	4,678.70	4,511.68	167.01	28.014		
16,600.00	7,870.00	8,288.48	8,008.41	132.19	40.56	92.38	-8,787.31	2,383.18	4,598.24	4,430.03	168.21	27.336		
16,700.00	7,870.00	8,291.60	8,011.52	133.29	40.57	92.45	-8,787.39	2,383.42	4,518.57	4,349.13	169.44	26.667		
16,800.00	7,870.00	8,294.74	8,014.64	134.42	40.58	92.51	-8,787.48	2,383.67	4,439.71	4,269.01	170.71	26.008		
16,900.00	7,870.00	8,297.90	8,017.79	135.57	40.59	92.58	-8,787.57	2,383.92	4,361.73	4,189.71	172.01	25.357		
17,000.00	7,870.00	8,301.10	8,020.97	136.75	40.59	92.64	-8,787.69	2,384.21	4,284.65	4,111.31	173.34	24.718		
17,100.00	7,870.00	8,304.61	8,024.47	137.94	40.60	92.72	-8,787.80	2,384.50	4,208.53	4,033.82	174.72	24.088		
17,200.00	7,870.00	8,308.21	8,028.06	139.16	40.61	92.79	-8,787.91	2,384.80	4,133.43	3,957.31	176.13	23.469		
17,300.00	7,870.00	8,310.71	8,030.56	140.39	40.62	92.84	-8,787.93	2,384.94	4,059.41	3,881.84	177.57	22.860		
17,400.00	7,870.00	8,313.96	8,033.80	141.65	40.63	92.91	-8,788.02	2,385.20	3,986.52	3,807.47	179.05	22.265		
17,500.00	7,870.00	8,317.23	8,037.05	142.92	40.64	92.98	-8,788.12	2,385.46	3,914.82	3,734.26	180.56	21.682		
17,600.00	7,870.00	8,320.52	8,040.33	144.21	40.65	93.05	-8,788.21	2,385.72	3,844.38	3,662.28	182.10	21.111		
17,700.00	7,870.00	8,323.83	8,043.63	145.52	40.66	93.12	-8,788.31	2,385.99	3,775.27	3,591.61	183.67	20.555		
17,800.00	7,870.00	8,327.16	8,046.94	146.84	40.67	93.18	-8,788.40	2,386.26	3,707.58	3,522.31	185.26	20.013		
17,900.00	7,870.00	8,330.51	8,050.28	148.18	40.68	93.25	-8,788.50	2,386.53	3,641.36	3,454.49	186.88	19.485		
18,000.00	7,870.00	8,333.87	8,053.63	149.54	40.69	93.32	-8,788.60	2,386.81	3,576.72	3,388.21	188.51	18.973		
18,100.00	7,870.00	8,337.26	8,057.01	150.90	40.70	93.39	-8,788.69	2,387.08	3,513.73	3,323.57	190.16	18.478		
18,200.00	7,870.00	8,340.67	8,060.41	152.28	40.71	93.47	-8,788.79	2,387.36	3,452.48	3,260.66	191.82	17.999		
18,300.00	7,870.00	8,344.10	8,063.82	153.67	40.72	93.54	-8,788.89	2,387.65	3,393.07	3,199.60	193.48	17.537		
18,400.00	7,870.00	8,347.55	8,067.26	155.07	40.73	93.61	-8,788.99	2,387.93	3,335.60	3,140.47	195.13	17.094		
18,500.00	7,870.00	8,351.02	8,070.72	156.49	40.74	93.68	-8,789.10	2,388.22	3,280.17	3,083.40	196.78	16.670		
18,600.00	7,870.00	8,354.52	8,074.20	157.91	40.75	93.75	-8,789.20	2,388.51	3,226.89	3,028.49	198.40	16.265		
18,700.00	7,870.00	8,358.03	8,077.70	159.35	40.76	93.83	-8,789.30	2,388.80	3,175.85	2,975.86	199.99	15.880		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
18,800.00	7,870.00	8,361.57	8,081.22	160.79	40.77	93.90	-8,789.41	2,389.10	3,127.18	2,925.64	201.54	15.516	
18,900.00	7,870.00	8,365.12	8,084.76	162.25	40.78	93.97	-8,789.51	2,389.39	3,080.99	2,877.94	203.04	15.174	
19,000.00	7,870.00	8,368.70	8,088.33	163.71	40.79	94.05	-8,789.62	2,389.70	3,037.38	2,832.90	204.48	14.854	
19,100.00	7,870.00	8,372.31	8,091.91	165.18	40.81	94.12	-8,789.73	2,390.00	2,996.47	2,790.63	205.84	14.558	
19,200.00	7,870.00	8,375.93	8,095.52	166.66	40.82	94.20	-8,789.84	2,390.31	2,958.37	2,751.26	207.11	14.284	
19,300.00	7,870.00	8,379.58	8,099.16	168.15	40.83	94.27	-8,789.95	2,390.62	2,923.20	2,714.92	208.27	14.036	
19,400.00	7,870.00	8,383.25	8,102.81	169.65	40.84	94.35	-8,790.06	2,390.93	2,891.05	2,681.73	209.32	13.812	
19,500.00	7,870.00	8,386.94	8,106.49	171.15	40.85	94.43	-8,790.17	2,391.24	2,862.03	2,651.79	210.24	13.613	
19,600.00	7,870.00	8,390.65	8,110.19	172.66	40.86	94.51	-8,790.28	2,391.56	2,836.25	2,625.23	211.02	13.441	
19,700.00	7,870.00	8,394.39	8,113.91	174.18	40.87	94.58	-8,790.40	2,391.88	2,813.77	2,602.13	211.64	13.295	
19,800.00	7,870.00	8,398.16	8,117.66	175.70	40.88	94.66	-8,790.51	2,392.21	2,794.70	2,582.60	212.10	13.176	
19,889.26	7,870.00	8,401.54	8,121.02	177.06	40.89	94.73	-8,790.62	2,392.50	2,780.59	2,568.23	212.36	13.094 CC, ES, SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	163.73	-7,118.47	2,077.65	7,415.51					
100.00	100.00	44.28	44.28	0.13	0.08	163.73	-7,118.59	2,078.10	7,416.14	7,415.94	0.20	N/A		
200.00	200.00	74.00	73.98	0.49	0.14	163.72	-7,118.80	2,078.90	7,417.66	7,417.05	0.61	N/A		
300.00	300.00	119.88	119.83	0.85	0.29	163.71	-7,119.38	2,080.62	7,419.99	7,418.86	1.13	6,558.279		
400.00	399.98	166.00	165.89	1.21	0.45	95.49	-7,120.33	2,082.67	7,423.33	7,421.67	1.65	4,490.092		
500.00	499.84	222.66	222.45	1.56	0.66	95.41	-7,121.74	2,085.70	7,427.66	7,425.45	2.22	3,348.423		
600.00	599.45	308.89	308.47	1.93	0.99	95.33	-7,123.83	2,091.49	7,432.70	7,429.80	2.91	2,558.390		
700.00	698.70	349.00	348.43	2.32	1.14	95.23	-7,124.65	2,094.72	7,438.34	7,434.90	3.44	2,162.867		
800.00	797.47	410.95	410.12	2.72	1.38	95.13	-7,126.18	2,100.27	7,444.85	7,440.77	4.08	1,824.054		
900.00	895.62	440.00	439.02	3.16	1.49	95.00	-7,127.13	2,103.07	7,452.62	7,447.99	4.63	1,610.828		
1,000.00	993.06	477.33	476.11	3.63	1.65	94.86	-7,128.59	2,107.02	7,461.57	7,456.33	5.24	1,423.565		
1,100.00	1,089.64	533.00	531.28	4.14	1.88	94.72	-7,131.29	2,113.95	7,471.90	7,465.93	5.97	1,252.141		
1,200.00	1,185.27	546.18	544.31	4.70	1.93	94.52	-7,131.99	2,115.77	7,483.14	7,476.57	6.57	1,138.790		
1,300.00	1,279.82	625.00	622.14	5.31	2.27	94.39	-7,135.95	2,127.55	7,495.22	7,487.73	7.50	999.967		
1,400.00	1,373.17	681.09	677.36	5.97	2.53	94.23	-7,138.68	2,137.02	7,508.03	7,499.64	8.39	894.911		
1,500.00	1,465.21	738.41	733.59	6.69	2.80	94.05	-7,141.61	2,147.75	7,521.78	7,512.43	9.35	804.349		
1,600.00	1,555.84	805.00	798.57	7.47	3.12	93.89	-7,144.67	2,161.94	7,536.14	7,525.71	10.43	722.835		
1,700.00	1,644.94	843.50	835.98	8.31	3.33	93.65	-7,146.45	2,170.90	7,551.40	7,539.96	11.44	660.015		
1,800.00	1,732.39	893.00	883.90	9.23	3.59	93.43	-7,149.20	2,182.96	7,567.87	7,555.29	12.58	601.782		
1,900.00	1,818.11	912.70	902.92	10.21	3.70	93.12	-7,150.40	2,187.96	7,585.28	7,571.65	13.63	556.549		
2,000.00	1,901.97	963.03	951.32	11.26	3.98	92.88	-7,153.48	2,201.43	7,603.65	7,588.73	14.91	509.825		
2,100.00	1,983.88	1,003.27	989.80	12.38	4.22	92.59	-7,155.98	2,212.93	7,622.88	7,606.66	16.22	469.985		
2,200.00	2,063.74	1,031.00	1,016.18	13.57	4.38	92.25	-7,157.78	2,221.26	7,643.11	7,625.59	17.52	436.179		
2,300.00	2,141.45	1,076.40	1,059.22	14.84	4.67	91.95	-7,160.94	2,235.39	7,664.27	7,645.26	19.01	403.185		
2,327.78	2,162.65	1,095.00	1,076.80	15.21	4.79	91.89	-7,162.31	2,241.28	7,670.33	7,650.86	19.47	393.939		
2,400.00	2,217.51	1,153.32	1,131.98	16.17	5.17	92.07	-7,166.70	2,259.65	7,686.22	7,665.47	20.75	370.397		
2,500.00	2,293.49	1,183.00	1,160.11	17.51	5.36	92.16	-7,168.93	2,268.85	7,708.55	7,686.35	22.21	347.119		
2,600.00	2,369.47	1,238.10	1,212.18	18.86	5.73	92.33	-7,173.31	2,286.31	7,731.52	7,707.68	23.84	324.275		
2,700.00	2,445.45	1,270.00	1,242.17	20.22	5.94	92.43	-7,176.08	2,296.85	7,755.44	7,730.11	25.33	306.224		
2,800.00	2,521.42	1,537.91	1,493.15	21.59	7.83	93.20	-7,196.55	2,388.25	7,778.95	7,750.44	28.51	272.806		
2,900.00	2,597.40	1,578.09	1,530.70	22.97	8.13	93.31	-7,199.22	2,402.30	7,801.82	7,771.72	30.10	259.227		
3,000.00	2,673.38	1,629.49	1,578.66	24.34	8.50	93.45	-7,202.89	2,420.45	7,825.37	7,793.61	31.76	246.374		
3,100.00	2,749.36	1,737.06	1,678.76	25.73	9.31	93.74	-7,210.41	2,459.10	7,849.11	7,815.24	33.87	231.756		
3,200.00	2,825.33	1,820.02	1,755.89	27.11	9.94	93.97	-7,216.20	2,489.09	7,873.03	7,837.24	35.79	219.953		
3,300.00	2,901.31	1,910.37	1,839.84	28.50	10.62	94.20	-7,222.48	2,521.88	7,897.11	7,859.33	37.78	209.001		
3,400.00	2,977.29	1,968.00	1,893.34	29.90	11.06	94.35	-7,226.49	2,542.94	7,921.46	7,881.94	39.52	200.445		
3,500.00	3,053.27	2,030.32	1,951.13	31.29	11.54	94.52	-7,231.06	2,565.80	7,946.29	7,905.00	41.29	192.437		
3,600.00	3,129.24	2,098.74	2,014.55	32.69	12.07	94.69	-7,236.47	2,590.92	7,971.73	7,928.61	43.12	184.894		
3,700.00	3,205.22	2,186.54	2,096.03	34.08	12.75	94.92	-7,243.52	2,622.85	7,997.37	7,952.28	45.09	177.357		
3,800.00	3,281.20	2,250.06	2,155.13	35.48	13.24	95.09	-7,248.77	2,645.52	8,023.28	7,976.42	46.86	171.200		
3,900.00	3,357.18	2,291.54	2,193.72	36.88	13.56	95.20	-7,252.44	2,660.30	8,049.82	8,001.37	48.45	166.142		
4,000.00	3,433.15	2,422.69	2,315.54	38.29	14.57	95.54	-7,264.26	2,707.42	8,076.78	8,026.00	50.78	159.042		
4,100.00	3,509.13	2,492.00	2,379.84	39.69	15.11	95.72	-7,270.16	2,732.61	8,103.46	8,050.85	52.61	154.036		
4,200.00	3,585.11	2,535.42	2,420.14	41.09	15.44	95.83	-7,274.06	2,748.29	8,130.67	8,076.47	54.20	150.002		
4,300.00	3,661.08	2,579.00	2,460.68	42.50	15.78	95.95	-7,278.39	2,763.70	8,158.66	8,102.87	55.79	146.226		
4,400.00	3,737.06	2,697.86	2,571.28	43.90	16.69	96.26	-7,290.14	2,805.59	8,186.79	8,128.77	58.02	141.110		
4,500.00	3,813.04	2,765.05	2,633.70	45.31	17.21	96.43	-7,296.77	2,829.56	8,215.09	8,155.29	59.81	137.362		
4,600.00	3,889.02	2,878.46	2,738.73	46.71	18.11	96.71	-7,307.65	2,870.94	8,243.41	8,181.41	62.01	132.939		
4,700.00	3,964.99	2,976.29	2,829.23	48.12	18.88	96.95	-7,316.95	2,906.90	8,271.84	8,207.76	64.08	129.093		
4,800.00	4,040.97	3,112.56	2,955.88	49.53	19.94	97.30	-7,329.58	2,955.58	8,300.03	8,233.56	66.47	124.867		
4,900.00	4,116.95	3,186.07	3,023.84	50.94	20.52	97.47	-7,336.12	2,982.85	8,328.20	8,259.87	68.33	121.878		
5,000.00	4,192.93	3,290.89	3,120.87	52.35	21.36	97.72	-7,345.47	3,021.35	8,356.48	8,286.01	70.47	118.583		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,268.90	3,357.78	3,182.81	53.76	21.88	97.88	-7,351.51	3,045.86	8,384.97	8,312.70	72.26	116.035		
5,200.00	4,344.88	3,404.84	3,226.27	55.16	22.26	98.00	-7,355.90	3,063.37	8,413.92	8,340.04	73.87	113.895		
5,300.00	4,420.86	3,452.00	3,269.86	56.57	22.64	98.11	-7,360.58	3,080.77	8,443.48	8,368.00	75.48	111.862		
5,400.00	4,496.84	3,496.86	3,311.35	57.98	22.99	98.21	-7,365.29	3,097.16	8,473.63	8,396.57	77.05	109.969		
5,500.00	4,572.81	3,732.79	3,529.32	59.39	24.89	98.77	-7,388.76	3,184.32	8,503.65	8,423.24	80.41	105.749		
5,600.00	4,648.79	3,780.72	3,573.47	60.81	25.28	98.87	-7,393.13	3,202.44	8,532.94	8,450.90	82.03	104.020		
5,700.00	4,724.77	3,802.00	3,593.04	62.22	25.45	98.92	-7,395.13	3,210.56	8,562.86	8,479.47	83.39	102.687		
5,800.00	4,800.74	3,842.65	3,630.42	63.63	25.79	99.01	-7,399.25	3,226.00	8,593.46	8,508.54	84.92	101.196		
5,900.00	4,876.72	3,889.00	3,673.07	65.04	26.17	99.12	-7,404.56	3,243.35	8,624.97	8,538.47	86.50	99.714		
6,000.00	4,952.70	4,835.12	4,573.08	66.45	32.36	101.68	-7,469.99	3,520.74	8,650.10	8,555.09	95.00	91.051		
6,100.00	5,028.68	4,889.41	4,626.31	67.86	32.62	101.86	-7,471.77	3,531.27	8,673.38	8,576.85	96.53	89.852		
6,200.00	5,104.65	5,161.94	4,894.87	69.27	33.79	102.78	-7,478.95	3,576.77	8,696.31	8,597.19	99.12	87.733		
6,300.00	5,180.63	5,281.20	5,013.11	70.69	34.23	103.21	-7,480.92	3,592.22	8,718.40	8,617.53	100.87	86.432		
6,400.00	5,256.61	5,336.66	5,068.25	72.10	34.42	103.41	-7,481.83	3,598.08	8,740.63	8,638.32	102.31	85.429		
6,500.00	5,332.59	5,386.62	5,117.97	73.51	34.58	103.60	-7,482.85	3,602.77	8,763.48	8,659.75	103.72	84.490		
6,600.00	5,408.56	5,432.30	5,163.49	74.92	34.72	103.77	-7,483.99	3,606.49	8,786.97	8,681.87	105.09	83.611		
6,700.00	5,484.54	5,597.60	5,328.54	76.34	35.14	104.43	-7,488.09	3,613.99	8,810.78	8,703.98	106.80	82.498		
6,800.00	5,560.52	5,733.62	5,464.53	77.75	35.44	105.00	-7,490.33	3,615.95	8,834.15	8,725.80	108.35	81.535		
6,900.00	5,636.50	5,819.63	5,550.53	79.16	35.61	105.35	-7,491.45	3,616.53	8,857.65	8,747.91	109.74	80.712		
7,000.00	5,712.47	5,915.29	5,646.19	80.57	35.80	105.75	-7,492.54	3,617.08	8,881.44	8,770.29	111.16	79.901		
7,100.00	5,788.45	6,047.21	5,778.10	81.99	36.07	106.29	-7,493.46	3,617.59	8,905.30	8,792.65	112.64	79.057		
7,200.00	5,864.43	6,132.02	5,862.91	83.40	36.24	106.64	-7,493.71	3,617.70	8,929.25	8,815.25	114.01	78.322		
7,300.00	5,940.40	6,206.07	5,936.96	84.81	36.38	106.95	-7,493.93	3,617.51	8,953.62	8,838.29	115.33	77.632		
7,400.00	6,016.38	6,355.43	6,086.31	86.23	36.66	107.56	-7,493.94	3,616.74	8,978.27	8,861.46	116.82	76.859		
7,500.00	6,092.36	6,488.85	6,219.73	87.64	36.92	108.11	-7,492.71	3,616.34	9,002.48	8,884.22	118.26	76.127		
7,600.00	6,168.34	6,582.24	6,313.12	89.05	37.11	108.49	-7,491.54	3,616.10	9,026.90	8,907.29	119.61	75.472		
7,700.00	6,244.31	6,687.08	6,417.94	90.47	37.32	108.91	-7,489.97	3,615.93	9,051.52	8,930.55	120.98	74.820		
7,800.00	6,320.29	6,797.15	6,528.00	91.88	37.55	109.35	-7,487.96	3,616.05	9,076.29	8,953.93	122.35	74.180		
7,900.00	6,396.27	6,917.33	6,648.14	93.30	37.81	109.83	-7,485.25	3,616.35	9,101.10	8,977.35	123.75	73.544		
8,000.00	6,472.25	7,001.54	6,732.32	94.71	37.99	110.16	-7,483.09	3,616.70	9,126.05	9,000.99	125.06	72.973		
8,100.00	6,548.22	7,075.85	6,806.60	96.12	38.16	110.45	-7,481.21	3,617.33	9,151.40	9,025.05	126.34	72.433		
8,200.00	6,624.20	7,152.68	6,883.40	97.54	38.34	110.75	-7,479.30	3,618.27	9,177.13	9,049.50	127.63	71.906		
8,300.00	6,700.18	7,232.59	6,963.28	98.95	38.52	111.06	-7,477.30	3,619.40	9,203.21	9,074.30	128.91	71.391		
8,400.00	6,776.16	7,312.67	7,043.33	100.37	38.71	111.37	-7,475.29	3,620.62	9,229.63	9,099.44	130.19	70.892		
8,500.00	6,852.13	7,360.19	7,090.83	101.78	38.83	111.55	-7,474.21	3,621.45	9,256.56	9,125.17	131.39	70.454		
8,600.00	6,928.11	7,413.98	7,144.60	103.20	38.96	111.75	-7,473.11	3,622.50	9,284.02	9,151.44	132.58	70.024		
8,700.00	7,004.09	7,468.00	7,198.60	104.61	39.10	111.96	-7,472.15	3,623.67	9,312.04	9,178.27	133.77	69.612		
8,800.00	7,080.06	7,523.27	7,253.85	106.02	39.24	112.16	-7,471.33	3,624.99	9,340.58	9,205.62	134.96	69.209		
8,900.00	7,156.04	7,578.81	7,309.36	107.44	39.39	112.37	-7,470.65	3,626.45	9,369.64	9,233.50	136.14	68.823		
9,000.00	7,232.02	7,643.00	7,373.52	108.85	39.56	112.61	-7,470.04	3,628.31	9,399.23	9,261.89	137.34	68.437		
9,104.68	7,311.55	7,691.88	7,422.38	110.33	39.69	112.79	-7,469.71	3,629.79	9,430.73	9,292.20	138.53	68.076		
9,150.00	7,346.29	7,716.86	7,447.34	110.97	39.76	107.52	-7,469.58	3,630.55	9,442.83	9,303.77	139.06	67.902		
9,200.00	7,385.15	7,744.76	7,475.24	111.65	39.83	101.42	-7,469.47	3,631.39	9,452.29	9,312.62	139.67	67.677		
9,250.00	7,424.29	7,772.85	7,503.30	112.31	39.91	95.19	-7,469.39	3,632.23	9,457.59	9,317.31	140.28	67.419		
9,300.00	7,463.40	7,800.90	7,531.34	112.93	39.98	89.02	-7,469.35	3,633.06	9,458.70	9,317.81	140.89	67.134		
9,350.00	7,502.19	7,838.00	7,568.43	113.51	40.08	83.14	-7,469.33	3,634.15	9,455.62	9,314.09	141.53	66.809		
9,400.00	7,540.36	7,886.91	7,617.32	114.04	40.22	77.71	-7,469.27	3,635.51	9,448.29	9,306.10	142.20	66.445		
9,450.00	7,577.62	7,934.46	7,664.85	114.53	40.34	72.82	-7,469.14	3,636.73	9,436.77	9,293.93	142.84	66.065		
9,500.00	7,613.70	7,980.27	7,710.65	114.95	40.47	68.52	-7,468.96	3,637.81	9,421.13	9,277.68	143.46	65.673		
9,550.00	7,648.30	8,192.44	7,922.72	115.32	41.04	65.58	-7,466.18	3,643.49	9,401.28	9,256.71	144.57	65.031		
9,600.00	7,681.18	9,600.00	7,857.51	115.63	44.84	62.06	-7,467.21	3,641.64	9,377.30	9,228.53	148.77	63.031		
9,650.00	7,712.08	8,210.28	7,940.55	115.88	41.09	59.85	-7,465.92	3,644.12	9,349.83	9,204.41	145.43	64.293		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,700.00	7,740.76	8,228.89	7,959.14	116.08	41.15	57.94	-7,465.62	3,644.79	9,318.94	9,173.11	145.83	63.902		
9,750.00	7,767.01	8,245.96	7,976.21	116.23	41.20	56.62	-7,465.37	3,645.43	9,284.89	9,138.69	146.20	63.509		
9,800.00	7,790.63	8,261.37	7,991.60	116.33	41.24	55.91	-7,465.16	3,646.04	9,247.91	9,101.39	146.52	63.116		
9,850.00	7,811.44	8,274.96	8,005.18	116.38	41.28	55.88	-7,464.99	3,646.60	9,208.27	9,061.46	146.81	62.724		
9,900.00	7,829.28	8,286.62	8,016.82	116.38	41.31	56.66	-7,464.86	3,647.09	9,166.26	9,019.21	147.05	62.335		
9,950.00	7,844.01	8,296.24	8,026.43	116.35	41.34	58.49	-7,464.75	3,647.51	9,122.16	8,974.91	147.25	61.949		
10,000.00	7,855.52	8,303.72	8,033.91	116.28	41.36	61.86	-7,464.68	3,647.84	9,076.31	8,928.89	147.42	61.569		
10,050.00	7,863.72	8,308.99	8,039.17	116.18	41.38	67.74	-7,464.63	3,648.07	9,029.03	8,881.48	147.55	61.194		
10,100.00	7,868.56	8,311.98	8,042.16	116.06	41.39	78.26	-7,464.60	3,648.21	8,980.67	8,833.03	147.64	60.826		
10,145.94	7,870.00	8,312.69	8,042.87	115.92	41.39	95.70	-7,464.60	3,648.24	8,935.59	8,787.89	147.71	60.495		
10,200.00	7,870.00	8,312.36	8,042.54	115.76	41.39	95.69	-7,464.60	3,648.23	8,882.30	8,734.54	147.77	60.109		
10,300.00	7,870.00	8,311.74	8,041.92	115.46	41.38	95.66	-7,464.60	3,648.20	8,783.76	8,635.87	147.88	59.396		
10,400.00	7,870.00	8,311.12	8,041.30	115.18	41.38	95.64	-7,464.61	3,648.17	8,685.24	8,537.24	148.00	58.683		
10,500.00	7,870.00	8,310.50	8,040.68	114.91	41.38	95.62	-7,464.62	3,648.14	8,586.76	8,438.63	148.12	57.970		
10,600.00	7,870.00	8,309.86	8,040.05	114.65	41.38	95.59	-7,464.62	3,648.11	8,488.31	8,340.06	148.25	57.257		
10,700.00	7,870.00	8,309.22	8,039.41	114.41	41.38	95.57	-7,464.63	3,648.08	8,389.90	8,241.52	148.38	56.545		
10,800.00	7,870.00	8,308.58	8,038.76	114.17	41.38	95.54	-7,464.63	3,648.05	8,291.53	8,143.02	148.51	55.833		
10,900.00	7,870.00	8,307.93	8,038.11	113.95	41.37	95.52	-7,464.64	3,648.03	8,193.20	8,044.55	148.64	55.120		
11,000.00	7,870.00	8,307.27	8,037.45	113.75	41.37	95.49	-7,464.65	3,648.00	8,094.90	7,946.12	148.78	54.408		
11,100.00	7,870.00	8,306.60	8,036.79	113.55	41.37	95.47	-7,464.65	3,647.97	7,996.65	7,847.73	148.92	53.697		
11,200.00	7,870.00	8,305.93	8,036.11	113.37	41.37	95.44	-7,464.66	3,647.94	7,898.45	7,749.38	149.07	52.985		
11,300.00	7,870.00	8,305.25	8,035.43	113.20	41.37	95.42	-7,464.67	3,647.90	7,800.29	7,651.07	149.22	52.274		
11,400.00	7,870.00	8,304.56	8,034.75	113.04	41.36	95.39	-7,464.67	3,647.87	7,702.17	7,552.80	149.37	51.563		
11,500.00	7,870.00	8,303.86	8,034.05	112.89	41.36	95.36	-7,464.68	3,647.84	7,604.11	7,454.58	149.53	50.853		
11,600.00	7,870.00	8,303.16	8,033.35	112.76	41.36	95.34	-7,464.69	3,647.81	7,506.10	7,356.40	149.70	50.142		
11,700.00	7,870.00	8,302.45	8,032.64	112.64	41.36	95.31	-7,464.69	3,647.78	7,408.14	7,258.27	149.86	49.432		
11,800.00	7,870.00	8,301.73	8,031.92	112.53	41.36	95.28	-7,464.70	3,647.75	7,310.23	7,160.20	150.04	48.723		
11,900.00	7,870.00	8,301.01	8,031.20	112.44	41.35	95.25	-7,464.71	3,647.72	7,212.38	7,062.17	150.21	48.014		
12,000.00	7,870.00	8,300.27	8,030.47	112.36	41.35	95.23	-7,464.71	3,647.68	7,114.60	6,964.20	150.40	47.305		
12,100.00	7,870.00	8,299.53	8,029.72	112.29	41.35	95.20	-7,464.72	3,647.65	7,016.87	6,866.28	150.59	46.597		
12,200.00	7,870.00	8,298.78	8,028.98	112.24	41.35	95.17	-7,464.73	3,647.62	6,919.21	6,768.43	150.78	45.889		
12,300.00	7,870.00	8,298.02	8,028.22	112.20	41.35	95.14	-7,464.74	3,647.58	6,821.62	6,670.64	150.98	45.182		
12,400.00	7,870.00	8,297.26	8,027.45	112.17	41.34	95.11	-7,464.74	3,647.55	6,724.10	6,572.91	151.19	44.475		
12,500.00	7,870.00	8,296.48	8,026.68	112.16	41.34	95.08	-7,464.75	3,647.52	6,626.65	6,475.25	151.40	43.769		
12,600.00	7,870.00	8,295.70	8,025.89	112.17	41.34	95.05	-7,464.76	3,647.48	6,529.28	6,377.66	151.62	43.063		
12,700.00	7,870.00	8,294.90	8,025.10	112.19	41.34	95.02	-7,464.77	3,647.45	6,431.98	6,280.14	151.85	42.358		
12,800.00	7,870.00	8,294.10	8,024.30	112.23	41.33	94.99	-7,464.78	3,647.41	6,334.78	6,182.70	152.08	41.654		
12,900.00	7,870.00	8,293.29	8,023.49	112.28	41.33	94.96	-7,464.79	3,647.38	6,237.66	6,085.34	152.32	40.951		
13,000.00	7,870.00	8,292.47	8,022.67	112.36	41.33	94.93	-7,464.79	3,647.34	6,140.63	5,988.06	152.57	40.248		
13,100.00	7,870.00	8,291.64	8,021.84	112.45	41.33	94.90	-7,464.80	3,647.31	6,043.70	5,890.88	152.83	39.546		
13,200.00	7,870.00	8,290.79	8,021.00	112.56	41.33	94.86	-7,464.81	3,647.27	5,946.88	5,793.78	153.09	38.845		
13,300.00	7,870.00	8,289.94	8,020.15	112.68	41.32	94.83	-7,464.82	3,647.23	5,850.15	5,696.79	153.37	38.145		
13,400.00	7,870.00	8,289.08	8,019.29	112.83	41.32	94.80	-7,464.83	3,647.20	5,753.54	5,599.89	153.65	37.446		
13,500.00	7,870.00	8,288.21	8,018.42	113.00	41.32	94.76	-7,464.84	3,647.16	5,657.05	5,503.11	153.94	36.747		
13,600.00	7,870.00	8,287.33	8,017.54	113.19	41.32	94.73	-7,464.85	3,647.12	5,560.68	5,406.44	154.25	36.050		
13,700.00	7,870.00	8,286.44	8,016.65	113.40	41.31	94.70	-7,464.86	3,647.08	5,464.45	5,309.88	154.56	35.354		
13,800.00	7,870.00	8,285.54	8,015.74	113.63	41.31	94.66	-7,464.87	3,647.04	5,368.35	5,213.46	154.89	34.659		
13,900.00	7,870.00	8,284.62	8,014.83	113.89	41.31	94.63	-7,464.88	3,647.00	5,272.39	5,117.17	155.23	33.966		
14,000.00	7,870.00	8,283.70	8,013.90	114.18	41.30	94.59	-7,464.89	3,646.96	5,176.59	5,021.01	155.58	33.274		
14,100.00	7,870.00	8,282.76	8,012.97	114.48	41.30	94.56	-7,464.90	3,646.92	5,080.95	4,925.01	155.94	32.583		
14,200.00	7,870.00	8,281.81	8,012.02	114.82	41.30	94.52	-7,464.91	3,646.88	4,985.48	4,829.16	156.31	31.894		
14,300.00	7,870.00	8,280.85	8,011.06	115.18	41.30	94.48	-7,464.92	3,646.84	4,890.19	4,733.48	156.70	31.207		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,400.00	7,870.00	8,279.88	8,010.09	115.57	41.29	94.45	-7,464.93	3,646.80	4,795.09	4,637.98	157.11	30.521		
14,500.00	7,870.00	8,278.89	8,009.10	115.99	41.29	94.41	-7,464.94	3,646.76	4,700.20	4,542.67	157.53	29.837		
14,600.00	7,870.00	8,277.89	8,008.11	116.44	41.29	94.37	-7,464.96	3,646.72	4,605.52	4,447.55	157.97	29.155		
14,700.00	7,870.00	8,276.88	8,007.10	116.92	41.29	94.33	-7,464.97	3,646.68	4,511.07	4,352.65	158.42	28.475		
14,800.00	7,870.00	8,275.86	8,006.08	117.44	41.28	94.29	-7,464.98	3,646.63	4,416.86	4,257.97	158.89	27.798		
14,900.00	7,870.00	8,274.82	8,005.04	117.98	41.28	94.25	-7,464.99	3,646.59	4,322.92	4,163.53	159.38	27.123		
15,000.00	7,870.00	8,273.77	8,003.99	118.56	41.28	94.21	-7,465.01	3,646.55	4,229.25	4,069.36	159.89	26.450		
15,100.00	7,870.00	8,272.70	8,002.92	119.17	41.27	94.17	-7,465.02	3,646.50	4,135.88	3,975.45	160.43	25.780		
15,200.00	7,870.00	8,271.63	8,001.85	119.81	41.27	94.13	-7,465.03	3,646.46	4,042.82	3,881.84	160.98	25.114		
15,300.00	7,870.00	8,270.53	8,000.75	120.48	41.27	94.09	-7,465.04	3,646.41	3,950.11	3,788.55	161.56	24.450		
15,400.00	7,870.00	8,269.42	7,999.65	121.19	41.26	94.05	-7,465.06	3,646.37	3,857.76	3,695.60	162.16	23.790		
15,500.00	7,870.00	8,268.30	7,998.52	121.93	41.26	94.00	-7,465.07	3,646.32	3,765.80	3,603.01	162.79	23.133		
15,600.00	7,870.00	8,267.16	7,997.39	122.71	41.26	93.96	-7,465.09	3,646.28	3,674.25	3,510.81	163.44	22.480		
15,700.00	7,870.00	8,266.01	7,996.23	123.52	41.25	93.92	-7,465.10	3,646.23	3,583.16	3,419.04	164.12	21.832		
15,800.00	7,870.00	8,264.84	7,995.06	124.36	41.25	93.87	-7,465.12	3,646.18	3,492.56	3,327.72	164.84	21.188		
15,900.00	7,870.00	8,263.65	7,993.88	125.23	41.25	93.83	-7,465.13	3,646.13	3,402.48	3,236.90	165.58	20.549		
16,000.00	7,870.00	8,262.45	7,992.67	126.14	41.24	93.78	-7,465.15	3,646.08	3,312.97	3,146.62	166.35	19.916		
16,100.00	7,870.00	8,261.22	7,991.45	127.07	41.24	93.73	-7,465.16	3,646.03	3,224.08	3,056.92	167.16	19.288		
16,200.00	7,870.00	8,259.99	7,990.22	128.04	41.24	93.69	-7,465.18	3,645.98	3,135.86	2,967.86	168.00	18.666		
16,300.00	7,870.00	8,258.73	7,988.96	129.04	41.23	93.64	-7,465.19	3,645.93	3,048.36	2,879.49	168.87	18.051		
16,400.00	7,870.00	8,257.46	7,987.69	130.06	41.23	93.59	-7,465.21	3,645.88	2,961.66	2,791.87	169.78	17.444		
16,500.00	7,870.00	8,256.16	7,986.40	131.11	41.23	93.54	-7,465.23	3,645.83	2,875.81	2,705.08	170.73	16.844		
16,600.00	7,870.00	8,254.85	7,985.09	132.19	41.22	93.49	-7,465.25	3,645.78	2,790.91	2,619.20	171.71	16.253		
16,700.00	7,870.00	8,253.52	7,983.76	133.29	41.22	93.44	-7,465.26	3,645.73	2,707.04	2,534.31	172.73	15.672		
16,800.00	7,870.00	8,252.17	7,982.41	134.42	41.21	93.39	-7,465.28	3,645.67	2,624.30	2,450.52	173.78	15.101		
16,900.00	7,870.00	8,250.80	7,981.04	135.57	41.21	93.33	-7,465.30	3,645.62	2,542.80	2,367.93	174.87	14.541		
17,000.00	7,870.00	8,249.40	7,979.64	136.75	41.21	93.28	-7,465.32	3,645.57	2,462.66	2,286.68	175.98	13.994		
17,100.00	7,870.00	8,247.99	7,978.23	137.94	41.20	93.23	-7,465.34	3,645.51	2,384.03	2,206.91	177.12	13.460		
17,200.00	7,870.00	8,246.55	7,976.80	139.16	41.20	93.17	-7,465.36	3,645.46	2,307.04	2,128.77	178.28	12.941		
17,300.00	7,870.00	8,245.10	7,975.34	140.39	41.19	93.12	-7,465.38	3,645.40	2,231.89	2,052.44	179.44	12.438		
17,400.00	7,870.00	8,243.62	7,973.86	141.65	41.19	93.06	-7,465.40	3,645.34	2,158.74	1,978.14	180.61	11.953		
17,500.00	7,870.00	8,242.11	7,972.36	142.92	41.19	93.00	-7,465.42	3,645.28	2,087.83	1,906.07	181.76	11.487		
17,600.00	7,870.00	8,240.58	7,970.83	144.21	41.18	92.94	-7,465.44	3,645.23	2,019.38	1,836.50	182.87	11.042		
17,700.00	7,870.00	8,239.03	7,969.28	145.52	41.18	92.88	-7,465.47	3,645.17	1,953.64	1,769.71	183.94	10.621		
17,800.00	7,870.00	8,237.46	7,967.71	146.84	41.17	92.82	-7,465.49	3,645.11	1,890.92	1,706.00	184.92	10.226		
17,900.00	7,870.00	8,235.85	7,966.10	148.18	41.17	92.76	-7,465.51	3,645.05	1,831.50	1,645.71	185.79	9.858		
18,000.00	7,870.00	8,234.22	7,964.48	149.54	41.16	92.70	-7,465.54	3,644.98	1,775.74	1,589.22	186.51	9.521		
18,100.00	7,870.00	8,232.57	7,962.82	150.90	41.16	92.64	-7,465.56	3,644.92	1,723.97	1,536.92	187.05	9.217		
18,200.00	7,870.00	8,230.88	7,961.14	152.28	41.15	92.57	-7,465.59	3,644.86	1,676.57	1,489.21	187.36	8.948		
18,300.00	7,870.00	8,229.17	7,959.43	153.67	41.15	92.51	-7,465.61	3,644.80	1,633.92	1,446.52	187.40	8.719		
18,400.00	7,870.00	8,227.43	7,957.69	155.07	41.14	92.44	-7,465.64	3,644.73	1,596.41	1,409.28	187.12	8.531		
18,500.00	7,870.00	8,225.66	7,955.92	156.49	41.14	92.37	-7,465.67	3,644.67	1,564.39	1,377.90	186.49	8.388		
18,600.00	7,870.00	8,223.86	7,954.12	157.91	41.13	92.30	-7,465.70	3,644.60	1,538.22	1,352.73	185.49	8.293		
18,700.00	7,870.00	8,222.03	7,952.29	159.35	41.13	92.23	-7,465.73	3,644.54	1,518.19	1,334.10	184.09	8.247 SF		
18,800.00	7,870.00	8,220.16	7,950.42	160.79	41.12	92.16	-7,465.76	3,644.47	1,504.56	1,322.25	182.31	8.253		
18,900.00	7,870.00	8,218.26	7,948.53	162.25	41.12	92.09	-7,465.79	3,644.40	1,497.49	1,317.34	180.15	8.312 ES		
18,956.12	7,870.00	8,217.18	7,947.45	163.07	41.11	92.05	-7,465.80	3,644.36	1,496.44	1,317.65	178.79	8.370 CC		
19,000.00	7,870.00	8,216.33	7,946.60	163.71	41.11	92.01	-7,465.82	3,644.33	1,497.08	1,319.42	177.66	8.426		
19,100.00	7,870.00	8,214.36	7,944.63	165.18	41.11	91.94	-7,465.85	3,644.26	1,503.34	1,328.44	174.90	8.596		
19,200.00	7,870.00	8,212.36	7,942.63	166.66	41.10	91.86	-7,465.88	3,644.19	1,516.18	1,344.26	171.91	8.819		
19,300.00	7,870.00	8,210.32	7,940.59	168.15	41.09	91.78	-7,465.92	3,644.12	1,535.43	1,366.65	168.78	9.097		
19,400.00	7,870.00	8,208.24	7,938.52	169.65	41.09	91.70	-7,465.95	3,644.05	1,560.86	1,395.28	165.58	9.427		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,500.00	7,870.00	8,206.13	7,936.40	171.15	41.08	91.62	-7,465.99	3,643.97	1,592.18	1,429.81	162.37	9.806	
19,600.00	7,870.00	8,203.97	7,934.25	172.66	41.08	91.54	-7,466.03	3,643.90	1,629.04	1,469.83	159.21	10.232	
19,700.00	7,870.00	8,201.78	7,932.05	174.18	41.07	91.46	-7,466.06	3,643.82	1,671.08	1,514.93	156.15	10.702	
19,800.00	7,870.00	8,199.54	7,929.82	175.70	41.06	91.37	-7,466.10	3,643.75	1,717.91	1,564.68	153.23	11.211	
19,889.26	7,870.00	8,197.50	7,927.78	177.06	41.06	91.29	-7,466.14	3,643.68	1,763.45	1,612.69	150.76	11.697	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	162.64	-5,369.55	1,678.14	5,625.68					
100.00	100.00	51.42	51.42	0.13	0.08	162.65	-5,369.80	1,678.01	5,626.03	5,625.82	0.22	N/A		
200.00	200.00	160.56	160.54	0.49	0.39	162.66	-5,371.26	1,676.99	5,627.07	5,626.18	0.88	6,367.429		
300.00	300.00	253.91	253.88	0.85	0.73	162.68	-5,372.16	1,675.78	5,627.61	5,626.03	1.58	3,569.291		
400.00	399.98	348.08	348.03	1.21	1.07	94.54	-5,373.33	1,674.55	5,628.54	5,626.27	2.27	2,479.962		
500.00	499.84	410.29	410.23	1.56	1.29	94.56	-5,374.36	1,673.45	5,630.05	5,627.20	2.85	1,974.679		
600.00	599.45	456.00	455.90	1.93	1.46	94.56	-5,375.64	1,672.14	5,632.66	5,629.27	3.38	1,664.055		
700.00	698.70	509.98	509.80	2.32	1.66	94.58	-5,377.80	1,670.05	5,636.43	5,632.46	3.97	1,420.500		
800.00	797.47	549.00	548.72	2.72	1.80	94.56	-5,379.85	1,668.21	5,641.46	5,636.94	4.52	1,248.660		
900.00	895.62	596.94	596.49	3.16	1.98	94.56	-5,382.92	1,665.64	5,647.77	5,642.64	5.13	1,100.484		
1,000.00	993.06	640.00	639.35	3.63	2.15	94.54	-5,386.22	1,663.12	5,655.44	5,649.68	5.76	981.641		
1,100.00	1,089.64	678.40	677.52	4.14	2.30	94.49	-5,389.60	1,660.67	5,664.46	5,658.04	6.41	883.093		
1,200.00	1,185.27	732.00	730.72	4.70	2.51	94.50	-5,394.99	1,656.94	5,674.87	5,667.70	7.17	791.530		
1,300.00	1,279.82	755.86	754.36	5.31	2.61	94.36	-5,397.66	1,655.15	5,686.60	5,678.74	7.86	723.599		
1,400.00	1,373.17	792.10	790.22	5.97	2.76	94.27	-5,402.03	1,652.26	5,699.78	5,691.13	8.65	659.097		
1,500.00	1,465.21	825.00	822.72	6.69	2.89	94.14	-5,406.34	1,649.46	5,714.39	5,704.91	9.48	602.986		
1,600.00	1,555.84	864.53	861.68	7.47	3.07	94.03	-5,411.92	1,645.84	5,730.42	5,720.03	10.39	551.315		
1,700.00	1,644.94	919.00	915.21	8.31	3.30	93.99	-5,420.32	1,640.28	5,747.94	5,736.51	11.43	502.759		
1,800.00	1,732.39	937.98	933.83	9.23	3.39	93.73	-5,423.42	1,638.20	5,766.74	5,754.36	12.38	465.699		
1,900.00	1,818.11	978.43	973.41	10.21	3.58	93.58	-5,430.26	1,633.51	5,786.97	5,773.48	13.49	429.037		
2,000.00	1,901.97	1,012.00	1,006.19	11.26	3.74	93.37	-5,436.18	1,629.37	5,808.56	5,793.94	14.62	397.223		
2,100.00	1,983.88	1,043.84	1,037.21	12.38	3.89	93.12	-5,442.04	1,625.19	5,831.59	5,815.77	15.82	368.661		
2,200.00	2,063.74	1,070.27	1,062.88	13.57	4.02	92.81	-5,447.14	1,621.51	5,856.12	5,839.07	17.04	343.577		
2,300.00	2,141.45	1,106.00	1,097.48	14.84	4.20	92.55	-5,454.35	1,616.24	5,882.15	5,863.78	18.38	320.112		
2,327.78	2,162.65	1,106.00	1,097.48	15.21	4.20	92.40	-5,454.35	1,616.24	5,889.62	5,870.91	18.71	314.842		
2,400.00	2,217.51	1,149.48	1,139.48	16.17	4.43	92.74	-5,463.33	1,609.53	5,909.49	5,889.70	19.79	298.572		
2,500.00	2,293.49	2,500.00	1,197.32	17.51	11.68	93.22	-5,475.62	1,600.01	5,937.73	5,910.21	27.52	215.748		
2,600.00	2,369.47	1,232.00	1,219.14	18.86	4.86	93.40	-5,480.41	1,596.37	5,967.22	5,944.60	22.62	263.845		
2,700.00	2,445.45	1,254.30	1,240.64	20.22	4.98	93.58	-5,485.24	1,592.94	5,998.00	5,974.07	23.92	250.713		
2,800.00	2,521.42	1,294.44	1,279.38	21.59	5.20	93.89	-5,494.00	1,587.11	6,029.93	6,004.61	25.32	238.185		
2,900.00	2,597.40	1,427.63	1,408.36	22.97	5.91	94.92	-5,522.30	1,569.78	6,062.45	6,035.27	27.18	223.055		
3,000.00	2,673.38	1,503.36	1,481.80	24.34	6.31	95.50	-5,537.87	1,559.78	6,095.42	6,066.68	28.74	212.100		
3,100.00	2,749.36	1,533.93	1,511.39	25.73	6.48	95.73	-5,544.24	1,555.55	6,129.36	6,099.30	30.06	203.917		
3,200.00	2,825.33	1,570.54	1,546.79	27.11	6.68	96.01	-5,551.99	1,550.31	6,164.37	6,132.97	31.40	196.340		
3,300.00	2,901.31	1,604.56	1,579.63	28.50	6.87	96.27	-5,559.32	1,545.32	6,200.46	6,167.75	32.71	189.562		
3,400.00	2,977.29	1,637.14	1,611.05	29.90	7.05	96.52	-5,566.48	1,540.52	6,237.62	6,203.62	34.00	183.450		
3,500.00	3,053.27	1,678.00	1,650.41	31.29	7.28	96.83	-5,575.64	1,534.50	6,275.87	6,240.54	35.33	177.657		
3,600.00	3,129.24	1,743.84	1,713.84	32.69	7.65	97.33	-5,590.47	1,524.91	6,315.00	6,278.23	36.77	171.721		
3,700.00	3,205.22	2,074.10	2,033.99	34.08	9.45	99.78	-5,657.28	1,479.15	6,353.36	6,313.73	39.64	160.289		
3,800.00	3,281.20	2,151.30	2,109.18	35.48	9.86	100.34	-5,671.23	1,468.60	6,391.27	6,350.15	41.12	155.431		
3,900.00	3,357.18	2,178.09	2,135.26	36.88	10.00	100.54	-5,676.12	1,464.85	6,430.03	6,387.71	42.32	151.921		
4,000.00	3,433.15	2,207.18	2,163.52	38.29	10.16	100.75	-5,681.56	1,460.71	6,469.83	6,426.31	43.53	148.642		
4,100.00	3,509.13	2,240.00	2,195.38	39.69	10.34	100.99	-5,687.86	1,455.94	6,510.66	6,465.92	44.73	145.547		
4,200.00	3,585.11	2,275.77	2,230.09	41.09	10.53	101.24	-5,694.87	1,450.84	6,552.44	6,506.50	45.94	142.634		
4,300.00	3,661.08	2,318.18	2,271.26	42.50	10.76	101.55	-5,703.32	1,445.14	6,595.09	6,547.92	47.17	139.822		
4,400.00	3,737.06	2,394.97	2,345.83	43.90	11.18	102.09	-5,718.73	1,435.23	6,638.48	6,589.91	48.57	136.672		
4,500.00	3,813.04	4,500.00	2,450.72	45.31	22.46	102.85	-5,739.59	1,420.93	6,682.02	6,623.31	58.71	113.819		
4,600.00	3,889.02	2,565.33	2,511.50	46.71	12.09	103.28	-5,751.45	1,412.78	6,726.04	6,674.60	51.43	130.773		
4,700.00	3,964.99	2,599.42	2,544.64	48.12	12.27	103.52	-5,758.04	1,408.26	6,770.92	6,718.36	52.56	128.819		
4,800.00	4,040.97	2,646.99	2,590.83	49.53	12.53	103.84	-5,767.39	1,401.85	6,816.64	6,762.89	53.75	126.817		
4,900.00	4,116.95	4,900.00	2,904.72	50.94	23.90	106.02	-5,825.39	1,360.07	6,862.28	6,797.83	64.45	106.469		
5,000.00	4,192.93	3,093.24	3,026.59	52.35	14.83	106.83	-5,844.80	1,345.30	6,906.47	6,848.47	57.99	119.088		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,268.90	3,084.00	3,017.53	53.76	14.79	106.77	-5,843.38	1,346.37	6,951.46	6,892.61	58.85	118.117		
5,200.00	4,344.88	3,128.49	3,061.14	55.16	15.01	107.06	-5,850.49	1,341.20	6,997.17	6,937.19	59.98	116.662		
5,300.00	4,420.86	3,149.43	3,081.64	56.57	15.12	107.20	-5,854.04	1,338.77	7,043.92	6,982.96	60.96	115.544		
5,400.00	4,496.84	3,178.00	3,109.56	57.98	15.26	107.38	-5,859.08	1,335.45	7,091.61	7,029.63	61.97	114.427		
5,500.00	4,572.81	3,200.01	3,131.05	59.39	15.37	107.52	-5,863.08	1,332.87	7,140.14	7,077.20	62.94	113.451		
5,600.00	4,648.79	3,235.06	3,165.25	60.81	15.56	107.75	-5,869.54	1,328.74	7,189.45	7,125.50	63.96	112.413		
5,700.00	4,724.77	3,272.00	3,201.26	62.22	15.75	107.98	-5,876.49	1,324.31	7,239.51	7,174.54	64.97	111.424		
5,800.00	4,800.74	3,309.46	3,237.74	63.63	15.95	108.22	-5,883.63	1,319.65	7,290.28	7,224.30	65.98	110.490		
5,900.00	4,876.72	3,348.61	3,275.81	65.04	16.16	108.47	-5,891.12	1,314.44	7,341.73	7,274.74	66.99	109.602		
6,000.00	4,952.70	3,384.81	3,310.97	66.45	16.36	108.70	-5,898.11	1,309.37	7,393.85	7,325.89	67.96	108.798		
6,100.00	5,028.68	3,419.21	3,344.34	67.86	16.54	108.92	-5,904.87	1,304.57	7,446.68	7,377.77	68.91	108.063		
6,200.00	5,104.65	3,459.00	3,382.94	69.27	16.76	109.17	-5,912.86	1,299.06	7,500.19	7,430.31	69.88	107.326		
6,300.00	5,180.63	3,459.00	3,382.94	70.69	16.76	109.17	-5,912.86	1,299.06	7,554.46	7,483.86	70.60	107.002		
6,400.00	5,256.61	3,494.00	3,416.84	72.10	16.96	109.39	-5,920.15	1,294.29	7,609.40	7,537.88	71.52	106.399		
6,500.00	5,332.59	3,512.93	3,435.14	73.51	17.07	109.51	-5,924.26	1,291.77	7,665.16	7,592.83	72.32	105.984		
6,600.00	5,408.56	5,587.17	5,479.52	74.92	25.31	120.45	-6,136.56	1,159.24	7,706.91	7,624.04	82.87	93.004		
6,700.00	5,484.54	5,675.34	5,567.68	76.34	25.52	120.84	-6,135.67	1,159.57	7,745.70	7,661.69	84.02	92.194		
6,800.00	5,560.52	5,776.64	5,668.97	77.75	25.77	121.30	-6,134.39	1,159.84	7,784.68	7,699.48	85.20	91.371		
6,900.00	5,636.50	5,869.31	5,761.63	79.16	26.00	121.71	-6,132.95	1,160.18	7,823.74	7,737.40	86.35	90.607		
7,000.00	5,712.47	5,955.97	5,848.28	80.57	26.21	122.09	-6,131.42	1,160.35	7,863.04	7,775.56	87.47	89.893		
7,100.00	5,788.45	6,032.00	5,924.29	81.99	26.40	122.42	-6,129.98	1,160.37	7,902.59	7,814.04	88.55	89.240		
7,200.00	5,864.43	6,104.80	5,997.09	83.40	26.58	122.74	-6,128.59	1,160.21	7,942.52	7,852.91	89.62	88.626		
7,300.00	5,940.40	6,189.78	6,082.04	84.81	26.80	123.11	-6,126.89	1,159.89	7,982.75	7,892.03	90.72	87.997		
7,400.00	6,016.38	6,282.95	6,175.19	86.23	27.04	123.51	-6,124.86	1,159.56	8,023.17	7,931.34	91.83	87.367		
7,500.00	6,092.36	6,353.15	6,245.37	87.64	27.22	123.81	-6,123.29	1,159.29	8,063.86	7,971.00	92.87	86.832		
7,600.00	6,168.34	6,452.55	6,344.74	89.05	27.48	124.24	-6,120.94	1,158.84	8,104.80	8,010.81	93.99	86.230		
7,700.00	6,244.31	6,555.28	6,447.44	90.47	27.74	124.67	-6,118.19	1,158.49	8,145.79	8,050.67	95.12	85.639		
7,800.00	6,320.29	6,632.87	6,525.00	91.88	27.94	125.00	-6,116.10	1,158.55	8,186.96	8,090.80	96.16	85.143		
7,900.00	6,396.27	6,695.78	6,587.89	93.30	28.10	125.25	-6,114.52	1,158.83	8,228.46	8,131.33	97.14	84.709		
8,000.00	6,472.25	6,759.74	6,651.83	94.71	28.27	125.51	-6,113.06	1,159.13	8,270.41	8,172.29	98.12	84.292		
8,100.00	6,548.22	6,836.88	6,728.95	96.12	28.47	125.83	-6,111.35	1,159.50	8,312.68	8,213.55	99.13	83.853		
8,200.00	6,624.20	6,893.12	6,785.18	97.54	28.62	126.05	-6,110.17	1,159.73	8,355.32	8,255.25	100.07	83.493		
8,300.00	6,700.18	6,974.84	6,866.89	98.95	28.84	126.38	-6,108.56	1,159.98	8,398.38	8,297.29	101.09	83.077		
8,400.00	6,776.16	7,069.61	6,961.63	100.37	29.09	126.75	-6,106.57	1,160.67	8,441.48	8,339.32	102.15	82.635		
8,500.00	6,852.13	7,152.16	7,044.16	101.78	29.31	127.08	-6,104.82	1,161.36	8,484.79	8,381.63	103.17	82.245		
8,600.00	6,928.11	7,234.43	7,126.40	103.20	29.53	127.40	-6,103.01	1,162.13	8,528.28	8,424.11	104.17	81.869		
8,700.00	7,004.09	7,300.14	7,192.09	104.61	29.71	127.65	-6,101.64	1,162.83	8,572.07	8,466.96	105.11	81.553		
8,800.00	7,080.06	7,414.21	7,306.13	106.02	30.02	128.08	-6,099.21	1,164.24	8,616.04	8,509.82	106.22	81.115		
8,900.00	7,156.04	7,558.87	7,450.72	107.44	30.40	128.62	-6,095.44	1,166.98	8,659.66	8,552.22	107.44	80.603		
9,000.00	7,232.02	7,664.21	7,555.97	108.85	30.69	129.00	-6,092.58	1,170.00	8,703.16	8,594.65	108.51	80.207		
9,104.68	7,311.55	7,763.81	7,655.47	110.33	30.95	129.35	-6,089.79	1,173.31	8,748.73	8,639.14	109.59	79.832		
9,150.00	7,346.29	7,776.00	7,667.66	110.97	30.98	123.41	-6,089.43	1,173.70	8,767.02	8,657.06	109.95	79.734		
9,200.00	7,385.15	7,804.07	7,695.71	111.65	31.06	116.77	-6,088.63	1,174.53	8,783.73	8,673.30	110.43	79.541		
9,250.00	7,424.29	7,821.16	7,712.78	112.31	31.11	110.08	-6,088.17	1,174.96	8,796.75	8,685.86	110.88	79.333		
9,300.00	7,463.40	8,141.41	8,032.55	112.93	31.96	104.74	-6,075.78	1,185.94	8,805.27	8,692.85	112.43	78.320		
9,350.00	7,502.19	8,156.00	8,047.11	113.51	32.00	98.59	-6,075.06	1,186.63	8,809.30	8,696.40	112.90	78.028		
9,400.00	7,540.36	8,156.00	8,047.11	114.04	32.00	92.90	-6,075.06	1,186.63	8,809.52	8,696.20	113.32	77.740		
9,450.00	7,577.62	8,190.67	8,081.71	114.53	32.09	87.97	-6,073.42	1,188.13	8,805.79	8,691.94	113.86	77.341		
9,500.00	7,613.70	8,204.25	8,095.26	114.95	32.13	83.63	-6,072.81	1,188.64	8,798.32	8,684.02	114.31	76.972		
9,550.00	7,648.30	8,217.16	8,108.16	115.32	32.16	79.99	-6,072.25	1,189.08	8,787.10	8,672.37	114.74	76.585		
9,600.00	7,681.18	8,250.00	8,140.95	115.63	32.25	77.17	-6,070.89	1,190.04	8,772.28	8,657.06	115.22	76.138		
9,650.00	7,712.08	8,250.00	8,140.95	115.88	32.25	74.86	-6,070.89	1,190.04	8,753.77	8,638.21	115.56	75.753		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,700.00	7,740.76	8,250.00	8,140.95	116.08	32.25	73.21	-6,070.89	1,190.04	8,731.86	8,615.99	115.87	75.358		
9,750.00	7,767.01	8,271.25	8,162.18	116.23	32.31	72.36	-6,070.05	1,190.57	8,706.65	8,590.42	116.24	74.905		
9,800.00	7,790.63	8,288.29	8,179.20	116.33	32.36	72.17	-6,069.39	1,190.99	8,678.31	8,561.76	116.56	74.457		
9,850.00	7,811.44	8,303.10	8,194.00	116.38	32.40	72.67	-6,068.82	1,191.36	8,647.03	8,530.19	116.84	74.008		
9,900.00	7,829.28	8,315.59	8,206.47	116.38	32.43	73.93	-6,068.35	1,191.66	8,613.04	8,495.95	117.09	73.561		
9,950.00	7,844.01	8,325.64	8,216.52	116.35	32.46	76.03	-6,067.97	1,191.90	8,576.58	8,459.28	117.30	73.118		
10,000.00	7,855.52	8,333.18	8,224.05	116.28	32.48	79.09	-6,067.69	1,192.08	8,537.90	8,420.43	117.48	72.678		
10,050.00	7,863.72	8,338.15	8,229.02	116.18	32.49	83.29	-6,067.51	1,192.19	8,497.29	8,379.67	117.62	72.243		
10,100.00	7,868.56	8,344.00	8,234.86	116.06	32.51	88.89	-6,067.29	1,192.33	8,455.03	8,337.28	117.75	71.805		
10,145.94	7,870.00	8,344.00	8,234.86	115.92	32.51	95.36	-6,067.29	1,192.33	8,415.01	8,297.18	117.83	71.415		
10,200.00	7,870.00	8,338.80	8,229.66	115.76	32.50	95.29	-6,067.48	1,192.21	8,367.38	8,249.48	117.90	70.968		
10,300.00	7,870.00	8,335.97	8,226.83	115.46	32.49	95.25	-6,067.59	1,192.14	8,279.48	8,161.42	118.06	70.128		
10,400.00	7,870.00	8,333.12	8,223.99	115.18	32.48	95.20	-6,067.69	1,192.07	8,191.86	8,073.63	118.23	69.288		
10,500.00	7,870.00	8,330.26	8,221.13	114.91	32.47	95.16	-6,067.80	1,192.01	8,104.53	7,986.12	118.40	68.449		
10,600.00	7,870.00	8,327.38	8,218.26	114.65	32.46	95.12	-6,067.91	1,191.94	8,017.49	7,898.90	118.58	67.612		
10,700.00	7,870.00	8,324.49	8,215.37	114.41	32.46	95.08	-6,068.02	1,191.87	7,930.75	7,811.98	118.77	66.775		
10,800.00	7,870.00	8,321.59	8,212.47	114.17	32.45	95.04	-6,068.12	1,191.80	7,844.33	7,725.36	118.96	65.940		
10,900.00	7,870.00	8,318.67	8,209.56	113.95	32.44	95.00	-6,068.23	1,191.73	7,758.23	7,639.06	119.16	65.106		
11,000.00	7,870.00	8,315.74	8,206.63	113.75	32.43	94.95	-6,068.34	1,191.66	7,672.47	7,553.09	119.37	64.273		
11,100.00	7,870.00	8,312.80	8,203.69	113.55	32.42	94.91	-6,068.46	1,191.59	7,587.05	7,467.46	119.59	63.442		
11,200.00	7,870.00	8,309.84	8,200.73	113.37	32.42	94.87	-6,068.57	1,191.52	7,501.99	7,382.18	119.82	62.612		
11,300.00	7,870.00	8,306.86	8,197.76	113.20	32.41	94.83	-6,068.68	1,191.45	7,417.31	7,297.26	120.05	61.784		
11,400.00	7,870.00	8,303.87	8,194.77	113.04	32.40	94.78	-6,068.79	1,191.37	7,333.01	7,212.71	120.30	60.958		
11,500.00	7,870.00	8,300.87	8,191.77	112.89	32.39	94.74	-6,068.91	1,191.30	7,249.11	7,128.56	120.55	60.134		
11,600.00	7,870.00	8,297.85	8,188.75	112.76	32.38	94.70	-6,069.02	1,191.23	7,165.61	7,044.80	120.81	59.312		
11,700.00	7,870.00	8,294.82	8,185.72	112.64	32.37	94.65	-6,069.14	1,191.15	7,082.55	6,961.47	121.08	58.493		
11,800.00	7,870.00	8,291.77	8,182.68	112.53	32.37	94.61	-6,069.26	1,191.08	6,999.93	6,878.56	121.37	57.676		
11,900.00	7,870.00	8,288.70	8,179.62	112.44	32.36	94.56	-6,069.37	1,191.00	6,917.76	6,796.10	121.66	56.861		
12,000.00	7,870.00	8,285.62	8,176.54	112.36	32.35	94.52	-6,069.49	1,190.93	6,836.06	6,714.10	121.97	56.049		
12,100.00	7,870.00	8,282.53	8,173.45	112.29	32.34	94.48	-6,069.61	1,190.85	6,754.86	6,632.58	122.28	55.240		
12,200.00	7,870.00	8,279.42	8,170.34	112.24	32.33	94.43	-6,069.73	1,190.78	6,674.17	6,551.56	122.61	54.434		
12,300.00	7,870.00	8,276.29	8,167.22	112.20	32.32	94.39	-6,069.86	1,190.70	6,594.00	6,471.05	122.95	53.632		
12,400.00	7,870.00	8,273.15	8,164.08	112.17	32.31	94.34	-6,069.98	1,190.62	6,514.38	6,391.08	123.30	52.833		
12,500.00	7,870.00	8,269.99	8,160.92	112.16	32.31	94.29	-6,070.10	1,190.54	6,435.33	6,311.66	123.67	52.037		
12,600.00	7,870.00	8,266.82	8,157.75	112.17	32.30	94.25	-6,070.23	1,190.46	6,356.86	6,232.82	124.05	51.246		
12,700.00	7,870.00	8,263.63	8,154.57	112.19	32.29	94.20	-6,070.35	1,190.38	6,279.01	6,154.57	124.44	50.459		
12,800.00	7,870.00	8,260.42	8,151.36	112.23	32.28	94.16	-6,070.48	1,190.30	6,201.78	6,076.94	124.84	49.676		
12,900.00	7,870.00	8,257.20	8,148.15	112.28	32.27	94.11	-6,070.60	1,190.22	6,125.22	5,999.95	125.26	48.899		
13,000.00	7,870.00	8,253.96	8,144.91	112.36	32.26	94.06	-6,070.73	1,190.14	6,049.33	5,923.64	125.70	48.126		
13,100.00	7,870.00	8,250.00	8,140.95	112.45	32.25	94.01	-6,070.89	1,190.04	5,974.16	5,848.01	126.14	47.360		
13,200.00	7,870.00	8,250.00	8,140.95	112.56	32.25	94.01	-6,070.89	1,190.04	5,899.72	5,773.09	126.63	46.591		
13,300.00	7,870.00	8,250.00	8,140.95	112.68	32.25	94.01	-6,070.89	1,190.04	5,826.04	5,698.92	127.13	45.829		
13,400.00	7,870.00	8,250.00	8,140.95	112.83	32.25	94.01	-6,070.89	1,190.04	5,753.17	5,625.53	127.64	45.073		
13,500.00	7,870.00	8,250.00	8,140.95	113.00	32.25	94.01	-6,070.89	1,190.04	5,681.11	5,552.94	128.17	44.324		
13,600.00	7,870.00	8,250.00	8,140.95	113.19	32.25	94.01	-6,070.89	1,190.04	5,609.91	5,481.19	128.72	43.583		
13,700.00	7,870.00	8,250.00	8,140.95	113.40	32.25	94.01	-6,070.89	1,190.04	5,539.61	5,410.32	129.28	42.848		
13,800.00	7,870.00	8,250.00	8,140.95	113.63	32.25	94.01	-6,070.89	1,190.04	5,470.22	5,340.36	129.87	42.122		
13,900.00	7,870.00	8,250.00	8,140.95	113.89	32.25	94.01	-6,070.89	1,190.04	5,401.80	5,271.33	130.47	41.403		
14,000.00	7,870.00	8,250.00	8,140.95	114.18	32.25	94.01	-6,070.89	1,190.04	5,334.38	5,203.29	131.09	40.694		
14,100.00	7,870.00	8,250.00	8,140.95	114.48	32.25	94.01	-6,070.89	1,190.04	5,267.99	5,136.27	131.72	39.994		
14,200.00	7,870.00	8,250.00	8,140.95	114.82	32.25	94.01	-6,070.89	1,190.04	5,202.67	5,070.30	132.37	39.303		
14,300.00	7,870.00	8,250.00	8,140.95	115.18	32.25	94.01	-6,070.89	1,190.04	5,138.47	5,005.43	133.04	38.623		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,400.00	7,870.00	8,227.24	8,118.23	115.57	32.19	93.68	-6,071.82	1,189.40	5,075.32	4,941.72	133.60	37.990		
14,500.00	7,870.00	8,225.35	8,116.34	115.99	32.18	93.65	-6,071.90	1,189.35	5,013.46	4,879.17	134.29	37.334		
14,600.00	7,870.00	8,223.45	8,114.43	116.44	32.18	93.62	-6,071.98	1,189.29	4,952.84	4,817.85	134.99	36.689		
14,700.00	7,870.00	8,221.52	8,112.51	116.92	32.17	93.60	-6,072.06	1,189.22	4,893.52	4,757.80	135.72	36.057		
14,800.00	7,870.00	8,219.58	8,110.58	117.44	32.17	93.57	-6,072.14	1,189.16	4,835.54	4,699.08	136.45	35.437		
14,900.00	7,870.00	8,217.62	8,108.62	117.98	32.16	93.54	-6,072.23	1,189.10	4,778.94	4,641.73	137.21	34.830		
15,000.00	7,870.00	8,215.65	8,106.65	118.56	32.16	93.51	-6,072.31	1,189.03	4,723.78	4,585.81	137.97	34.237		
15,100.00	7,870.00	8,213.65	8,104.65	119.17	32.15	93.48	-6,072.40	1,188.97	4,670.11	4,531.36	138.75	33.658		
15,200.00	7,870.00	8,211.64	8,102.64	119.81	32.15	93.45	-6,072.49	1,188.90	4,617.98	4,478.44	139.54	33.094		
15,300.00	7,870.00	8,209.61	8,100.61	120.48	32.14	93.42	-6,072.57	1,188.83	4,567.44	4,427.10	140.34	32.546		
15,400.00	7,870.00	8,207.55	8,098.57	121.19	32.14	93.39	-6,072.66	1,188.76	4,518.55	4,377.40	141.15	32.013		
15,500.00	7,870.00	8,205.48	8,096.50	121.93	32.13	93.36	-6,072.76	1,188.68	4,471.35	4,329.39	141.96	31.497		
15,600.00	7,870.00	8,203.39	8,094.41	122.71	32.13	93.33	-6,072.85	1,188.61	4,425.91	4,283.13	142.78	30.998		
15,700.00	7,870.00	8,201.29	8,092.31	123.52	32.12	93.30	-6,072.94	1,188.53	4,382.29	4,238.68	143.60	30.517		
15,800.00	7,870.00	8,199.16	8,090.18	124.36	32.11	93.27	-6,073.04	1,188.45	4,340.52	4,196.09	144.43	30.054		
15,900.00	7,870.00	8,197.01	8,088.03	125.23	32.11	93.24	-6,073.13	1,188.37	4,300.67	4,155.42	145.25	29.609		
16,000.00	7,870.00	8,194.84	8,085.87	126.14	32.10	93.21	-6,073.23	1,188.29	4,262.80	4,116.73	146.07	29.184		
16,100.00	7,870.00	8,192.64	8,083.68	127.07	32.10	93.18	-6,073.33	1,188.21	4,226.95	4,080.07	146.88	28.778		
16,200.00	7,870.00	8,190.43	8,081.47	128.04	32.09	93.15	-6,073.43	1,188.12	4,193.17	4,045.49	147.68	28.393		
16,300.00	7,870.00	8,188.20	8,079.24	129.04	32.08	93.11	-6,073.53	1,188.03	4,161.52	4,013.05	148.47	28.029		
16,400.00	7,870.00	8,185.94	8,076.99	130.06	32.08	93.08	-6,073.64	1,187.94	4,132.05	3,982.80	149.25	27.685		
16,500.00	7,870.00	8,183.66	8,074.72	131.11	32.07	93.05	-6,073.74	1,187.85	4,104.80	3,954.79	150.01	27.363		
16,600.00	7,870.00	8,181.36	8,072.42	132.19	32.07	93.02	-6,073.85	1,187.75	4,079.82	3,929.07	150.75	27.063		
16,700.00	7,870.00	8,179.04	8,070.10	133.29	32.06	92.98	-6,073.96	1,187.66	4,057.14	3,905.68	151.47	26.785		
16,800.00	7,870.00	8,176.69	8,067.76	134.42	32.05	92.95	-6,074.07	1,187.56	4,036.82	3,884.66	152.16	26.530		
16,900.00	7,870.00	8,156.00	8,047.11	135.57	32.00	92.65	-6,075.06	1,186.63	4,018.96	3,866.27	152.69	26.321		
17,000.00	7,870.00	8,156.00	8,047.11	136.75	32.00	92.65	-6,075.06	1,186.63	4,003.41	3,850.07	153.34	26.108		
17,100.00	7,870.00	8,156.00	8,047.11	137.94	32.00	92.65	-6,075.06	1,186.63	3,990.31	3,836.36	153.95	25.919		
17,200.00	7,870.00	8,156.00	8,047.11	139.16	32.00	92.65	-6,075.06	1,186.63	3,979.68	3,825.15	154.53	25.754		
17,300.00	7,870.00	8,156.00	8,047.11	140.39	32.00	92.65	-6,075.06	1,186.63	3,971.54	3,816.47	155.07	25.612		
17,400.00	7,870.00	8,156.00	8,047.11	141.65	32.00	92.65	-6,075.06	1,186.63	3,965.90	3,810.34	155.56	25.494		
17,500.00	7,870.00	8,156.00	8,047.11	142.92	32.00	92.65	-6,075.06	1,186.63	3,962.79	3,806.77	156.02	25.399		
17,573.63	7,870.00	8,156.00	8,047.11	143.87	32.00	92.65	-6,075.06	1,186.63	3,962.10	3,805.77	156.33	25.345 CC		
17,600.00	7,870.00	8,157.75	8,048.86	144.21	32.00	92.67	-6,074.97	1,186.72	3,962.19	3,805.75	156.44	25.327 ES		
17,700.00	7,870.00	8,153.46	8,044.57	145.52	31.99	92.61	-6,075.19	1,186.51	3,964.11	3,807.34	156.78	25.285		
17,800.00	7,870.00	8,149.11	8,040.23	146.84	31.98	92.55	-6,075.40	1,186.31	3,968.56	3,811.49	157.07	25.266 SF		
17,900.00	7,870.00	8,144.71	8,035.85	148.18	31.97	92.49	-6,075.62	1,186.10	3,975.50	3,818.19	157.31	25.271		
18,000.00	7,870.00	8,140.26	8,031.41	149.54	31.96	92.42	-6,075.84	1,185.89	3,984.94	3,827.43	157.51	25.299		
18,100.00	7,870.00	8,135.76	8,026.92	150.90	31.95	92.36	-6,076.07	1,185.67	3,996.85	3,839.19	157.66	25.351		
18,200.00	7,870.00	8,131.21	8,022.38	152.28	31.93	92.29	-6,076.30	1,185.45	4,011.22	3,853.46	157.77	25.425		
18,300.00	7,870.00	8,126.60	8,017.78	153.67	31.92	92.22	-6,076.53	1,185.23	4,028.01	3,870.19	157.83	25.522		
18,400.00	7,870.00	8,121.94	8,013.13	155.07	31.91	92.16	-6,076.77	1,185.01	4,047.20	3,889.36	157.84	25.641		
18,500.00	7,870.00	8,117.22	8,008.42	156.49	31.90	92.09	-6,077.01	1,184.78	4,068.75	3,910.94	157.81	25.783		
18,600.00	7,870.00	8,112.44	8,003.66	157.91	31.88	92.02	-6,077.26	1,184.54	4,092.63	3,934.89	157.74	25.946		
18,700.00	7,870.00	8,107.61	7,998.84	159.35	31.87	91.95	-6,077.51	1,184.31	4,118.79	3,961.16	157.63	26.130		
18,800.00	7,870.00	8,102.72	7,993.96	160.79	31.86	91.88	-6,077.76	1,184.07	4,147.19	3,989.71	157.48	26.335		
18,900.00	7,870.00	8,097.77	7,989.02	162.25	31.85	91.81	-6,078.02	1,183.82	4,177.78	4,020.49	157.29	26.561		
19,000.00	7,870.00	8,092.75	7,984.02	163.71	31.83	91.74	-6,078.29	1,183.58	4,210.53	4,053.46	157.07	26.807		
19,100.00	7,870.00	8,087.68	7,978.96	165.18	31.82	91.66	-6,078.56	1,183.32	4,245.37	4,088.55	156.82	27.072		
19,200.00	7,870.00	8,082.54	7,973.83	166.66	31.81	91.59	-6,078.84	1,183.07	4,282.25	4,125.72	156.53	27.357		
19,300.00	7,870.00	8,077.34	7,968.65	168.15	31.79	91.51	-6,079.12	1,182.81	4,321.13	4,164.91	156.22	27.660		
19,400.00	7,870.00	8,072.07	7,963.39	169.65	31.78	91.44	-6,079.40	1,182.54	4,361.95	4,206.07	155.88	27.982		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,500.00	7,870.00	8,071.21	7,962.53	171.15	31.78	91.42	-6,079.44	1,182.51	4,404.65	4,249.10	155.55	28.317	
19,600.00	7,870.00	8,061.56	7,952.91	172.66	31.75	91.29	-6,079.98	1,182.01	4,449.19	4,294.05	155.14	28.678	
19,700.00	7,870.00	8,052.56	7,943.94	174.18	31.73	91.16	-6,080.47	1,181.56	4,495.50	4,340.78	154.72	29.055	
19,800.00	7,870.00	8,044.17	7,935.56	175.70	31.71	91.03	-6,080.91	1,181.16	4,543.53	4,389.24	154.29	29.448	
19,889.26	7,870.00	8,037.12	7,928.54	177.06	31.69	90.93	-6,081.27	1,180.83	4,587.81	4,433.91	153.89	29.812	

Anticollision Report

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

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 92-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	162.68	-5,380.48	1,678.14	5,636.11					
100.00	100.00	110.19	110.19	0.13	0.21	162.68	-5,380.27	1,678.07	5,635.91	5,635.57	0.34	N/A		
177.69	177.69	172.69	172.69	0.41	0.43	162.68	-5,380.14	1,678.20	5,635.81	5,634.97	0.84	6,724.415		
200.00	200.00	185.00	185.00	0.49	0.47	162.68	-5,380.13	1,678.26	5,635.82	5,634.86	0.96	5,862.150		
300.00	300.00	228.00	227.99	0.85	0.62	162.67	-5,380.26	1,678.75	5,636.47	5,635.00	1.47	3,829.885		
400.00	399.98	274.00	273.98	1.21	0.78	94.49	-5,380.77	1,679.88	5,638.34	5,636.35	1.99	2,836.591		
500.00	499.84	308.28	308.23	1.56	0.91	94.43	-5,381.39	1,681.17	5,641.52	5,639.05	2.47	2,286.089		
600.00	599.45	365.00	364.84	1.93	1.11	94.37	-5,382.84	1,684.26	5,646.10	5,643.06	3.04	1,858.687		
700.00	698.70	365.00	364.84	2.32	1.11	94.25	-5,382.84	1,684.26	5,652.01	5,648.58	3.42	1,651.247		
800.00	797.47	422.90	422.56	2.72	1.32	94.16	-5,385.00	1,688.36	5,659.12	5,655.08	4.04	1,400.818		
900.00	895.62	456.00	455.51	3.16	1.45	94.03	-5,386.62	1,691.03	5,667.72	5,663.13	4.59	1,233.862		
1,000.00	993.06	501.39	500.62	3.63	1.63	93.90	-5,389.14	1,695.33	5,677.62	5,672.39	5.23	1,085.309		
1,100.00	1,089.64	549.00	547.82	4.14	1.81	93.76	-5,392.01	1,700.89	5,688.80	5,682.88	5.92	961.757		
1,200.00	1,185.27	580.25	578.73	4.70	1.94	93.57	-5,394.09	1,705.00	5,701.23	5,694.64	6.59	865.739		
1,300.00	1,279.82	640.00	637.70	5.31	2.19	93.43	-5,398.70	1,713.45	5,715.12	5,707.70	7.42	770.644		
1,400.00	1,373.17	640.00	637.70	5.97	2.19	93.13	-5,398.70	1,713.45	5,730.09	5,722.03	8.06	711.128		
1,500.00	1,465.21	690.93	687.82	6.69	2.42	92.94	-5,403.27	1,721.23	5,746.39	5,737.42	8.97	640.912		
1,600.00	1,555.84	732.00	728.14	7.47	2.60	92.71	-5,407.37	1,727.88	5,763.98	5,754.09	9.89	582.874		
1,700.00	1,644.94	761.26	756.80	8.31	2.74	92.42	-5,410.52	1,732.88	5,782.82	5,772.00	10.83	534.132		
1,800.00	1,732.39	793.55	788.33	9.23	2.90	92.13	-5,414.22	1,738.73	5,802.97	5,791.13	11.84	490.227		
1,900.00	1,818.11	825.00	818.97	10.21	3.05	91.81	-5,418.06	1,744.75	5,824.38	5,811.48	12.91	451.325		
2,000.00	1,901.97	862.34	855.22	11.26	3.24	91.50	-5,422.89	1,752.25	5,847.01	5,832.94	14.07	415.508		
2,100.00	1,983.88	919.00	910.05	12.38	3.54	91.26	-5,430.71	1,764.22	5,870.88	5,855.48	15.40	381.318		
2,200.00	2,063.74	943.30	933.51	13.57	3.67	90.86	-5,434.21	1,769.54	5,895.69	5,879.05	16.63	354.482		
2,300.00	2,141.45	999.15	987.32	14.84	3.98	90.60	-5,442.40	1,782.00	5,921.45	5,903.36	18.09	327.290		
2,327.78	2,162.65	1,013.00	1,000.65	15.21	4.05	90.52	-5,444.46	1,785.15	5,928.76	5,910.26	18.50	320.474		
2,400.00	2,217.51	1,048.68	1,034.98	16.17	4.26	90.70	-5,449.86	1,793.28	5,948.07	5,928.50	19.57	303.928		
2,500.00	2,293.49	1,106.00	1,090.05	17.51	4.58	90.99	-5,458.87	1,806.34	5,975.59	5,954.48	21.11	283.055		
2,600.00	2,369.47	1,147.77	1,130.16	18.86	4.83	91.20	-5,465.67	1,815.84	6,003.94	5,981.37	22.57	266.040		
2,700.00	2,445.45	1,200.00	1,180.27	20.22	5.13	91.46	-5,474.43	1,827.64	6,033.11	6,009.03	24.09	250.486		
2,800.00	2,521.42	2,800.00	1,259.37	21.59	14.62	91.88	-5,488.62	1,845.85	6,062.96	6,029.69	33.27	182.229		
2,900.00	2,597.40	1,419.74	1,391.74	22.97	6.41	92.58	-5,511.35	1,874.52	6,092.26	6,064.48	27.78	219.265		
3,000.00	2,673.38	1,458.94	1,429.59	24.34	6.63	92.78	-5,518.01	1,882.28	6,122.36	6,093.14	29.22	209.497		
3,100.00	2,749.36	1,490.00	1,459.56	25.73	6.81	92.94	-5,523.50	1,888.33	6,153.44	6,122.83	30.61	201.030		
3,200.00	2,825.33	1,529.67	1,497.80	27.11	7.03	93.15	-5,530.82	1,895.93	6,185.51	6,153.47	32.03	193.086		
3,300.00	2,901.31	1,584.00	1,550.10	28.50	7.35	93.43	-5,541.46	1,906.08	6,218.69	6,185.15	33.54	185.408		
3,400.00	2,977.29	1,584.00	1,550.10	29.90	7.35	93.43	-5,541.46	1,906.08	6,252.73	6,218.02	34.71	180.140		
3,500.00	3,053.27	1,640.98	1,604.86	31.29	7.68	93.73	-5,553.23	1,916.56	6,287.69	6,251.47	36.21	173.624		
3,600.00	3,129.24	1,687.79	1,649.78	32.69	7.96	93.97	-5,563.21	1,925.12	6,323.53	6,285.88	37.65	167.960		
3,700.00	3,205.22	1,762.94	1,721.91	34.08	8.40	94.37	-5,579.45	1,938.58	6,359.97	6,320.72	39.25	162.024		
3,800.00	3,281.20	2,182.96	2,129.12	35.48	10.69	96.59	-5,659.33	2,002.83	6,393.59	6,350.72	42.87	149.126		
3,900.00	3,357.18	2,218.16	2,163.48	36.88	10.87	96.77	-5,665.38	2,007.58	6,426.96	6,382.73	44.23	145.301		
4,000.00	3,433.15	2,283.56	2,227.21	38.29	11.21	97.12	-5,676.98	2,016.53	6,461.20	6,415.45	45.75	141.217		
4,100.00	3,509.13	2,358.02	2,299.78	39.69	11.60	97.51	-5,690.04	2,026.87	6,495.75	6,448.42	47.32	137.264		
4,200.00	3,585.11	2,400.18	2,340.85	41.09	11.83	97.73	-5,697.63	2,032.60	6,531.05	6,482.35	48.70	134.120		
4,300.00	3,661.08	2,478.15	2,416.79	42.50	12.23	98.13	-5,712.04	2,042.87	6,567.11	6,516.84	50.27	130.639		
4,400.00	3,737.06	2,562.37	2,498.88	43.90	12.67	98.57	-5,727.30	2,053.88	6,603.29	6,551.42	51.87	127.293		
4,500.00	3,813.04	2,615.00	2,550.12	45.31	12.95	98.84	-5,736.94	2,061.10	6,640.06	6,586.78	53.29	124.609		
4,600.00	3,889.02	2,656.67	2,590.60	46.71	13.18	99.05	-5,744.74	2,067.13	6,677.59	6,622.96	54.63	122.232		
4,700.00	3,964.99	4,700.00	2,674.39	48.12	24.73	99.47	-5,761.34	2,080.89	6,715.89	6,650.36	65.53	102.487		
4,800.00	4,040.97	2,856.52	2,784.10	49.53	14.30	100.01	-5,782.32	2,099.99	6,753.96	6,695.89	58.07	116.301		
4,900.00	4,116.95	2,911.91	2,837.79	50.94	14.61	100.27	-5,792.60	2,108.94	6,792.43	6,732.93	59.50	114.168		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,192.93	2,981.06	2,904.81	52.35	14.99	100.60	-5,805.59	2,119.95	6,831.40	6,770.41	61.00	111.994		
5,100.00	4,268.90	3,067.15	2,988.26	53.76	15.47	101.00	-5,821.78	2,133.56	6,870.74	6,808.13	62.61	109.742		
5,200.00	4,344.88	3,132.55	3,051.71	55.16	15.83	101.31	-5,834.07	2,143.60	6,910.40	6,846.33	64.07	107.860		
5,300.00	4,420.86	3,190.23	3,107.71	56.57	16.15	101.58	-5,845.06	2,151.98	6,950.59	6,885.13	65.47	106.171		
5,400.00	4,496.84	3,242.55	3,158.46	57.98	16.44	101.83	-5,855.21	2,159.61	6,991.39	6,924.57	66.82	104.632		
5,500.00	4,572.81	3,293.89	3,208.20	59.39	16.72	102.07	-5,865.35	2,167.31	7,032.79	6,964.63	68.16	103.184		
5,600.00	4,648.79	3,343.71	3,256.43	60.81	17.00	102.30	-5,875.39	2,174.79	7,074.80	7,005.33	69.48	101.828		
5,700.00	4,724.77	3,480.08	3,388.42	62.22	17.77	102.92	-5,902.62	2,195.59	7,116.99	7,045.59	71.41	99.665		
5,800.00	4,800.74	3,536.65	3,443.14	63.63	18.09	103.17	-5,913.77	2,204.65	7,159.25	7,086.47	72.77	98.376		
5,900.00	4,876.72	3,553.00	3,458.93	65.04	18.18	103.24	-5,917.03	2,207.33	7,202.18	7,128.35	73.83	97.545		
6,000.00	4,952.70	3,605.26	3,509.35	66.45	18.49	103.47	-5,927.76	2,215.92	7,245.73	7,170.58	75.15	96.414		
6,100.00	5,028.68	3,647.00	3,549.53	67.86	18.73	103.65	-5,936.74	2,222.76	7,290.17	7,213.79	76.38	95.445		
6,200.00	5,104.65	3,714.80	3,614.64	69.27	19.14	103.94	-5,951.58	2,234.46	7,335.18	7,257.37	77.81	94.266		
6,300.00	5,180.63	3,800.49	3,696.78	70.69	19.66	104.30	-5,970.21	2,250.23	7,380.29	7,300.90	79.39	92.963		
6,400.00	5,256.61	5,568.26	5,437.99	72.10	26.85	112.24	-6,133.98	2,406.36	7,410.31	7,320.66	89.65	82.660		
6,500.00	5,332.59	5,636.82	5,506.52	73.51	26.99	112.57	-6,132.19	2,405.45	7,438.37	7,347.45	90.92	81.812		
6,600.00	5,408.56	5,701.10	5,570.77	74.92	27.13	112.89	-6,130.58	2,404.44	7,466.99	7,374.83	92.17	81.014		
6,700.00	5,484.54	5,804.42	5,674.04	76.34	27.35	113.40	-6,127.90	2,402.79	7,496.03	7,402.53	93.50	80.172		
6,800.00	5,560.52	5,870.09	5,739.68	77.75	27.50	113.72	-6,126.12	2,401.83	7,525.41	7,430.67	94.73	79.439		
6,900.00	5,636.50	5,964.25	5,833.80	79.16	27.70	114.17	-6,123.57	2,400.48	7,555.25	7,459.22	96.02	78.681		
7,000.00	5,712.47	6,059.56	5,929.05	80.57	27.91	114.63	-6,120.68	2,399.14	7,585.27	7,487.96	97.31	77.951		
7,100.00	5,788.45	6,157.69	6,027.12	81.99	28.14	115.10	-6,117.47	2,397.84	7,615.55	7,516.96	98.59	77.245		
7,200.00	5,864.43	6,264.33	6,133.69	83.40	28.38	115.61	-6,113.62	2,396.59	7,645.99	7,546.11	99.88	76.549		
7,300.00	5,940.40	6,330.17	6,199.48	84.81	28.53	115.92	-6,111.15	2,395.87	7,676.74	7,575.68	101.07	75.956		
7,400.00	6,016.38	6,399.90	6,269.16	86.23	28.69	116.24	-6,108.66	2,395.24	7,708.04	7,605.78	102.25	75.382		
7,500.00	6,092.36	6,477.52	6,346.73	87.64	28.88	116.60	-6,105.96	2,394.88	7,739.74	7,636.29	103.45	74.814		
7,600.00	6,168.34	6,551.63	6,420.80	89.05	29.06	116.94	-6,103.47	2,394.98	7,771.86	7,667.22	104.64	74.273		
7,700.00	6,244.31	6,605.34	6,474.48	90.47	29.20	117.18	-6,101.79	2,395.28	7,804.50	7,698.74	105.76	73.793		
7,800.00	6,320.29	6,664.13	6,533.25	91.88	29.35	117.45	-6,100.16	2,395.73	7,837.74	7,730.85	106.89	73.326		
7,900.00	6,396.27	6,742.55	6,611.63	93.30	29.55	117.80	-6,098.04	2,396.24	7,871.43	7,763.36	108.06	72.840		
8,000.00	6,472.25	6,841.60	6,710.63	94.71	29.80	118.24	-6,095.04	2,396.15	7,905.37	7,796.09	109.28	72.340		
8,100.00	6,548.22	6,932.44	6,801.42	96.12	30.02	118.65	-6,091.90	2,395.25	7,939.52	7,829.07	110.45	71.882		
8,200.00	6,624.20	6,993.12	6,862.05	97.54	30.17	118.92	-6,089.74	2,394.31	7,974.05	7,862.53	111.52	71.500		
8,300.00	6,700.18	7,062.28	6,931.16	98.95	30.34	119.24	-6,087.32	2,393.00	8,009.09	7,896.48	112.61	71.123		
8,400.00	6,776.16	7,134.10	7,002.92	100.37	30.52	119.56	-6,084.85	2,391.72	8,044.51	7,930.82	113.69	70.758		
8,500.00	6,852.13	7,194.42	7,063.20	101.78	30.67	119.83	-6,082.86	2,390.65	8,080.42	7,965.69	114.73	70.430		
8,600.00	6,928.11	7,282.04	7,150.77	103.20	30.89	120.21	-6,080.05	2,389.21	8,116.75	8,000.91	115.84	70.069		
8,700.00	7,004.09	7,351.63	7,220.32	104.61	31.06	120.52	-6,077.80	2,388.34	8,153.34	8,036.45	116.89	69.752		
8,800.00	7,080.06	7,411.75	7,280.40	106.02	31.22	120.78	-6,075.96	2,387.53	8,190.42	8,072.51	117.90	69.467		
8,900.00	7,156.04	7,471.61	7,340.23	107.44	31.37	121.04	-6,074.22	2,386.66	8,227.99	8,109.09	118.91	69.197		
9,000.00	7,232.02	7,531.30	7,399.88	108.85	31.53	121.30	-6,072.60	2,385.72	8,266.06	8,146.16	119.90	68.943		
9,104.68	7,311.55	7,593.45	7,462.01	110.33	31.69	121.57	-6,070.99	2,384.62	8,306.43	8,185.51	120.92	68.693		
9,150.00	7,346.29	7,620.28	7,488.82	110.97	31.76	116.02	-6,070.34	2,384.14	8,322.46	8,201.09	121.37	68.570		
9,200.00	7,385.15	7,650.27	7,518.81	111.65	31.84	109.70	-6,069.66	2,383.65	8,336.45	8,214.56	121.89	68.393		
9,250.00	7,424.29	7,683.00	7,551.52	112.31	31.92	103.31	-6,068.97	2,383.18	8,346.47	8,224.04	122.43	68.173		
9,300.00	7,463.40	7,703.85	7,772.23	112.93	32.56	97.83	-6,063.99	2,387.51	8,351.87	8,228.20	123.67	67.534		
9,350.00	7,502.19	7,771.10	7,839.40	113.51	32.77	92.03	-6,062.11	2,390.33	8,352.80	8,228.42	124.38	67.156		
9,400.00	7,540.36	8,010.61	7,878.86	114.04	32.88	86.60	-6,060.88	2,391.83	8,349.56	8,224.58	124.98	66.807		
9,450.00	7,577.62	8,050.20	7,918.41	114.53	33.00	81.76	-6,059.59	2,393.16	8,342.25	8,216.68	125.57	66.436		
9,500.00	7,613.70	8,082.67	7,950.85	114.95	33.10	77.55	-6,058.49	2,394.12	8,330.94	8,204.82	126.11	66.059		
9,550.00	7,648.30	8,111.46	7,979.61	115.32	33.18	74.01	-6,057.50	2,394.88	8,315.73	8,189.11	126.63	65.672		
9,600.00	7,681.18	8,138.52	8,006.65	115.63	33.26	71.14	-6,056.56	2,395.50	8,296.75	8,169.65	127.11	65.274		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,650.00	7,712.08	8,163.37	8,031.48	115.88	33.33	68.95	-6,055.70	2,396.01	8,274.14	8,146.59	127.55	64.869		
9,700.00	7,740.76	8,185.57	8,053.66	116.08	33.40	67.41	-6,054.93	2,396.42	8,248.05	8,120.10	127.96	64.459		
9,750.00	7,767.01	8,205.71	8,073.79	116.23	33.46	66.53	-6,054.23	2,396.77	8,218.69	8,090.36	128.33	64.044		
9,800.00	7,790.63	8,223.63	8,091.70	116.33	33.51	66.34	-6,053.62	2,397.07	8,186.25	8,057.59	128.66	63.628		
9,850.00	7,811.44	8,239.22	8,107.27	116.38	33.55	66.89	-6,053.09	2,397.31	8,150.97	8,022.02	128.95	63.210		
9,900.00	7,829.28	8,252.59	8,120.63	116.38	33.59	68.27	-6,052.64	2,397.51	8,113.10	7,983.89	129.21	62.792		
9,950.00	7,844.01	8,264.22	8,132.25	116.35	33.62	70.66	-6,052.25	2,397.67	8,072.90	7,943.48	129.43	62.375		
10,000.00	7,855.52	8,272.97	8,141.00	116.28	33.65	74.28	-6,051.96	2,397.79	8,030.67	7,901.06	129.61	61.961		
10,050.00	7,863.72	8,278.77	8,146.80	116.18	33.67	79.50	-6,051.76	2,397.87	7,986.71	7,856.95	129.76	61.551		
10,100.00	7,868.56	8,281.59	8,149.61	116.06	33.67	86.83	-6,051.67	2,397.91	7,941.32	7,811.45	129.88	61.146		
10,145.94	7,870.00	8,281.51	8,149.54	115.92	33.67	95.91	-6,051.67	2,397.91	7,898.65	7,768.70	129.96	60.778		
10,200.00	7,870.00	8,279.93	8,147.96	115.76	33.67	95.88	-6,051.72	2,397.89	7,848.03	7,717.99	130.04	60.350		
10,300.00	7,870.00	8,277.00	8,145.03	115.46	33.66	95.82	-6,051.82	2,397.85	7,754.50	7,624.30	130.20	59.559		
10,400.00	7,870.00	8,274.07	8,142.10	115.18	33.65	95.76	-6,051.92	2,397.81	7,661.14	7,530.77	130.36	58.768		
10,500.00	7,870.00	8,271.13	8,139.16	114.91	33.64	95.70	-6,052.02	2,397.77	7,567.94	7,437.41	130.53	57.979		
10,600.00	7,870.00	8,268.19	8,136.22	114.65	33.64	95.64	-6,052.12	2,397.73	7,474.92	7,344.22	130.70	57.190		
10,700.00	7,870.00	8,265.25	8,133.28	114.41	33.63	95.58	-6,052.22	2,397.69	7,382.08	7,251.20	130.88	56.403		
10,800.00	7,870.00	8,262.30	8,130.34	114.17	33.62	95.52	-6,052.31	2,397.64	7,289.43	7,158.36	131.07	55.617		
10,900.00	7,870.00	8,259.36	8,127.39	113.95	33.61	95.46	-6,052.41	2,397.60	7,196.97	7,065.71	131.26	54.832		
11,000.00	7,870.00	8,256.40	8,124.44	113.75	33.60	95.40	-6,052.51	2,397.56	7,104.71	6,973.26	131.45	54.048		
11,100.00	7,870.00	8,253.45	8,121.49	113.55	33.59	95.33	-6,052.61	2,397.52	7,012.67	6,881.02	131.65	53.266		
11,200.00	7,870.00	8,250.49	8,118.53	113.37	33.58	95.27	-6,052.71	2,397.48	6,920.85	6,788.98	131.86	52.486		
11,300.00	7,870.00	8,247.73	8,115.78	113.20	33.58	95.22	-6,052.80	2,397.44	6,829.25	6,697.17	132.08	51.706		
11,400.00	7,870.00	8,245.01	8,113.06	113.04	33.57	95.16	-6,052.90	2,397.40	6,737.89	6,605.59	132.30	50.929		
11,500.00	7,870.00	8,242.28	8,110.33	112.89	33.56	95.10	-6,052.99	2,397.36	6,646.78	6,514.25	132.53	50.153		
11,600.00	7,870.00	8,239.55	8,107.60	112.76	33.55	95.05	-6,053.08	2,397.31	6,555.93	6,423.16	132.77	49.379		
11,700.00	7,870.00	8,236.81	8,104.86	112.64	33.55	94.99	-6,053.17	2,397.27	6,465.34	6,332.33	133.01	48.607		
11,800.00	7,870.00	8,234.06	8,102.11	112.53	33.54	94.93	-6,053.27	2,397.23	6,375.04	6,241.77	133.27	47.837		
11,900.00	7,870.00	8,231.30	8,099.36	112.44	33.53	94.88	-6,053.36	2,397.19	6,285.02	6,151.50	133.53	47.069		
12,000.00	7,870.00	8,228.54	8,096.60	112.36	33.52	94.82	-6,053.45	2,397.15	6,195.32	6,061.52	133.80	46.304		
12,100.00	7,870.00	8,225.78	8,093.84	112.29	33.51	94.76	-6,053.55	2,397.10	6,105.93	5,971.85	134.08	45.541		
12,200.00	7,870.00	8,223.00	8,091.07	112.24	33.51	94.70	-6,053.64	2,397.06	6,016.87	5,882.51	134.36	44.781		
12,300.00	7,870.00	8,220.22	8,088.29	112.20	33.50	94.65	-6,053.74	2,397.01	5,928.16	5,793.50	134.66	44.023		
12,400.00	7,870.00	8,217.44	8,085.51	112.17	33.49	94.59	-6,053.83	2,396.97	5,839.81	5,704.85	134.97	43.269		
12,500.00	7,870.00	8,214.65	8,082.72	112.16	33.48	94.53	-6,053.93	2,396.92	5,751.85	5,616.57	135.28	42.517		
12,600.00	7,870.00	8,211.85	8,079.92	112.17	33.47	94.47	-6,054.02	2,396.88	5,664.28	5,528.67	135.61	41.769		
12,700.00	7,870.00	8,209.04	8,077.12	112.19	33.47	94.41	-6,054.12	2,396.83	5,577.13	5,441.18	135.95	41.024		
12,800.00	7,870.00	8,206.23	8,074.31	112.23	33.46	94.36	-6,054.21	2,396.78	5,490.41	5,354.11	136.30	40.283		
12,900.00	7,870.00	8,203.41	8,071.49	112.28	33.45	94.30	-6,054.31	2,396.73	5,404.15	5,267.50	136.66	39.546		
13,000.00	7,870.00	8,200.59	8,068.67	112.36	33.44	94.24	-6,054.41	2,396.69	5,318.37	5,181.34	137.03	38.813		
13,100.00	7,870.00	8,197.76	8,065.84	112.45	33.43	94.18	-6,054.51	2,396.64	5,233.09	5,095.68	137.41	38.084		
13,200.00	7,870.00	8,194.92	8,063.00	112.56	33.42	94.12	-6,054.60	2,396.59	5,148.35	5,010.54	137.81	37.359		
13,300.00	7,870.00	8,192.08	8,060.16	112.68	33.42	94.06	-6,054.70	2,396.54	5,064.15	4,925.94	138.21	36.640		
13,400.00	7,870.00	8,189.22	8,057.31	112.83	33.41	94.00	-6,054.80	2,396.49	4,980.54	4,841.90	138.64	35.925		
13,500.00	7,870.00	8,186.37	8,054.46	113.00	33.40	93.94	-6,054.90	2,396.43	4,897.54	4,758.47	139.07	35.216		
13,600.00	7,870.00	8,183.50	8,051.59	113.19	33.39	93.88	-6,055.00	2,396.38	4,815.19	4,675.67	139.52	34.513		
13,700.00	7,870.00	8,180.63	8,048.73	113.40	33.38	93.82	-6,055.10	2,396.33	4,733.51	4,593.53	139.98	33.816		
13,800.00	7,870.00	8,177.75	8,045.85	113.63	33.38	93.76	-6,055.20	2,396.28	4,652.54	4,512.09	140.46	33.125		
13,900.00	7,870.00	8,174.87	8,042.97	113.89	33.37	93.70	-6,055.30	2,396.22	4,572.33	4,431.39	140.95	32.440		
14,000.00	7,870.00	8,171.98	8,040.08	114.18	33.36	93.64	-6,055.40	2,396.17	4,492.91	4,351.46	141.45	31.763		
14,100.00	7,870.00	8,169.08	8,037.18	114.48	33.35	93.58	-6,055.50	2,396.12	4,414.32	4,272.36	141.97	31.094		
14,200.00	7,870.00	8,166.18	8,034.28	114.82	33.34	93.52	-6,055.60	2,396.06	4,336.62	4,194.12	142.50	30.433		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,300.00	7,870.00	8,163.26	8,031.37	115.18	33.33	93.46	-6,055.70	2,396.00	4,259.84	4,116.79	143.04	29.780		
14,400.00	7,870.00	8,160.35	8,028.46	115.57	33.32	93.40	-6,055.80	2,395.95	4,184.04	4,040.43	143.60	29.136		
14,500.00	7,870.00	8,157.42	8,025.53	115.99	33.32	93.34	-6,055.90	2,395.89	4,109.27	3,965.09	144.18	28.501		
14,600.00	7,870.00	8,156.00	8,024.11	116.44	33.31	93.31	-6,055.95	2,395.86	4,035.59	3,890.82	144.77	27.875		
14,700.00	7,870.00	8,151.83	8,019.94	116.92	33.30	93.23	-6,056.10	2,395.78	3,963.06	3,817.70	145.36	27.263		
14,800.00	7,870.00	8,149.08	8,017.20	117.44	33.29	93.17	-6,056.20	2,395.72	3,891.75	3,745.78	145.97	26.661		
14,900.00	7,870.00	8,146.33	8,014.45	117.98	33.28	93.11	-6,056.29	2,395.67	3,821.73	3,675.13	146.59	26.070		
15,000.00	7,870.00	8,143.59	8,011.72	118.56	33.28	93.06	-6,056.39	2,395.61	3,753.05	3,605.83	147.22	25.492		
15,100.00	7,870.00	8,140.86	8,008.98	119.17	33.27	93.00	-6,056.48	2,395.55	3,685.81	3,537.95	147.86	24.928		
15,200.00	7,870.00	8,138.13	8,006.25	119.81	33.26	92.94	-6,056.58	2,395.49	3,620.09	3,471.58	148.50	24.377		
15,300.00	7,870.00	8,135.40	8,003.53	120.48	33.25	92.88	-6,056.67	2,395.43	3,555.95	3,406.80	149.15	23.841		
15,400.00	7,870.00	8,132.68	8,000.81	121.19	33.24	92.83	-6,056.77	2,395.37	3,493.50	3,343.70	149.80	23.321		
15,500.00	7,870.00	8,129.96	7,998.10	121.93	33.24	92.77	-6,056.86	2,395.31	3,432.82	3,282.38	150.44	22.818		
15,600.00	7,870.00	8,127.25	7,995.39	122.71	33.23	92.72	-6,056.95	2,395.25	3,374.02	3,222.93	151.08	22.332		
15,700.00	7,870.00	8,124.54	7,992.68	123.52	33.22	92.66	-6,057.05	2,395.19	3,317.18	3,165.47	151.72	21.864		
15,800.00	7,870.00	8,121.84	7,989.98	124.36	33.21	92.60	-6,057.14	2,395.13	3,262.42	3,110.08	152.33	21.416		
15,900.00	7,870.00	8,119.14	7,987.28	125.23	33.20	92.55	-6,057.24	2,395.06	3,209.83	3,056.90	152.94	20.988		
16,000.00	7,870.00	8,116.44	7,984.59	126.14	33.20	92.49	-6,057.33	2,395.00	3,159.54	3,006.02	153.52	20.581		
16,100.00	7,870.00	8,113.75	7,981.90	127.07	33.19	92.43	-6,057.42	2,394.93	3,111.64	2,957.57	154.07	20.196		
16,200.00	7,870.00	8,111.07	7,979.22	128.04	33.18	92.38	-6,057.51	2,394.87	3,066.25	2,911.66	154.59	19.835		
16,300.00	7,870.00	8,108.39	7,976.54	129.04	33.17	92.32	-6,057.61	2,394.80	3,023.49	2,868.41	155.07	19.497		
16,400.00	7,870.00	8,105.71	7,973.86	130.06	33.17	92.27	-6,057.70	2,394.73	2,983.46	2,827.95	155.51	19.185		
16,500.00	7,870.00	8,103.04	7,971.19	131.11	33.16	92.21	-6,057.79	2,394.66	2,946.28	2,790.39	155.90	18.899		
16,600.00	7,870.00	8,100.37	7,968.53	132.19	33.15	92.16	-6,057.88	2,394.60	2,912.06	2,755.84	156.23	18.640		
16,700.00	7,870.00	8,097.70	7,965.87	133.29	33.14	92.10	-6,057.97	2,394.53	2,880.91	2,724.41	156.50	18.409		
16,800.00	7,870.00	8,095.04	7,963.21	134.42	33.13	92.05	-6,058.06	2,394.46	2,852.91	2,696.22	156.70	18.206		
16,900.00	7,870.00	8,092.39	7,960.56	135.57	33.13	91.99	-6,058.16	2,394.39	2,828.18	2,671.35	156.83	18.034		
17,000.00	7,870.00	8,089.74	7,957.91	136.75	33.12	91.93	-6,058.25	2,394.32	2,806.79	2,649.91	156.88	17.892		
17,100.00	7,870.00	8,087.09	7,955.26	137.94	33.11	91.88	-6,058.34	2,394.24	2,788.81	2,631.97	156.85	17.780		
17,200.00	7,870.00	8,084.45	7,952.62	139.16	33.10	91.82	-6,058.43	2,394.17	2,774.33	2,617.60	156.73	17.701		
17,300.00	7,870.00	8,081.81	7,949.99	140.39	33.10	91.77	-6,058.52	2,394.10	2,763.39	2,606.85	156.53	17.654		
17,400.00	7,870.00	8,079.18	7,947.36	141.65	33.09	91.72	-6,058.61	2,394.03	2,756.03	2,599.78	156.25	17.639 SF		
17,500.00	7,870.00	8,076.55	7,944.73	142.92	33.08	91.66	-6,058.70	2,393.95	2,752.28	2,596.40	155.88	17.656		
17,553.27	7,870.00	8,075.15	7,943.33	143.61	33.08	91.63	-6,058.74	2,393.91	2,751.77	2,596.12	155.65	17.679 CC, ES		
17,600.00	7,870.00	8,073.92	7,942.11	144.21	33.07	91.61	-6,058.79	2,393.88	2,752.16	2,596.74	155.43	17.707		
17,700.00	7,870.00	8,071.30	7,939.49	145.52	33.06	91.55	-6,058.88	2,393.80	2,755.67	2,600.78	154.89	17.791		
17,800.00	7,870.00	8,068.68	7,936.88	146.84	33.06	91.50	-6,058.96	2,393.72	2,762.80	2,608.51	154.28	17.907		
17,900.00	7,870.00	8,066.07	7,934.27	148.18	33.05	91.44	-6,059.05	2,393.65	2,773.51	2,619.90	153.60	18.056		
18,000.00	7,870.00	8,061.00	7,929.20	149.54	33.03	91.34	-6,059.23	2,393.50	2,787.76	2,634.93	152.83	18.241		
18,100.00	7,870.00	8,061.00	7,929.20	150.90	33.03	91.34	-6,059.23	2,393.50	2,805.51	2,653.45	152.05	18.451		
18,200.00	7,870.00	8,061.00	7,929.20	152.28	33.03	91.34	-6,059.23	2,393.50	2,826.68	2,675.45	151.23	18.692		
18,300.00	7,870.00	8,055.80	7,924.00	153.67	33.02	91.23	-6,059.40	2,393.34	2,851.20	2,700.90	150.30	18.970		
18,400.00	7,870.00	8,053.29	7,921.50	155.07	33.01	91.18	-6,059.49	2,393.26	2,878.98	2,729.61	149.37	19.274		
18,500.00	7,870.00	8,050.80	7,919.01	156.49	33.00	91.12	-6,059.57	2,393.18	2,909.94	2,761.53	148.41	19.608		
18,600.00	7,870.00	8,048.32	7,916.53	157.91	33.00	91.07	-6,059.65	2,393.10	2,943.96	2,796.53	147.43	19.969		
18,700.00	7,870.00	8,045.86	7,914.07	159.35	32.99	91.02	-6,059.73	2,393.03	2,980.95	2,834.51	146.44	20.357		
18,800.00	7,870.00	8,043.41	7,911.63	160.79	32.98	90.97	-6,059.82	2,392.95	3,020.79	2,875.36	145.44	20.770		
18,900.00	7,870.00	8,040.98	7,909.20	162.25	32.98	90.92	-6,059.90	2,392.87	3,063.38	2,918.95	144.44	21.209		
19,000.00	7,870.00	8,038.56	7,906.79	163.71	32.97	90.87	-6,059.98	2,392.79	3,108.61	2,965.16	143.45	21.671		
19,100.00	7,870.00	8,036.16	7,904.39	165.18	32.96	90.82	-6,060.06	2,392.71	3,156.35	3,013.88	142.46	22.156		
19,200.00	7,870.00	8,033.77	7,902.00	166.66	32.95	90.77	-6,060.13	2,392.63	3,206.49	3,065.00	141.50	22.661		
19,300.00	7,870.00	8,031.40	7,899.63	168.15	32.95	90.72	-6,060.21	2,392.55	3,258.94	3,118.39	140.55	23.187		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 2-4-26 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 92-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,870.00	8,029.04	7,897.27	169.65	32.94	90.67	-6,060.29	2,392.48	3,313.56	3,173.94	139.62	23.732	
19,500.00	7,870.00	8,026.69	7,894.93	171.15	32.93	90.62	-6,060.36	2,392.40	3,370.27	3,231.55	138.72	24.295	
19,600.00	7,870.00	8,024.36	7,892.60	172.66	32.93	90.57	-6,060.44	2,392.32	3,428.96	3,291.11	137.85	24.875	
19,700.00	7,870.00	8,022.05	7,890.29	174.18	32.92	90.53	-6,060.52	2,392.24	3,489.52	3,352.52	137.00	25.471	
19,800.00	7,870.00	8,019.74	7,887.99	175.70	32.91	90.48	-6,060.59	2,392.16	3,551.86	3,415.68	136.19	26.081	
19,889.26	7,870.00	8,017.70	7,885.94	177.06	32.91	90.44	-6,060.66	2,392.09	3,608.94	3,473.45	135.48	26.638	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	149.29	-5,442.26	3,232.50	6,329.90					
100.00	100.00	60.61	60.61	0.13	0.09	149.29	-5,442.41	3,232.41	6,329.97	6,329.75	0.22	N/A		
200.00	200.00	165.00	164.99	0.49	0.44	149.30	-5,442.98	3,231.35	6,329.92	6,328.99	0.93	6,808.361		
210.47	210.47	188.02	188.00	0.53	0.52	149.31	-5,443.14	3,230.96	6,329.84	6,328.79	1.05	6,031.882		
300.00	300.00	224.73	224.71	0.85	0.65	149.31	-5,443.59	3,230.52	6,330.22	6,328.72	1.50	4,215.055		
400.00	399.98	255.00	254.98	1.21	0.76	81.15	-5,444.13	3,230.31	6,331.29	6,329.32	1.96	3,222.466		
500.00	499.84	301.50	301.46	1.56	0.93	81.15	-5,445.30	3,230.29	6,332.75	6,330.27	2.49	2,547.695		
600.00	599.45	349.00	348.93	1.93	1.10	81.16	-5,446.97	3,230.67	6,334.72	6,331.70	3.02	2,096.778		
700.00	698.70	385.92	385.81	2.32	1.23	81.15	-5,448.52	3,231.18	6,337.05	6,333.52	3.54	1,792.606		
800.00	797.47	441.00	440.82	2.72	1.43	81.18	-5,451.10	3,232.21	6,339.64	6,335.51	4.13	1,533.175		
900.00	895.62	479.89	479.65	3.16	1.57	81.20	-5,453.19	3,233.10	6,342.54	6,337.83	4.71	1,347.681		
1,000.00	993.06	536.00	535.62	3.63	1.77	81.25	-5,456.76	3,234.57	6,345.89	6,340.51	5.37	1,181.046		
1,100.00	1,089.64	536.00	535.62	4.14	1.77	81.18	-5,456.76	3,234.57	6,349.69	6,343.81	5.88	1,080.400		
1,200.00	1,185.27	585.54	584.99	4.70	1.96	81.22	-5,460.59	3,236.10	6,353.92	6,347.31	6.61	961.905		
1,300.00	1,279.82	623.00	622.27	5.31	2.10	81.24	-5,464.01	3,237.47	6,358.85	6,351.51	7.34	866.644		
1,400.00	1,373.17	657.55	656.62	5.97	2.24	81.25	-5,467.45	3,238.83	6,364.28	6,356.16	8.11	784.450		
1,500.00	1,465.21	711.00	709.72	6.69	2.44	81.33	-5,473.13	3,241.08	6,370.10	6,361.09	9.01	706.648		
1,600.00	1,555.84	737.22	735.74	7.47	2.55	81.31	-5,476.07	3,242.32	6,376.37	6,366.50	9.87	645.709		
1,700.00	1,644.94	768.49	766.75	8.31	2.67	81.30	-5,479.72	3,244.10	6,383.24	6,372.42	10.82	590.175		
1,800.00	1,732.39	798.00	795.98	9.23	2.79	81.28	-5,483.31	3,246.05	6,390.71	6,378.90	11.81	540.966		
1,900.00	1,818.11	835.27	832.85	10.21	2.95	81.29	-5,488.05	3,248.77	6,398.75	6,385.84	12.91	495.694		
2,000.00	1,901.97	885.00	881.96	11.26	3.16	81.36	-5,494.78	3,252.65	6,407.39	6,393.27	14.12	453.806		
2,100.00	1,983.88	885.00	881.96	12.38	3.16	81.18	-5,494.78	3,252.65	6,416.60	6,401.39	15.20	422.051		
2,200.00	2,063.74	926.02	922.40	13.57	3.33	81.20	-5,500.72	3,256.18	6,426.40	6,409.88	16.52	388.996		
2,300.00	2,141.45	973.00	968.58	14.84	3.54	81.25	-5,507.99	3,260.76	6,437.07	6,419.14	17.93	359.005		
2,327.78	2,162.65	973.00	968.58	15.21	3.54	81.19	-5,507.99	3,260.76	6,440.07	6,421.79	18.28	352.297		
2,400.00	2,217.51	982.16	977.57	16.17	3.58	81.24	-5,509.46	3,261.70	6,448.34	6,429.11	19.24	335.167		
2,500.00	2,293.49	1,048.56	1,042.75	17.51	3.88	81.61	-5,520.21	3,268.52	6,460.63	6,439.83	20.80	310.611		
2,600.00	2,369.47	1,094.64	1,087.94	18.86	4.09	81.88	-5,527.80	3,273.25	6,473.75	6,451.46	22.29	290.480		
2,700.00	2,445.45	1,152.46	1,144.60	20.22	4.36	82.20	-5,537.62	3,279.30	6,487.87	6,464.04	23.83	272.277		
2,800.00	2,521.42	1,333.00	1,321.77	21.59	5.21	83.22	-5,566.90	3,297.98	6,502.03	6,476.12	25.92	250.869		
2,900.00	2,597.40	1,387.42	1,375.26	22.97	5.46	83.52	-5,575.36	3,303.30	6,516.18	6,488.72	27.46	237.294		
3,000.00	2,673.38	1,431.18	1,418.24	24.34	5.66	83.77	-5,582.50	3,307.50	6,531.38	6,502.42	28.96	225.562		
3,100.00	2,749.36	1,490.23	1,476.17	25.73	5.95	84.10	-5,592.37	3,313.13	6,547.46	6,516.93	30.52	214.523		
3,200.00	2,825.33	1,535.30	1,520.38	27.11	6.16	84.35	-5,600.06	3,317.41	6,564.39	6,532.37	32.02	205.002		
3,300.00	2,901.31	1,574.28	1,558.57	28.50	6.35	84.57	-5,606.92	3,321.17	6,582.33	6,548.84	33.49	196.548		
3,400.00	2,977.29	1,616.98	1,600.36	29.90	6.56	84.81	-5,614.67	3,325.33	6,601.28	6,566.31	34.97	188.758		
3,500.00	3,053.27	1,663.78	1,646.11	31.29	6.79	85.08	-5,623.40	3,329.82	6,621.17	6,584.70	36.47	181.551		
3,600.00	3,129.24	1,724.99	1,705.91	32.69	7.10	85.42	-5,635.07	3,335.64	6,641.92	6,603.89	38.04	174.626		
3,700.00	3,205.22	1,860.21	1,838.08	34.08	7.77	86.18	-5,660.40	3,348.95	6,663.20	6,623.23	39.97	166.719		
3,800.00	3,281.20	2,155.28	2,127.70	35.48	9.20	87.79	-5,708.36	3,378.37	6,682.86	6,640.19	42.68	156.595		
3,900.00	3,357.18	2,206.00	2,177.60	36.88	9.43	88.06	-5,716.04	3,383.20	6,702.38	6,658.19	44.20	151.650		
4,000.00	3,433.15	2,243.38	2,214.35	38.29	9.61	88.26	-5,721.92	3,386.65	6,722.82	6,677.17	45.65	147.283		
4,100.00	3,509.13	2,293.00	2,263.10	39.69	9.85	88.53	-5,729.91	3,391.33	6,744.17	6,697.02	47.15	143.043		
4,200.00	3,585.11	2,338.58	2,307.84	41.09	10.07	88.78	-5,737.42	3,395.77	6,766.39	6,717.76	48.62	139.155		
4,300.00	3,661.08	2,494.41	2,460.84	42.50	10.82	89.61	-5,762.33	3,411.65	6,788.93	6,738.27	50.66	134.009		
4,400.00	3,737.06	2,532.33	2,498.09	43.90	11.00	89.81	-5,768.29	3,415.42	6,811.69	6,759.60	52.09	130.766		
4,500.00	3,813.04	2,555.00	2,520.36	45.31	11.11	89.93	-5,771.96	3,417.65	6,835.45	6,782.01	53.43	127.926		
4,600.00	3,889.02	2,588.11	2,552.82	46.71	11.28	90.11	-5,777.56	3,420.90	6,860.24	6,805.43	54.82	125.144		
4,700.00	3,964.99	2,611.58	2,575.81	48.12	11.39	90.23	-5,781.74	3,423.23	6,886.16	6,830.02	56.14	122.657		
4,800.00	4,040.97	2,643.00	2,606.51	49.53	11.55	90.40	-5,787.62	3,426.35	6,913.19	6,855.70	57.50	120.238		
4,900.00	4,116.95	2,834.65	2,794.07	50.94	12.51	91.41	-5,821.93	3,445.69	6,940.15	6,880.42	59.74	116.182		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 73-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,192.93	2,888.28	2,846.58	52.35	12.78	91.69	-5,831.13	3,451.49	6,967.22	6,906.02	61.21	113.828		
5,100.00	4,268.90	2,939.77	2,896.96	53.76	13.04	91.95	-5,840.12	3,457.19	6,995.04	6,932.38	62.66	111.630		
5,200.00	4,344.88	2,992.00	2,948.03	55.16	13.30	92.22	-5,849.43	3,462.96	7,023.62	6,959.50	64.11	109.550		
5,300.00	4,420.86	3,099.76	3,053.50	56.57	13.84	92.78	-5,868.90	3,473.38	7,052.68	6,986.81	65.87	107.068		
5,400.00	4,496.84	3,209.01	3,160.63	57.98	14.38	93.35	-5,888.09	3,482.91	7,081.68	7,014.05	67.63	104.715		
5,500.00	4,572.81	3,287.29	3,237.37	59.39	14.76	93.75	-5,901.72	3,490.12	7,111.14	7,041.94	69.21	102.753		
5,600.00	4,648.79	3,370.17	3,318.65	60.81	15.17	94.17	-5,915.99	3,497.86	7,140.94	7,070.14	70.80	100.855		
5,700.00	4,724.77	3,439.01	3,386.21	62.22	15.51	94.53	-5,928.07	3,503.23	7,171.30	7,098.99	72.31	99.172		
5,800.00	4,800.74	3,561.13	3,506.03	63.63	16.10	95.14	-5,948.71	3,514.54	7,201.74	7,127.61	74.13	97.154		
5,900.00	4,876.72	3,635.71	3,579.19	65.04	16.47	95.51	-5,961.11	3,521.99	7,232.53	7,156.87	75.66	95.588		
6,000.00	4,952.70	3,844.65	3,784.65	66.45	17.46	96.55	-5,994.17	3,540.66	7,263.02	7,185.06	77.96	93.159		
6,100.00	5,028.68	3,929.70	3,868.48	67.86	17.86	96.98	-6,006.97	3,547.06	7,293.29	7,213.75	79.54	91.693		
6,200.00	5,104.65	3,989.45	3,927.33	69.27	18.14	97.27	-6,015.88	3,552.32	7,324.01	7,243.03	80.97	90.451		
6,300.00	5,180.63	4,040.47	3,977.52	70.69	18.38	97.52	-6,023.63	3,557.18	7,355.41	7,273.07	82.35	89.323		
6,400.00	5,256.61	4,144.05	4,079.41	72.10	18.87	98.01	-6,039.33	3,567.26	7,387.23	7,303.21	84.02	87.917		
6,500.00	5,332.59	4,163.80	4,098.84	73.51	18.96	98.11	-6,042.45	3,569.00	7,419.70	7,334.50	85.20	87.089		
6,600.00	5,408.56	5,128.15	5,055.63	74.92	22.87	102.84	-6,143.34	3,615.72	7,451.59	7,360.52	91.06	81.827		
6,700.00	5,484.54	6,700.00	5,246.08	76.34	27.86	103.77	-6,150.22	3,618.68	7,475.57	7,378.00	97.56	76.623		
6,800.00	5,560.52	5,467.63	5,394.91	77.75	23.94	104.52	-6,153.69	3,618.35	7,498.94	7,404.28	94.66	79.219		
6,900.00	5,636.50	5,592.17	5,519.42	79.16	24.29	105.14	-6,155.76	3,616.73	7,522.36	7,426.12	96.24	78.163		
7,000.00	5,712.47	5,896.25	5,823.39	80.57	25.09	106.67	-6,155.57	3,608.77	7,545.26	7,446.96	98.30	76.754		
7,100.00	5,788.45	5,978.95	5,906.04	81.99	25.30	107.09	-6,154.12	3,606.69	7,567.14	7,467.44	99.70	75.899		
7,200.00	5,864.43	6,062.98	5,990.04	83.40	25.51	107.50	-6,152.54	3,604.73	7,589.45	7,488.36	101.09	75.076		
7,300.00	5,940.40	6,151.81	6,078.83	84.81	25.73	107.94	-6,150.74	3,602.91	7,612.15	7,509.66	102.48	74.276		
7,400.00	6,016.38	6,242.23	6,169.22	86.23	25.96	108.38	-6,148.75	3,601.34	7,635.21	7,531.34	103.87	73.504		
7,500.00	6,092.36	6,336.49	6,263.44	87.64	26.21	108.84	-6,146.45	3,599.80	7,658.60	7,553.33	105.27	72.754		
7,600.00	6,168.34	6,430.94	6,357.83	89.05	26.45	109.29	-6,143.92	3,598.30	7,682.28	7,575.64	106.65	72.034		
7,700.00	6,244.31	6,481.16	6,408.04	90.47	26.58	109.53	-6,142.69	3,597.70	7,706.57	7,598.66	107.90	71.422		
7,800.00	6,320.29	6,543.66	6,470.52	91.88	26.74	109.83	-6,141.21	3,597.11	7,731.43	7,622.26	109.18	70.816		
7,900.00	6,396.27	6,618.59	6,545.43	93.30	26.95	110.18	-6,139.56	3,596.71	7,756.86	7,646.38	110.48	70.210		
8,000.00	6,472.25	6,703.69	6,630.50	94.71	27.18	110.58	-6,137.64	3,596.77	7,782.68	7,670.87	111.81	69.606		
8,100.00	6,548.22	6,783.82	6,710.62	96.12	27.40	110.95	-6,135.78	3,597.29	7,808.87	7,695.75	113.12	69.032		
8,200.00	6,624.20	6,858.54	6,785.31	97.54	27.61	111.29	-6,134.06	3,597.91	7,835.50	7,721.09	114.40	68.490		
8,300.00	6,700.18	6,933.36	6,860.10	98.95	27.82	111.63	-6,132.37	3,598.60	7,862.57	7,746.90	115.68	67.970		
8,400.00	6,776.16	7,007.80	6,934.53	100.37	28.03	111.97	-6,130.72	3,599.36	7,890.10	7,773.15	116.94	67.469		
8,500.00	6,852.13	7,082.39	7,009.09	101.78	28.24	112.30	-6,129.09	3,600.18	7,918.06	7,799.86	118.20	66.989		
8,600.00	6,928.11	7,156.37	7,083.05	103.20	28.45	112.63	-6,127.51	3,601.05	7,946.47	7,827.02	119.45	66.527		
8,700.00	7,004.09	7,230.29	7,156.95	104.61	28.67	112.96	-6,125.97	3,601.99	7,975.31	7,854.63	120.68	66.085		
8,800.00	7,080.06	7,304.27	7,230.91	106.02	28.88	113.29	-6,124.46	3,602.94	8,004.58	7,882.67	121.91	65.660		
8,900.00	7,156.04	7,377.80	7,304.42	107.44	29.09	113.61	-6,122.94	3,603.53	8,034.28	7,911.16	123.12	65.256		
9,000.00	7,232.02	7,450.70	7,377.30	108.85	29.30	113.94	-6,121.43	3,603.71	8,064.42	7,940.10	124.32	64.870		
9,104.68	7,311.55	7,522.75	7,449.34	110.33	29.51	114.26	-6,119.95	3,603.68	8,096.46	7,970.91	125.54	64.492		
9,150.00	7,346.29	7,554.27	7,480.86	110.97	29.60	110.90	-6,119.32	3,603.64	8,108.78	7,982.70	126.08	64.316		
9,200.00	7,385.15	7,589.43	7,516.00	111.65	29.70	102.93	-6,118.64	3,603.58	8,118.48	7,991.80	126.68	64.085		
9,250.00	7,424.29	7,625.05	7,551.62	112.31	29.80	96.74	-6,117.95	3,603.49	8,124.04	7,996.74	127.30	63.818		
9,300.00	7,463.40	7,662.37	7,588.93	112.93	29.91	90.63	-6,117.26	3,603.42	8,125.41	7,997.49	127.93	63.517		
9,350.00	7,502.19	7,699.37	7,625.93	113.51	30.02	84.77	-6,116.58	3,603.41	8,122.59	7,994.05	128.55	63.188		
9,400.00	7,540.36	7,735.80	7,662.35	114.04	30.13	79.35	-6,115.92	3,603.43	8,115.60	7,986.44	129.16	62.836		
9,450.00	7,577.62	7,771.36	7,697.90	114.53	30.23	74.46	-6,115.30	3,603.51	8,104.49	7,974.75	129.75	62.465		
9,500.00	7,613.70	7,806.29	7,732.83	114.95	30.33	70.18	-6,114.70	3,603.62	8,089.35	7,959.03	130.31	62.077		
9,550.00	7,648.30	7,840.58	7,767.11	115.32	30.44	66.55	-6,114.11	3,603.73	8,070.27	7,939.42	130.85	61.675		
9,600.00	7,681.18	7,873.07	7,799.60	115.63	30.53	63.54	-6,113.55	3,603.84	8,047.41	7,916.05	131.36	61.264		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 73-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,650.00	7,712.08	7,903.52	7,830.04	115.88	30.62	61.15	-6,113.03	3,603.95	8,020.92	7,889.09	131.82	60.847		
9,700.00	7,740.76	7,931.69	7,858.21	116.08	30.70	59.37	-6,112.55	3,604.04	7,990.99	7,858.74	132.25	60.424		
9,750.00	7,767.01	7,957.37	7,883.89	116.23	30.78	58.21	-6,112.11	3,604.13	7,957.85	7,825.21	132.63	60.000		
9,800.00	7,790.63	7,980.37	7,906.88	116.33	30.85	57.68	-6,111.72	3,604.21	7,921.72	7,788.75	132.97	59.575		
9,850.00	7,811.44	8,000.37	7,926.88	116.38	30.91	57.85	-6,111.38	3,604.28	7,882.88	7,749.61	133.27	59.151		
9,900.00	7,829.28	8,017.43	7,943.94	116.38	30.96	58.84	-6,111.09	3,604.35	7,841.59	7,708.07	133.52	58.729		
9,950.00	7,844.01	8,031.36	7,957.87	116.35	31.00	60.91	-6,110.85	3,604.40	7,798.17	7,664.43	133.73	58.311		
10,000.00	7,855.52	8,042.06	7,968.57	116.28	31.03	64.47	-6,110.67	3,604.45	7,752.91	7,619.01	133.91	57.898		
10,050.00	7,863.72	8,049.44	7,975.94	116.18	31.06	70.35	-6,110.54	3,604.48	7,706.16	7,572.12	134.04	57.491		
10,100.00	7,868.56	8,053.44	7,979.94	116.06	31.07	80.14	-6,110.48	3,604.50	7,658.25	7,524.11	134.14	57.091		
10,145.94	7,870.00	8,054.11	7,980.61	115.92	31.07	94.92	-6,110.47	3,604.50	7,613.52	7,479.31	134.21	56.730		
10,200.00	7,870.00	8,053.20	7,979.70	115.76	31.07	94.89	-6,110.48	3,604.49	7,560.59	7,426.32	134.27	56.310		
10,300.00	7,870.00	8,051.51	7,978.01	115.46	31.06	94.83	-6,110.51	3,604.49	7,462.73	7,328.35	134.38	55.534		
10,400.00	7,870.00	8,049.82	7,976.32	115.18	31.06	94.76	-6,110.54	3,604.48	7,364.93	7,230.43	134.50	54.757		
10,500.00	7,870.00	8,048.13	7,974.63	114.91	31.05	94.70	-6,110.57	3,604.47	7,267.18	7,132.56	134.62	53.982		
10,600.00	7,870.00	8,046.44	7,972.95	114.65	31.05	94.64	-6,110.59	3,604.47	7,169.50	7,034.75	134.75	53.206		
10,700.00	7,870.00	8,044.75	7,971.25	114.41	31.04	94.58	-6,110.62	3,604.46	7,071.88	6,937.00	134.88	52.431		
10,800.00	7,870.00	8,043.06	7,969.56	114.17	31.04	94.51	-6,110.65	3,604.45	6,974.33	6,839.32	135.01	51.657		
10,900.00	7,870.00	8,041.37	7,967.87	113.95	31.03	94.45	-6,110.68	3,604.44	6,876.85	6,741.70	135.15	50.882		
11,000.00	7,870.00	8,039.67	7,966.18	113.75	31.03	94.39	-6,110.71	3,604.44	6,779.44	6,644.15	135.30	50.109		
11,100.00	7,870.00	8,037.98	7,964.49	113.55	31.02	94.33	-6,110.74	3,604.43	6,682.11	6,546.67	135.44	49.335		
11,200.00	7,870.00	8,036.29	7,962.79	113.37	31.02	94.26	-6,110.77	3,604.42	6,584.86	6,449.26	135.60	48.563		
11,300.00	7,870.00	8,034.59	7,961.10	113.20	31.01	94.20	-6,110.80	3,604.42	6,487.69	6,351.94	135.75	47.790		
11,400.00	7,870.00	8,032.89	7,959.40	113.04	31.01	94.14	-6,110.82	3,604.41	6,390.61	6,254.69	135.92	47.019		
11,500.00	7,870.00	8,031.20	7,957.70	112.89	31.00	94.07	-6,110.85	3,604.40	6,293.62	6,157.53	136.08	46.248		
11,600.00	7,870.00	8,029.50	7,956.01	112.76	31.00	94.01	-6,110.88	3,604.40	6,196.72	6,060.46	136.26	45.478		
11,700.00	7,870.00	8,027.80	7,954.31	112.64	30.99	93.95	-6,110.91	3,604.39	6,099.92	5,963.49	136.44	44.708		
11,800.00	7,870.00	8,026.10	7,952.61	112.53	30.99	93.89	-6,110.94	3,604.38	6,003.23	5,866.61	136.62	43.940		
11,900.00	7,870.00	8,024.40	7,950.91	112.44	30.98	93.82	-6,110.97	3,604.38	5,906.65	5,769.83	136.82	43.172		
12,000.00	7,870.00	8,022.70	7,949.21	112.36	30.98	93.76	-6,111.00	3,604.37	5,810.18	5,673.17	137.02	42.405		
12,100.00	7,870.00	8,021.00	7,947.51	112.29	30.97	93.70	-6,111.03	3,604.36	5,713.84	5,576.62	137.22	41.639		
12,200.00	7,870.00	8,019.30	7,945.80	112.24	30.97	93.63	-6,111.06	3,604.36	5,617.62	5,480.18	137.44	40.875		
12,300.00	7,870.00	8,017.59	7,944.10	112.20	30.96	93.57	-6,111.08	3,604.35	5,521.53	5,383.88	137.66	40.111		
12,400.00	7,870.00	8,015.89	7,942.40	112.17	30.96	93.51	-6,111.11	3,604.34	5,425.59	5,287.70	137.89	39.348		
12,500.00	7,870.00	8,014.18	7,940.69	112.16	30.95	93.44	-6,111.14	3,604.34	5,329.79	5,191.67	138.12	38.587		
12,600.00	7,870.00	8,012.48	7,938.99	112.17	30.95	93.38	-6,111.17	3,604.33	5,234.15	5,095.78	138.37	37.827		
12,700.00	7,870.00	8,010.77	7,937.28	112.19	30.94	93.32	-6,111.20	3,604.32	5,138.68	5,000.05	138.63	37.068		
12,800.00	7,870.00	8,009.06	7,935.57	112.23	30.94	93.25	-6,111.23	3,604.32	5,043.38	4,904.49	138.89	36.311		
12,900.00	7,870.00	8,007.35	7,933.86	112.28	30.93	93.19	-6,111.26	3,604.31	4,948.27	4,809.10	139.17	35.556		
13,000.00	7,870.00	8,005.65	7,932.16	112.36	30.93	93.13	-6,111.29	3,604.30	4,853.35	4,713.90	139.46	34.802		
13,100.00	7,870.00	8,003.94	7,930.45	112.45	30.92	93.06	-6,111.32	3,604.30	4,758.64	4,618.89	139.75	34.050		
13,200.00	7,870.00	8,002.22	7,928.74	112.56	30.91	93.00	-6,111.35	3,604.29	4,664.15	4,524.09	140.06	33.300		
13,300.00	7,870.00	8,000.51	7,927.02	112.68	30.91	92.94	-6,111.37	3,604.28	4,569.90	4,429.51	140.38	32.553		
13,400.00	7,870.00	7,998.80	7,925.31	112.83	30.90	92.87	-6,111.40	3,604.28	4,475.89	4,335.17	140.72	31.807		
13,500.00	7,870.00	7,997.09	7,923.60	113.00	30.90	92.81	-6,111.43	3,604.27	4,382.15	4,241.08	141.07	31.064		
13,600.00	7,870.00	7,995.37	7,921.89	113.19	30.89	92.75	-6,111.46	3,604.26	4,288.69	4,147.25	141.43	30.323		
13,700.00	7,870.00	7,993.66	7,920.17	113.40	30.89	92.68	-6,111.49	3,604.26	4,195.53	4,053.72	141.81	29.586		
13,800.00	7,870.00	7,991.94	7,918.46	113.63	30.88	92.62	-6,111.52	3,604.25	4,102.69	3,960.48	142.20	28.851		
13,900.00	7,870.00	7,990.23	7,916.74	113.89	30.88	92.56	-6,111.55	3,604.25	4,010.19	3,867.58	142.61	28.119		
14,000.00	7,870.00	7,988.51	7,915.02	114.18	30.87	92.49	-6,111.58	3,604.24	3,918.07	3,775.02	143.04	27.391		
14,100.00	7,870.00	7,986.79	7,913.31	114.48	30.87	92.43	-6,111.61	3,604.23	3,826.33	3,682.84	143.49	26.666		
14,200.00	7,870.00	7,985.07	7,911.59	114.82	30.86	92.36	-6,111.64	3,604.23	3,735.03	3,591.07	143.96	25.946		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,300.00	7,870.00	7,983.35	7,909.87	115.18	30.86	92.30	-6,111.67	3,604.22	3,644.17	3,499.73	144.44	25.229		
14,400.00	7,870.00	7,981.63	7,908.15	115.57	30.85	92.24	-6,111.70	3,604.21	3,553.81	3,408.86	144.95	24.518		
14,500.00	7,870.00	7,979.91	7,906.43	115.99	30.85	92.17	-6,111.73	3,604.21	3,463.98	3,318.50	145.48	23.811		
14,600.00	7,870.00	7,978.19	7,904.70	116.44	30.84	92.11	-6,111.76	3,604.20	3,374.71	3,228.68	146.03	23.110		
14,700.00	7,870.00	7,976.47	7,902.98	116.92	30.84	92.04	-6,111.78	3,604.20	3,286.07	3,139.46	146.60	22.415		
14,800.00	7,870.00	7,974.74	7,901.26	117.44	30.83	91.98	-6,111.81	3,604.19	3,198.09	3,050.89	147.20	21.725		
14,900.00	7,870.00	7,973.02	7,899.53	117.98	30.83	91.92	-6,111.84	3,604.18	3,110.84	2,963.01	147.83	21.043		
15,000.00	7,870.00	7,971.29	7,897.81	118.56	30.82	91.85	-6,111.87	3,604.18	3,024.38	2,875.90	148.48	20.369		
15,100.00	7,870.00	7,969.57	7,896.08	119.17	30.82	91.79	-6,111.90	3,604.17	2,938.78	2,789.62	149.16	19.702		
15,200.00	7,870.00	7,967.84	7,894.36	119.81	30.81	91.72	-6,111.93	3,604.17	2,854.11	2,704.24	149.86	19.045		
15,300.00	7,870.00	7,966.13	7,892.64	120.48	30.81	91.66	-6,111.96	3,604.16	2,770.46	2,619.87	150.59	18.397		
15,400.00	7,870.00	7,964.42	7,890.93	121.19	30.80	91.60	-6,111.99	3,604.15	2,687.93	2,536.58	151.35	17.760		
15,500.00	7,870.00	7,962.70	7,889.22	121.93	30.80	91.53	-6,112.02	3,604.15	2,606.62	2,454.49	152.13	17.134		
15,600.00	7,870.00	7,960.99	7,887.51	122.71	30.79	91.47	-6,112.05	3,604.14	2,526.65	2,373.72	152.93	16.521		
15,700.00	7,870.00	7,959.28	7,885.79	123.52	30.79	91.41	-6,112.08	3,604.14	2,448.15	2,294.40	153.76	15.922		
15,800.00	7,870.00	7,957.56	7,884.08	124.36	30.78	91.34	-6,112.11	3,604.13	2,371.28	2,216.68	154.60	15.338		
15,900.00	7,870.00	7,955.85	7,882.37	125.23	30.78	91.28	-6,112.14	3,604.12	2,296.18	2,140.73	155.45	14.772		
16,000.00	7,870.00	7,954.14	7,880.65	126.14	30.77	91.21	-6,112.17	3,604.12	2,223.04	2,066.74	156.30	14.223		
16,100.00	7,870.00	7,952.42	7,878.94	127.07	30.77	91.15	-6,112.20	3,604.11	2,152.07	1,994.92	157.15	13.695		
16,200.00	7,870.00	7,950.71	7,877.23	128.04	30.76	91.09	-6,112.23	3,604.11	2,083.47	1,925.49	157.98	13.189		
16,300.00	7,870.00	7,949.00	7,875.52	129.04	30.76	91.02	-6,112.25	3,604.10	2,017.50	1,858.73	158.77	12.707		
16,400.00	7,870.00	7,947.28	7,873.80	130.06	30.75	90.96	-6,112.28	3,604.10	1,954.42	1,794.90	159.52	12.252		
16,500.00	7,870.00	7,945.57	7,872.09	131.11	30.75	90.90	-6,112.31	3,604.09	1,894.52	1,734.32	160.20	11.826		
16,600.00	7,870.00	7,943.86	7,870.38	132.19	30.74	90.83	-6,112.34	3,604.08	1,838.11	1,677.33	160.78	11.432		
16,700.00	7,870.00	7,942.14	7,868.66	133.29	30.74	90.77	-6,112.37	3,604.08	1,785.52	1,624.28	161.24	11.073		
16,800.00	7,870.00	7,940.43	7,866.95	134.42	30.73	90.70	-6,112.40	3,604.07	1,737.10	1,575.55	161.55	10.753		
16,900.00	7,870.00	7,938.72	7,865.24	135.57	30.73	90.64	-6,112.43	3,604.07	1,693.21	1,531.53	161.67	10.473		
17,000.00	7,870.00	7,937.00	7,863.52	136.75	30.72	90.58	-6,112.46	3,604.06	1,654.20	1,492.62	161.58	10.238		
17,100.00	7,870.00	7,935.29	7,861.81	137.94	30.72	90.51	-6,112.49	3,604.05	1,620.43	1,459.19	161.23	10.050		
17,200.00	7,870.00	7,933.58	7,860.10	139.16	30.71	90.45	-6,112.52	3,604.05	1,592.23	1,431.61	160.61	9.913		
17,300.00	7,870.00	7,931.86	7,858.38	140.39	30.71	90.39	-6,112.55	3,604.04	1,569.90	1,410.20	159.70	9.830		
17,400.00	7,870.00	7,930.15	7,856.67	141.65	30.70	90.32	-6,112.58	3,604.04	1,553.70	1,395.21	158.49	9.803 SF		
17,500.00	7,870.00	7,928.43	7,854.96	142.92	30.70	90.26	-6,112.61	3,604.03	1,543.82	1,386.84	156.98	9.835		
17,600.00	7,870.00	7,926.72	7,853.24	144.21	30.69	90.20	-6,112.64	3,604.02	1,540.38	1,385.19	155.19	9.926 ES		
17,603.10	7,870.00	7,926.67	7,853.19	144.25	30.69	90.19	-6,112.64	3,604.02	1,540.37	1,385.24	155.13	9.930 CC		
17,700.00	7,870.00	7,925.01	7,851.53	145.52	30.69	90.13	-6,112.67	3,604.02	1,543.42	1,390.26	153.15	10.078		
17,800.00	7,870.00	7,923.29	7,849.82	146.84	30.68	90.07	-6,112.69	3,604.01	1,552.90	1,401.99	150.92	10.290		
17,900.00	7,870.00	7,921.58	7,848.10	148.18	30.68	90.00	-6,112.72	3,604.01	1,568.72	1,420.19	148.53	10.562		
18,000.00	7,870.00	7,919.87	7,846.39	149.54	30.67	89.94	-6,112.75	3,604.00	1,590.67	1,444.62	146.05	10.891		
18,100.00	7,870.00	7,918.15	7,844.68	150.90	30.66	89.88	-6,112.78	3,604.00	1,618.51	1,474.98	143.53	11.276		
18,200.00	7,870.00	7,916.44	7,842.96	152.28	30.66	89.81	-6,112.81	3,603.99	1,651.95	1,510.92	141.03	11.713		
18,300.00	7,870.00	7,914.72	7,841.25	153.67	30.65	89.75	-6,112.84	3,603.98	1,690.64	1,552.04	138.60	12.198		
18,400.00	7,870.00	7,913.01	7,839.53	155.07	30.65	89.69	-6,112.87	3,603.98	1,734.25	1,597.98	136.27	12.726		
18,500.00	7,870.00	7,911.30	7,837.82	156.49	30.64	89.62	-6,112.90	3,603.97	1,782.40	1,648.32	134.08	13.294		
18,600.00	7,870.00	7,909.58	7,836.11	157.91	30.64	89.56	-6,112.93	3,603.97	1,834.74	1,702.71	132.03	13.896		
18,700.00	7,870.00	7,907.87	7,834.39	159.35	30.63	89.49	-6,112.96	3,603.96	1,890.92	1,760.77	130.16	14.528		
18,800.00	7,870.00	7,906.15	7,832.68	160.79	30.63	89.43	-6,112.99	3,603.95	1,950.62	1,822.16	128.45	15.186		
18,900.00	7,870.00	7,904.44	7,830.96	162.25	30.62	89.37	-6,113.02	3,603.95	2,013.51	1,886.59	126.92	15.865		
19,000.00	7,870.00	7,902.73	7,829.25	163.71	30.62	89.30	-6,113.05	3,603.94	2,079.31	1,953.76	125.55	16.562		
19,100.00	7,870.00	7,901.01	7,827.54	165.18	30.61	89.24	-6,113.08	3,603.94	2,147.75	2,023.41	124.33	17.274		
19,200.00	7,870.00	7,899.30	7,825.82	166.66	30.61	89.18	-6,113.11	3,603.93	2,218.58	2,095.32	123.26	17.999		
19,300.00	7,870.00	7,897.58	7,824.11	168.15	30.60	89.11	-6,113.13	3,603.92	2,291.59	2,169.26	122.33	18.733		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,400.00	7,870.00	7,895.87	7,822.39	169.65	30.60	89.05	-6,113.16	3,603.92	2,366.57	2,245.05	121.52	19.475	
19,500.00	7,870.00	7,894.15	7,820.68	171.15	30.59	88.98	-6,113.19	3,603.91	2,443.35	2,322.53	120.82	20.223	
19,600.00	7,870.00	7,892.44	7,818.97	172.66	30.59	88.92	-6,113.22	3,603.91	2,521.75	2,401.53	120.22	20.976	
19,700.00	7,870.00	7,890.72	7,817.25	174.18	30.58	88.86	-6,113.25	3,603.90	2,601.63	2,481.92	119.71	21.733	
19,800.00	7,870.00	7,889.01	7,815.54	175.70	30.58	88.79	-6,113.28	3,603.90	2,682.86	2,563.58	119.27	22.493	
19,889.26	7,870.00	7,887.48	7,814.01	177.06	30.57	88.74	-6,113.31	3,603.89	2,756.40	2,637.45	118.95	23.173	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	161.98	-5,370.28	1,746.75	5,647.23					
100.00	100.00	67.28	67.28	0.13	0.11	161.98	-5,370.41	1,746.70	5,647.36	5,647.12	0.24	N/A		
200.00	200.00	175.30	175.29	0.49	0.42	161.99	-5,370.87	1,746.56	5,647.73	5,646.81	0.92	6,153.664		
300.00	300.00	316.07	316.07	0.85	0.91	161.99	-5,370.63	1,746.45	5,647.54	5,645.77	1.76	3,202.534		
400.00	399.98	422.25	422.25	1.21	1.28	93.87	-5,369.97	1,746.46	5,647.06	5,644.58	2.48	2,272.896		
500.00	499.84	578.12	578.11	1.56	1.83	93.95	-5,368.27	1,747.07	5,646.63	5,643.24	3.39	1,665.872		
600.00	599.45	670.26	670.23	1.93	2.15	94.04	-5,366.38	1,747.78	5,645.53	5,641.44	4.08	1,382.205		
700.00	698.70	755.61	755.55	2.32	2.46	94.15	-5,364.95	1,748.49	5,645.05	5,640.28	4.77	1,182.676		
759.07	757.11	809.49	809.42	2.56	2.65	94.22	-5,364.12	1,748.94	5,644.97	5,639.77	5.21	1,084.402		
800.00	797.47	845.98	845.92	2.72	2.78	94.28	-5,363.58	1,749.28	5,645.01	5,639.51	5.50	1,025.791		
900.00	895.62	923.01	922.93	3.16	3.06	94.40	-5,362.50	1,750.13	5,645.49	5,639.27	6.21	908.474		
1,000.00	993.06	981.30	981.21	3.63	3.26	94.50	-5,362.01	1,750.95	5,646.89	5,639.99	6.89	819.257		
1,100.00	1,089.64	1,055.12	1,055.03	4.14	3.52	94.63	-5,361.79	1,752.22	5,649.23	5,641.57	7.67	736.968		
1,200.00	1,185.27	1,149.95	1,149.83	4.70	3.86	94.84	-5,361.66	1,754.09	5,652.21	5,643.66	8.56	660.471		
1,300.00	1,279.82	1,263.06	1,262.93	5.31	4.26	95.13	-5,361.49	1,755.54	5,655.44	5,645.87	9.57	591.213		
1,400.00	1,373.17	1,354.53	1,354.41	5.97	4.58	95.39	-5,361.37	1,755.98	5,658.97	5,648.42	10.55	536.568		
1,500.00	1,465.21	1,445.52	1,445.39	6.69	4.89	95.66	-5,361.49	1,756.05	5,663.21	5,651.63	11.58	489.230		
1,600.00	1,555.84	1,555.81	1,555.68	7.47	5.27	96.04	-5,361.46	1,755.94	5,667.91	5,655.18	12.73	445.251		
1,700.00	1,644.94	1,652.66	1,652.54	8.31	5.61	96.38	-5,361.13	1,755.82	5,673.01	5,659.10	13.90	407.985		
1,800.00	1,732.39	1,734.54	1,734.41	9.23	5.89	96.66	-5,360.90	1,755.59	5,678.91	5,663.81	15.09	376.281		
1,900.00	1,818.11	1,828.51	1,828.37	10.21	6.22	97.02	-5,360.84	1,754.86	5,685.74	5,669.36	16.38	347.016		
2,000.00	1,901.97	1,942.35	1,942.21	11.26	6.61	97.51	-5,360.23	1,753.23	5,692.91	5,675.10	17.81	319.590		
2,100.00	1,983.88	2,012.21	2,012.06	12.38	6.85	97.75	-5,359.89	1,752.12	5,701.16	5,682.00	19.16	297.608		
2,200.00	2,063.74	2,089.76	2,089.59	13.57	7.12	98.04	-5,359.63	1,750.68	5,710.57	5,689.98	20.59	277.299		
2,300.00	2,141.45	2,169.15	2,168.96	14.84	7.40	98.34	-5,359.39	1,749.03	5,721.14	5,699.04	22.10	258.833		
2,327.78	2,162.65	2,190.99	2,190.79	15.21	7.48	98.42	-5,359.32	1,748.58	5,724.28	5,701.75	22.53	254.039		
2,400.00	2,217.51	2,245.94	2,245.74	16.17	7.67	98.79	-5,359.13	1,747.46	5,732.77	5,709.11	23.65	242.360		
2,500.00	2,293.49	2,323.36	2,323.14	17.51	7.94	99.30	-5,358.84	1,745.85	5,745.14	5,719.92	25.22	227.819		
2,600.00	2,369.47	2,406.07	2,405.83	18.86	8.23	99.85	-5,358.48	1,744.00	5,758.18	5,731.37	26.81	214.817		
2,700.00	2,445.45	2,503.56	2,503.27	20.22	8.57	100.49	-5,357.88	1,741.16	5,771.75	5,743.30	28.45	202.900		
2,800.00	2,521.42	2,557.91	2,557.59	21.59	8.76	100.85	-5,357.56	1,739.52	5,786.06	5,756.12	29.93	193.298		
2,900.00	2,597.40	2,600.00	2,599.68	22.97	8.91	101.13	-5,357.38	1,738.51	5,801.35	5,769.98	31.37	184.915		
3,000.00	2,673.38	2,658.32	2,657.99	24.34	9.12	101.51	-5,357.36	1,737.32	5,817.66	5,784.79	32.87	177.013		
3,100.00	2,749.36	2,711.63	2,711.28	25.73	9.30	101.86	-5,357.63	1,736.35	5,835.05	5,800.71	34.33	169.947		
3,200.00	2,825.33	3,200.00	2,861.04	27.11	11.03	102.82	-5,357.48	1,734.12	5,852.71	5,815.36	37.35	156.709		
3,300.00	2,901.31	3,036.20	3,035.79	28.50	10.45	103.93	-5,354.25	1,732.40	5,869.56	5,831.51	38.05	154.263		
3,400.00	2,977.29	3,100.00	3,099.57	29.90	10.68	104.33	-5,352.74	1,731.70	5,886.93	5,847.39	39.54	148.877		
3,500.00	3,053.27	3,153.60	3,153.15	31.29	10.87	104.67	-5,351.64	1,730.93	5,905.19	5,864.20	40.99	144.062		
3,600.00	3,129.24	3,200.00	3,199.54	32.69	11.03	104.96	-5,350.88	1,730.13	5,924.43	5,882.03	42.40	139.717		
3,700.00	3,205.22	3,248.84	3,248.36	34.08	11.21	105.27	-5,350.32	1,729.04	5,944.69	5,900.87	43.81	135.681		
3,800.00	3,281.20	3,300.00	3,299.50	35.48	11.39	105.60	-5,350.05	1,727.46	5,966.01	5,920.79	45.22	131.930		
3,900.00	3,357.18	3,399.73	3,399.16	36.88	11.74	106.24	-5,349.52	1,723.80	5,988.05	5,941.25	46.80	127.958		
4,000.00	3,433.15	3,459.97	3,459.35	38.29	11.96	106.63	-5,349.08	1,721.49	6,010.58	5,962.36	48.22	124.657		
4,100.00	3,509.13	3,531.05	3,530.38	39.69	12.21	107.08	-5,348.70	1,718.82	6,033.93	5,984.26	49.67	121.489		
4,200.00	3,585.11	3,622.20	3,621.48	41.09	12.54	107.66	-5,348.03	1,715.79	6,057.79	6,006.61	51.18	118.362		
4,300.00	3,661.08	3,707.09	3,706.33	42.50	12.84	108.18	-5,347.24	1,713.64	6,082.14	6,029.48	52.66	115.495		
4,400.00	3,737.06	3,779.04	3,778.27	43.90	13.10	108.63	-5,346.53	1,712.12	6,107.08	6,053.00	54.08	112.919		
4,500.00	3,813.04	3,853.93	3,853.14	45.31	13.36	109.08	-5,345.83	1,711.04	6,132.64	6,077.14	55.50	110.490		
4,600.00	3,889.02	3,937.36	3,936.57	46.71	13.65	109.57	-5,345.09	1,711.43	6,158.77	6,101.82	56.95	108.150		
4,700.00	3,964.99	4,021.60	4,020.80	48.12	13.95	110.06	-5,344.18	1,711.88	6,185.31	6,126.92	58.38	105.948		
4,800.00	4,040.97	4,088.49	4,087.69	49.53	14.19	110.46	-5,343.47	1,711.84	6,212.44	6,152.70	59.74	103.992		
4,900.00	4,116.95	4,175.25	4,174.45	50.94	14.49	110.97	-5,342.53	1,711.35	6,240.15	6,178.98	61.16	102.024		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,192.93	4,289.61	4,288.78	52.35	14.90	111.64	-5,340.78	1,709.87	6,268.13	6,205.45	62.68	100.002		
5,100.00	4,268.90	4,445.80	4,444.88	53.76	15.46	112.56	-5,336.47	1,706.88	6,295.62	6,231.29	64.34	97.856		
5,200.00	4,344.88	4,525.20	4,524.24	55.16	15.74	113.02	-5,334.03	1,706.29	6,323.50	6,257.80	65.70	96.254		
5,300.00	4,420.86	4,673.99	4,672.93	56.57	16.27	113.86	-5,328.78	1,706.10	6,351.61	6,284.31	67.30	94.379		
5,400.00	4,496.84	4,791.48	4,790.29	57.98	16.69	114.52	-5,323.30	1,705.63	6,379.28	6,310.50	68.77	92.759		
5,500.00	4,572.81	4,850.48	4,849.22	59.39	16.90	114.85	-5,320.42	1,705.00	6,407.40	6,337.37	70.03	91.501		
5,600.00	4,648.79	4,900.00	4,898.69	60.81	17.08	115.13	-5,318.15	1,704.39	6,436.30	6,365.07	71.23	90.358		
5,700.00	4,724.77	4,955.83	4,954.46	62.22	17.28	115.45	-5,315.78	1,703.60	6,465.99	6,393.54	72.45	89.252		
5,800.00	4,800.74	5,000.00	4,998.59	63.63	17.43	115.69	-5,314.07	1,702.92	6,496.50	6,422.90	73.60	88.262		
5,900.00	4,876.72	5,032.55	5,031.12	65.04	17.55	115.88	-5,312.99	1,702.36	6,527.97	6,453.26	74.70	87.383		
6,000.00	4,952.70	5,061.21	5,059.77	66.45	17.65	116.04	-5,312.25	1,701.81	6,560.47	6,484.70	75.77	86.580		
6,100.00	5,028.68	5,100.00	5,098.54	67.86	17.79	116.25	-5,311.57	1,701.00	6,594.03	6,517.17	76.87	85.786		
6,200.00	5,104.65	5,141.61	5,140.14	69.27	17.94	116.48	-5,311.06	1,700.12	6,628.48	6,550.53	77.95	85.030		
6,300.00	5,180.63	5,207.57	5,206.08	70.69	18.18	116.85	-5,310.37	1,698.90	6,663.57	6,584.44	79.13	84.212		
6,400.00	5,256.61	5,276.80	5,275.31	72.10	18.42	117.22	-5,309.88	1,698.40	6,699.20	6,618.90	80.30	83.424		
6,500.00	5,332.59	5,368.43	5,366.94	73.51	18.74	117.70	-5,309.50	1,699.06	6,735.26	6,653.70	81.56	82.581		
6,600.00	5,408.56	5,449.88	5,448.38	74.92	19.02	118.12	-5,308.99	1,699.77	6,771.54	6,688.78	82.77	81.815		
6,700.00	5,484.54	5,529.41	5,527.91	76.34	19.30	118.53	-5,308.33	1,699.67	6,808.27	6,724.32	83.96	81.094		
6,800.00	5,560.52	5,614.30	5,612.79	77.75	19.60	118.98	-5,307.29	1,698.85	6,845.26	6,760.11	85.15	80.387		
6,900.00	5,636.50	5,664.40	5,662.87	79.16	19.78	119.24	-5,306.66	1,697.95	6,882.82	6,796.63	86.20	79.851		
7,000.00	5,712.47	5,732.51	5,730.96	80.57	20.03	119.60	-5,305.91	1,696.23	6,921.06	6,833.76	87.30	79.282		
7,100.00	5,788.45	5,823.75	5,822.16	81.99	20.35	120.08	-5,304.71	1,694.08	6,959.52	6,871.03	88.48	78.653		
7,200.00	5,864.43	5,880.21	5,878.61	83.40	20.55	120.37	-5,304.04	1,692.79	6,998.48	6,908.96	89.52	78.181		
7,300.00	5,940.40	5,977.31	5,975.68	84.81	20.90	120.87	-5,303.03	1,690.90	7,037.90	6,947.19	90.71	77.588		
7,400.00	6,016.38	6,184.69	6,183.02	86.23	21.64	121.90	-5,299.33	1,690.05	7,076.88	6,984.53	92.36	76.627		
7,500.00	6,092.36	6,241.96	6,240.28	87.64	21.84	122.18	-5,297.84	1,690.09	7,115.51	7,022.14	93.37	76.207		
7,600.00	6,168.34	6,300.00	6,298.30	89.05	22.05	122.46	-5,296.58	1,689.94	7,154.86	7,060.48	94.38	75.810		
7,700.00	6,244.31	6,419.98	6,418.24	90.47	22.48	123.04	-5,293.59	1,689.39	7,194.43	7,098.80	95.63	75.232		
7,800.00	6,320.29	6,493.58	6,491.82	91.88	22.74	123.39	-5,291.70	1,689.74	7,234.07	7,137.38	96.68	74.822		
7,900.00	6,396.27	6,542.74	6,540.96	93.30	22.91	123.62	-5,290.68	1,690.39	7,274.20	7,176.57	97.63	74.510		
8,000.00	6,472.25	6,600.00	6,598.21	94.71	23.11	123.88	-5,289.83	1,691.33	7,314.99	7,216.40	98.60	74.192		
8,100.00	6,548.22	6,724.57	6,722.73	96.12	23.54	124.44	-5,287.60	1,694.08	7,355.68	7,255.83	99.84	73.671		
8,200.00	6,624.20	6,758.90	6,757.05	97.54	23.66	124.59	-5,286.97	1,694.64	7,396.87	7,296.17	100.70	73.456		
8,300.00	6,700.18	6,800.00	6,798.14	98.95	23.80	124.78	-5,286.37	1,694.96	7,438.83	7,337.27	101.57	73.241		
8,400.00	6,776.16	6,850.85	6,848.99	100.37	23.98	125.01	-5,285.79	1,695.18	7,481.44	7,378.97	102.47	73.013		
8,500.00	6,852.13	6,940.90	6,939.02	101.78	24.30	125.41	-5,284.95	1,695.86	7,524.46	7,420.93	103.53	72.678		
8,600.00	6,928.11	7,052.09	7,050.20	103.20	24.69	125.90	-5,283.51	1,697.29	7,567.33	7,462.65	104.68	72.289		
8,700.00	7,004.09	7,128.19	7,126.28	104.61	24.95	126.23	-5,282.55	1,698.62	7,610.42	7,504.75	105.67	72.018		
8,800.00	7,080.06	7,197.43	7,195.51	106.02	25.19	126.53	-5,281.64	1,699.59	7,653.85	7,547.22	106.62	71.783		
8,900.00	7,156.04	7,248.06	7,246.14	107.44	25.37	126.74	-5,281.02	1,700.12	7,697.73	7,590.25	107.48	71.618		
9,000.00	7,232.02	7,300.00	7,298.07	108.85	25.55	126.97	-5,280.56	1,700.61	7,742.16	7,633.82	108.34	71.463		
9,104.68	7,311.55	7,376.47	7,374.53	110.33	25.82	127.29	-5,280.00	1,701.22	7,789.11	7,679.79	109.32	71.248		
9,150.00	7,346.29	7,410.88	7,408.94	110.97	25.94	121.49	-5,279.73	1,701.46	7,808.02	7,698.25	109.76	71.134		
9,200.00	7,385.15	7,448.43	7,446.49	111.65	26.07	114.94	-5,279.45	1,701.73	7,825.33	7,715.06	110.27	70.967		
9,250.00	7,424.29	7,486.28	7,484.34	112.31	26.20	108.37	-5,279.20	1,702.05	7,838.83	7,728.04	110.79	70.754		
9,300.00	7,463.40	7,525.34	7,523.39	112.93	26.34	101.97	-5,278.95	1,702.42	7,848.42	7,737.10	111.33	70.498		
9,350.00	7,502.19	7,564.78	7,562.83	113.51	26.48	95.91	-5,278.72	1,702.82	7,854.05	7,742.18	111.87	70.205		
9,400.00	7,540.36	7,603.61	7,601.66	114.04	26.61	90.35	-5,278.50	1,703.24	7,855.68	7,743.26	112.42	69.881		
9,450.00	7,577.62	7,623.63	7,621.68	114.53	26.68	85.31	-5,278.42	1,703.46	7,853.36	7,740.50	112.86	69.583		
9,500.00	7,613.70	7,644.55	7,642.59	114.95	26.75	80.94	-5,278.37	1,703.68	7,847.15	7,733.85	113.30	69.259		
9,550.00	7,648.30	7,664.65	7,662.69	115.32	26.82	77.26	-5,278.37	1,703.89	7,837.10	7,723.38	113.72	68.915		
9,600.00	7,681.18	7,683.80	7,681.84	115.63	26.89	74.25	-5,278.40	1,704.08	7,823.28	7,709.16	114.12	68.555		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,650.00	7,712.08	7,714.77	7,712.81	115.88	26.99	71.99	-5,278.51	1,704.39	7,805.79	7,691.24	114.55	68.145		
9,700.00	7,740.76	9,700.00	7,769.39	116.08	33.79	70.55	-5,278.46	1,705.16	7,784.46	7,662.79	121.67	63.980		
9,750.00	7,767.01	7,860.41	7,858.44	116.23	27.49	70.02	-5,278.17	1,706.59	7,759.68	7,643.95	115.73	67.052		
9,800.00	7,790.63	7,899.28	7,897.30	116.33	27.63	69.86	-5,277.92	1,707.38	7,731.58	7,615.46	116.12	66.583		
9,850.00	7,811.44	7,926.18	7,924.19	116.38	27.72	70.31	-5,277.72	1,707.95	7,700.44	7,584.01	116.43	66.137		
9,900.00	7,829.28	7,948.94	7,946.95	116.38	27.80	71.50	-5,277.54	1,708.44	7,666.50	7,549.80	116.70	65.694		
9,950.00	7,844.01	7,963.75	7,961.75	116.35	27.85	73.46	-5,277.41	1,708.76	7,630.02	7,513.11	116.91	65.266		
10,000.00	7,855.52	7,975.04	7,973.04	116.28	27.89	76.37	-5,277.32	1,709.00	7,591.26	7,474.19	117.07	64.842		
10,050.00	7,863.72	7,982.96	7,980.96	116.18	27.92	80.40	-5,277.25	1,709.17	7,550.50	7,433.30	117.21	64.421		
10,100.00	7,868.56	7,987.45	7,985.45	116.06	27.94	85.79	-5,277.21	1,709.26	7,508.04	7,390.73	117.30	64.004		
10,145.94	7,870.00	7,988.53	7,986.52	115.92	27.94	92.17	-5,277.20	1,709.29	7,467.78	7,350.41	117.37	63.626		
10,200.00	7,870.00	7,988.06	7,986.05	115.76	27.94	92.17	-5,277.20	1,709.28	7,419.84	7,302.40	117.43	63.184		
10,300.00	7,870.00	7,987.20	7,985.19	115.46	27.93	92.15	-5,277.21	1,709.26	7,331.38	7,213.83	117.55	62.368		
10,400.00	7,870.00	7,986.34	7,984.33	115.18	27.93	92.14	-5,277.22	1,709.24	7,243.23	7,125.56	117.67	61.554		
10,500.00	7,870.00	7,985.48	7,983.47	114.91	27.93	92.12	-5,277.23	1,709.22	7,155.39	7,037.58	117.80	60.742		
10,600.00	7,870.00	7,984.62	7,982.61	114.65	27.93	92.11	-5,277.23	1,709.20	7,067.87	6,949.93	117.93	59.931		
10,700.00	7,870.00	7,983.76	7,981.75	114.41	27.92	92.09	-5,277.24	1,709.18	6,980.68	6,862.61	118.07	59.122		
10,800.00	7,870.00	7,982.90	7,980.89	114.17	27.92	92.08	-5,277.25	1,709.17	6,893.85	6,775.63	118.22	58.315		
10,900.00	7,870.00	7,982.04	7,980.03	113.95	27.92	92.07	-5,277.26	1,709.15	6,807.37	6,689.00	118.37	57.511		
11,000.00	7,870.00	7,981.18	7,979.17	113.75	27.91	92.05	-5,277.26	1,709.13	6,721.27	6,602.75	118.52	56.708		
11,100.00	7,870.00	7,980.32	7,978.31	113.55	27.91	92.04	-5,277.27	1,709.11	6,635.56	6,516.87	118.69	55.909		
11,200.00	7,870.00	7,979.46	7,977.45	113.37	27.91	92.02	-5,277.28	1,709.09	6,550.25	6,431.40	118.86	55.111		
11,300.00	7,870.00	7,978.60	7,976.59	113.20	27.90	92.01	-5,277.29	1,709.07	6,465.37	6,346.34	119.03	54.316		
11,400.00	7,870.00	7,977.74	7,975.73	113.04	27.90	91.99	-5,277.29	1,709.06	6,380.92	6,261.71	119.22	53.524		
11,500.00	7,870.00	7,976.88	7,974.87	112.89	27.90	91.98	-5,277.30	1,709.04	6,296.93	6,177.53	119.41	52.735		
11,600.00	7,870.00	7,976.02	7,974.01	112.76	27.90	91.97	-5,277.31	1,709.02	6,213.42	6,093.81	119.60	51.950		
11,700.00	7,870.00	7,975.16	7,973.15	112.64	27.89	91.95	-5,277.31	1,709.00	6,130.39	6,010.58	119.81	51.167		
11,800.00	7,870.00	7,974.30	7,972.29	112.53	27.89	91.94	-5,277.32	1,708.98	6,047.88	5,927.86	120.03	50.388		
11,900.00	7,870.00	7,973.44	7,971.43	112.44	27.89	91.92	-5,277.33	1,708.96	5,965.91	5,845.66	120.25	49.613		
12,000.00	7,870.00	7,972.58	7,970.57	112.36	27.88	91.91	-5,277.34	1,708.95	5,884.49	5,764.01	120.48	48.842		
12,100.00	7,870.00	7,971.72	7,969.71	112.29	27.88	91.89	-5,277.34	1,708.93	5,803.65	5,682.93	120.72	48.074		
12,200.00	7,870.00	7,970.86	7,968.85	112.24	27.88	91.88	-5,277.35	1,708.91	5,723.42	5,602.45	120.97	47.311		
12,300.00	7,870.00	7,970.00	7,967.99	112.20	27.87	91.87	-5,277.36	1,708.89	5,643.82	5,522.59	121.23	46.553		
12,400.00	7,870.00	7,969.14	7,967.13	112.17	27.87	91.85	-5,277.37	1,708.87	5,564.88	5,443.37	121.50	45.800		
12,500.00	7,870.00	7,968.28	7,966.27	112.16	27.87	91.84	-5,277.37	1,708.85	5,486.62	5,364.84	121.79	45.052		
12,600.00	7,870.00	7,967.42	7,965.41	112.17	27.87	91.82	-5,277.38	1,708.83	5,409.08	5,287.01	122.08	44.309		
12,700.00	7,870.00	7,966.56	7,964.55	112.19	27.86	91.81	-5,277.39	1,708.82	5,332.29	5,209.91	122.38	43.572		
12,800.00	7,870.00	7,965.70	7,963.69	112.23	27.86	91.79	-5,277.40	1,708.80	5,256.28	5,133.59	122.69	42.841		
12,900.00	7,870.00	7,964.84	7,962.83	112.28	27.86	91.78	-5,277.40	1,708.78	5,181.09	5,058.07	123.02	42.117		
13,000.00	7,870.00	7,963.98	7,961.97	112.36	27.85	91.77	-5,277.41	1,708.76	5,106.74	4,983.39	123.35	41.399		
13,100.00	7,870.00	7,963.11	7,961.11	112.45	27.85	91.75	-5,277.42	1,708.74	5,033.29	4,909.58	123.70	40.689		
13,200.00	7,870.00	7,962.25	7,960.25	112.56	27.85	91.74	-5,277.42	1,708.72	4,960.76	4,836.69	124.06	39.986		
13,300.00	7,870.00	7,961.39	7,959.39	112.68	27.84	91.72	-5,277.43	1,708.71	4,889.20	4,764.76	124.44	39.291		
13,400.00	7,870.00	7,960.53	7,958.53	112.83	27.84	91.71	-5,277.44	1,708.69	4,818.65	4,693.83	124.82	38.604		
13,500.00	7,870.00	7,959.67	7,957.67	113.00	27.84	91.69	-5,277.45	1,708.67	4,749.16	4,623.95	125.22	37.927		
13,600.00	7,870.00	7,958.81	7,956.81	113.19	27.84	91.68	-5,277.45	1,708.65	4,680.78	4,555.15	125.63	37.258		
13,700.00	7,870.00	7,957.95	7,955.95	113.40	27.83	91.67	-5,277.46	1,708.63	4,613.55	4,487.50	126.05	36.600		
13,800.00	7,870.00	7,957.09	7,955.09	113.63	27.83	91.66	-5,277.46	1,708.63	4,547.53	4,421.03	126.49	35.951		
13,900.00	7,870.00	7,956.23	7,954.23	113.89	27.83	91.65	-5,277.47	1,708.61	4,482.76	4,355.82	126.94	35.314		
14,000.00	7,870.00	7,955.37	7,953.37	114.18	27.83	91.63	-5,277.48	1,708.59	4,419.31	4,291.91	127.40	34.689		
14,100.00	7,870.00	7,954.51	7,952.51	114.48	27.82	91.61	-5,277.49	1,708.57	4,357.23	4,229.36	127.87	34.076		
14,200.00	7,870.00	7,953.65	7,951.65	114.82	27.82	91.60	-5,277.50	1,708.55	4,296.57	4,168.23	128.35	33.476		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,300.00	7,870.00	7,953.03	7,951.03	115.18	27.82	91.58	-5,277.50	1,708.53	4,237.41	4,108.57	128.84	32.889		
14,400.00	7,870.00	7,952.09	7,950.09	115.57	27.81	91.57	-5,277.51	1,708.51	4,179.81	4,050.47	129.34	32.316		
14,500.00	7,870.00	7,951.15	7,949.16	115.99	27.81	91.55	-5,277.52	1,708.49	4,123.83	3,993.98	129.85	31.758		
14,600.00	7,870.00	7,950.23	7,948.23	116.44	27.81	91.54	-5,277.53	1,708.47	4,069.53	3,939.16	130.37	31.216		
14,700.00	7,870.00	7,949.31	7,947.31	116.92	27.80	91.52	-5,277.54	1,708.45	4,016.99	3,886.10	130.89	30.689		
14,800.00	7,870.00	7,948.39	7,946.40	117.44	27.80	91.51	-5,277.54	1,708.43	3,966.27	3,834.85	131.42	30.180		
14,900.00	7,870.00	7,947.48	7,945.49	117.98	27.80	91.49	-5,277.55	1,708.41	3,917.46	3,785.50	131.95	29.688		
15,000.00	7,870.00	7,946.58	7,944.59	118.56	27.79	91.48	-5,277.56	1,708.39	3,870.60	3,738.12	132.49	29.215		
15,100.00	7,870.00	7,945.69	7,943.69	119.17	27.79	91.46	-5,277.57	1,708.37	3,825.79	3,692.77	133.02	28.760		
15,200.00	7,870.00	7,944.80	7,942.80	119.81	27.79	91.45	-5,277.57	1,708.35	3,783.10	3,649.54	133.56	28.326		
15,300.00	7,870.00	7,943.91	7,941.92	120.48	27.78	91.43	-5,277.58	1,708.33	3,742.58	3,608.50	134.09	27.912		
15,400.00	7,870.00	7,943.04	7,941.04	121.19	27.78	91.42	-5,277.59	1,708.31	3,704.33	3,569.72	134.61	27.519		
15,500.00	7,870.00	7,942.16	7,940.17	121.93	27.78	91.40	-5,277.60	1,708.29	3,668.40	3,533.28	135.12	27.148		
15,600.00	7,870.00	7,941.30	7,939.30	122.71	27.78	91.39	-5,277.60	1,708.28	3,634.87	3,499.24	135.63	26.801		
15,700.00	7,870.00	7,940.44	7,938.44	123.52	27.77	91.37	-5,277.61	1,708.26	3,603.80	3,467.69	136.12	26.476		
15,800.00	7,870.00	7,939.58	7,937.59	124.36	27.77	91.36	-5,277.62	1,708.24	3,575.26	3,438.68	136.59	26.175		
15,900.00	7,870.00	7,938.73	7,936.74	125.23	27.77	91.34	-5,277.62	1,708.22	3,549.31	3,412.27	137.04	25.899		
16,000.00	7,870.00	7,937.89	7,935.90	126.14	27.76	91.33	-5,277.63	1,708.20	3,526.01	3,388.53	137.47	25.648		
16,100.00	7,870.00	7,937.05	7,935.06	127.07	27.76	91.32	-5,277.64	1,708.19	3,505.40	3,367.52	137.88	25.423		
16,200.00	7,870.00	7,936.22	7,934.23	128.04	27.76	91.30	-5,277.64	1,708.17	3,487.54	3,349.28	138.26	25.224		
16,300.00	7,870.00	7,935.39	7,933.40	129.04	27.75	91.29	-5,277.65	1,708.15	3,472.47	3,333.86	138.61	25.052		
16,400.00	7,870.00	7,934.57	7,932.58	130.06	27.75	91.28	-5,277.66	1,708.13	3,460.23	3,321.29	138.93	24.906		
16,500.00	7,870.00	7,933.76	7,931.76	131.11	27.75	91.26	-5,277.66	1,708.11	3,450.83	3,311.62	139.22	24.787		
16,600.00	7,870.00	7,932.94	7,930.95	132.19	27.75	91.25	-5,277.67	1,708.10	3,444.32	3,304.85	139.47	24.696		
16,700.00	7,870.00	7,932.14	7,930.15	133.29	27.74	91.24	-5,277.68	1,708.08	3,440.71	3,301.02	139.68	24.632		
16,774.51	7,870.00	7,931.54	7,929.55	134.13	27.74	91.23	-5,277.68	1,708.07	3,439.90	3,300.08	139.82	24.603 CC, ES		
16,800.00	7,870.00	7,931.34	7,929.35	134.42	27.74	91.22	-5,277.68	1,708.06	3,439.99	3,300.13	139.86	24.596		
16,900.00	7,870.00	7,930.54	7,928.55	135.57	27.74	91.21	-5,277.69	1,708.05	3,442.19	3,302.19	140.00	24.587 SF		
17,000.00	7,870.00	7,929.75	7,927.76	136.75	27.74	91.20	-5,277.70	1,708.03	3,447.28	3,307.18	140.10	24.606		
17,100.00	7,870.00	7,928.97	7,926.97	137.94	27.73	91.18	-5,277.70	1,708.01	3,455.26	3,315.10	140.16	24.652		
17,200.00	7,870.00	7,928.19	7,926.19	139.16	27.73	91.17	-5,277.71	1,708.00	3,466.11	3,325.93	140.18	24.726		
17,300.00	7,870.00	7,927.41	7,925.42	140.39	27.73	91.16	-5,277.71	1,707.98	3,479.80	3,339.64	140.17	24.826		
17,400.00	7,870.00	7,926.64	7,924.65	141.65	27.72	91.14	-5,277.72	1,707.96	3,496.30	3,356.18	140.12	24.953		
17,500.00	7,870.00	7,925.87	7,923.88	142.92	27.72	91.13	-5,277.73	1,707.95	3,515.57	3,375.54	140.03	25.106		
17,600.00	7,870.00	7,925.11	7,923.12	144.21	27.72	91.12	-5,277.73	1,707.93	3,537.56	3,397.65	139.91	25.284		
17,700.00	7,870.00	7,924.36	7,922.37	145.52	27.72	91.11	-5,277.74	1,707.91	3,562.22	3,422.46	139.76	25.488		
17,800.00	7,870.00	7,923.60	7,921.61	146.84	27.71	91.09	-5,277.74	1,707.90	3,589.49	3,449.92	139.58	25.717		
17,900.00	7,870.00	7,922.86	7,920.87	148.18	27.71	91.08	-5,277.75	1,707.88	3,619.33	3,479.96	139.37	25.970		
18,000.00	7,870.00	7,922.12	7,920.12	149.54	27.71	91.07	-5,277.75	1,707.87	3,651.66	3,512.53	139.13	26.246		
18,100.00	7,870.00	7,921.38	7,919.39	150.90	27.71	91.06	-5,277.76	1,707.85	3,686.42	3,547.55	138.87	26.545		
18,200.00	7,870.00	7,920.64	7,918.65	152.28	27.70	91.04	-5,277.77	1,707.83	3,723.55	3,584.96	138.59	26.867		
18,300.00	7,870.00	7,919.92	7,917.93	153.67	27.70	91.03	-5,277.77	1,707.82	3,762.96	3,624.67	138.29	27.210		
18,400.00	7,870.00	7,919.19	7,917.20	155.07	27.70	91.02	-5,277.78	1,707.80	3,804.60	3,666.62	137.98	27.574		
18,500.00	7,870.00	7,918.47	7,916.48	156.49	27.70	91.01	-5,277.78	1,707.79	3,848.38	3,710.73	137.65	27.958		
18,600.00	7,870.00	7,917.76	7,915.77	157.91	27.69	91.00	-5,277.79	1,707.77	3,894.24	3,756.94	137.31	28.362		
18,700.00	7,870.00	7,917.04	7,915.05	159.35	27.69	90.98	-5,277.79	1,707.76	3,942.11	3,805.15	136.95	28.784		
18,800.00	7,870.00	7,916.34	7,914.35	160.79	27.69	90.97	-5,277.80	1,707.74	3,991.90	3,855.31	136.59	29.225		
18,900.00	7,870.00	7,915.63	7,913.65	162.25	27.69	90.96	-5,277.80	1,707.73	4,043.56	3,907.33	136.23	29.682		
19,000.00	7,870.00	7,914.91	7,912.92	163.71	27.70	90.95	-5,277.78	1,707.79	4,096.99	3,961.11	135.88	30.151		
19,100.00	7,870.00	7,914.25	7,912.26	165.18	27.69	90.99	-5,277.79	1,707.77	4,152.16	4,016.66	135.51	30.642		
19,200.00	7,870.00	7,913.60	7,911.61	166.66	27.69	90.98	-5,277.80	1,707.75	4,208.98	4,073.85	135.13	31.148		
19,300.00	7,870.00	7,912.96	7,910.97	168.15	27.69	90.96	-5,277.80	1,707.74	4,267.39	4,132.64	134.75	31.669		

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

Offset Design SEC 26-T1N-R68W - EXIST VERT ALAUX 26-5 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 100-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,870.00	7,914.92	7,912.93	169.65	27.68	90.95	-5,277.81	1,707.72	4,327.32	4,192.94	134.38	32.203	
19,500.00	7,870.00	7,914.08	7,912.09	171.15	27.68	90.93	-5,277.82	1,707.70	4,388.71	4,254.70	134.00	32.751	
19,600.00	7,870.00	7,913.25	7,911.26	172.66	27.68	90.92	-5,277.82	1,707.68	4,451.50	4,317.87	133.63	33.312	
19,700.00	7,870.00	7,912.43	7,910.44	174.18	27.67	90.91	-5,277.83	1,707.66	4,515.63	4,382.36	133.26	33.885	
19,800.00	7,870.00	7,911.61	7,909.62	175.70	27.67	90.89	-5,277.83	1,707.64	4,581.04	4,448.14	132.90	34.470	
19,889.26	7,870.00	7,910.88	7,908.89	177.06	27.67	90.88	-5,277.84	1,707.63	4,640.47	4,507.89	132.58	35.001	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	134.81	-5,617.41	5,653.97	7,970.16					
100.00	100.00	73.00	73.00	0.13	0.56	134.81	-5,617.41	5,653.97	7,970.11	7,969.42	0.70	N/A		
200.00	200.00	173.00	173.00	0.49	2.04	134.81	-5,617.41	5,653.97	7,970.11	7,967.58	2.53	3,144.110		
300.00	300.00	273.00	273.00	0.85	3.79	134.81	-5,617.41	5,653.97	7,970.11	7,965.47	4.64	1,718.165		
400.00	399.98	372.98	372.98	1.21	5.53	66.69	-5,617.41	5,653.97	7,969.42	7,962.68	6.74	1,182.805		
500.00	499.84	472.84	472.84	1.56	7.28	66.77	-5,617.41	5,653.97	7,967.35	7,958.52	8.84	901.650		
600.00	599.45	572.45	572.45	1.93	9.01	66.89	-5,617.41	5,653.97	7,963.91	7,952.97	10.94	727.907		
700.00	698.70	671.70	671.70	2.32	10.75	67.05	-5,617.41	5,653.97	7,959.11	7,946.06	13.05	609.745		
800.00	797.47	770.47	770.47	2.72	12.47	67.27	-5,617.41	5,653.97	7,952.98	7,937.80	15.18	524.030		
900.00	895.62	868.62	868.62	3.16	14.18	67.53	-5,617.41	5,653.97	7,945.53	7,928.21	17.31	458.899		
1,000.00	993.06	966.06	966.06	3.63	15.88	67.84	-5,617.41	5,653.97	7,936.80	7,917.33	19.47	407.647		
1,100.00	1,089.64	1,062.64	1,062.64	4.14	17.57	68.20	-5,617.41	5,653.97	7,926.82	7,905.17	21.65	366.199		
1,200.00	1,185.27	1,158.27	1,158.27	4.70	19.24	68.60	-5,617.41	5,653.97	7,915.63	7,891.78	23.85	331.941		
1,300.00	1,279.82	1,252.82	1,252.82	5.31	20.89	69.04	-5,617.41	5,653.97	7,903.28	7,877.21	26.07	303.116		
1,400.00	1,373.17	1,346.17	1,346.17	5.97	22.52	69.52	-5,617.41	5,653.97	7,889.82	7,861.49	28.33	278.501		
1,500.00	1,465.21	1,438.21	1,438.21	6.69	24.12	70.04	-5,617.41	5,653.97	7,875.31	7,844.69	30.62	257.221		
1,600.00	1,555.84	1,528.84	1,528.84	7.47	25.71	70.61	-5,617.41	5,653.97	7,859.80	7,826.86	32.94	238.629		
1,700.00	1,644.94	1,617.94	1,617.94	8.31	27.26	71.20	-5,617.41	5,653.97	7,843.35	7,808.06	35.29	222.240		
1,800.00	1,732.39	1,705.39	1,705.39	9.23	28.79	71.83	-5,617.41	5,653.97	7,826.05	7,788.36	37.68	207.681		
1,900.00	1,818.11	1,808.89	1,791.11	10.21	30.59	72.50	-5,617.41	5,653.97	7,807.95	7,767.53	40.42	193.165		
2,000.00	1,901.97	1,874.97	1,874.97	11.26	31.75	73.19	-5,617.41	5,653.97	7,789.13	7,746.56	42.58	182.947		
2,100.00	1,983.88	1,956.88	1,956.88	12.38	33.18	73.91	-5,617.41	5,653.97	7,769.68	7,724.61	45.08	172.358		
2,200.00	2,063.74	2,036.74	2,036.74	13.57	34.57	74.65	-5,617.41	5,653.97	7,749.68	7,702.06	47.62	162.742		
2,300.00	2,141.45	2,114.45	2,114.45	14.84	35.93	75.41	-5,617.41	5,653.97	7,729.21	7,679.01	50.20	153.975		
2,327.78	2,162.65	2,135.65	2,135.65	15.21	36.30	75.63	-5,617.41	5,653.97	7,723.45	7,672.53	50.92	151.678		
2,400.00	2,217.51	2,209.49	2,190.51	16.17	37.59	75.89	-5,617.41	5,653.97	7,708.57	7,655.43	53.14	145.066		
2,500.00	2,293.49	2,266.49	2,266.49	17.51	38.58	76.25	-5,617.41	5,653.97	7,688.40	7,632.96	55.44	138.682		
2,600.00	2,369.47	2,342.47	2,342.47	18.86	39.91	76.62	-5,617.41	5,653.97	7,668.72	7,610.63	58.09	132.019		
2,700.00	2,445.45	2,418.45	2,418.45	20.22	41.23	76.99	-5,617.41	5,653.97	7,649.54	7,588.79	60.75	125.916		
2,800.00	2,521.42	2,505.58	2,494.42	21.59	42.75	77.35	-5,617.41	5,653.97	7,630.87	7,567.25	63.62	119.942		
2,900.00	2,597.40	2,570.40	2,570.40	22.97	43.88	77.72	-5,617.41	5,653.97	7,612.71	7,546.60	66.11	115.145		
3,000.00	2,673.38	2,646.38	2,646.38	24.34	45.21	78.09	-5,617.41	5,653.97	7,595.07	7,526.26	68.81	110.376		
3,100.00	2,749.36	2,722.36	2,722.36	25.73	46.54	78.46	-5,617.41	5,653.97	7,577.94	7,506.42	71.52	105.960		
3,200.00	2,825.33	2,801.67	2,798.33	27.11	47.92	78.83	-5,617.41	5,653.97	7,561.33	7,487.04	74.29	101.783		
3,300.00	2,901.31	2,874.31	2,874.31	28.50	49.19	79.21	-5,617.41	5,653.97	7,545.24	7,468.29	76.95	98.052		
3,400.00	2,977.29	2,950.29	2,950.29	29.90	50.51	79.58	-5,617.41	5,653.97	7,529.68	7,450.00	79.68	94.500		
3,500.00	3,053.27	3,026.27	3,026.27	31.29	51.84	79.96	-5,617.41	5,653.97	7,514.65	7,432.24	82.41	91.183		
3,600.00	3,129.24	3,102.24	3,102.24	32.69	53.17	80.33	-5,617.41	5,653.97	7,500.16	7,415.01	85.15	88.080		
3,700.00	3,205.22	3,178.22	3,178.22	34.08	54.49	80.71	-5,617.41	5,653.97	7,486.20	7,398.30	87.90	85.171		
3,800.00	3,281.20	3,254.20	3,254.20	35.48	55.82	81.08	-5,617.41	5,653.97	7,472.78	7,382.14	90.64	82.441		
3,900.00	3,357.18	3,330.18	3,330.18	36.88	57.15	81.46	-5,617.41	5,653.97	7,459.91	7,366.51	93.40	79.873		
4,000.00	3,433.15	3,406.15	3,406.15	38.29	58.47	81.84	-5,617.41	5,653.97	7,447.58	7,351.42	96.15	77.456		
4,100.00	3,509.13	3,482.13	3,482.13	39.69	59.80	82.22	-5,617.41	5,653.97	7,435.79	7,336.88	98.91	75.176		
4,200.00	3,585.11	3,558.11	3,558.11	41.09	61.12	82.60	-5,617.41	5,653.97	7,424.56	7,322.89	101.67	73.024		
4,300.00	3,661.08	3,634.08	3,634.08	42.50	62.45	82.98	-5,617.41	5,653.97	7,413.88	7,309.44	104.44	70.989		
4,400.00	3,737.06	3,710.06	3,710.06	43.90	63.78	83.36	-5,617.41	5,653.97	7,403.76	7,296.56	107.20	69.062		
4,500.00	3,813.04	3,786.04	3,786.04	45.31	65.10	83.74	-5,617.41	5,653.97	7,394.19	7,284.22	109.97	67.237		
4,600.00	3,889.02	3,862.02	3,862.02	46.71	66.43	84.13	-5,617.41	5,653.97	7,385.19	7,272.45	112.74	65.506		
4,700.00	3,964.99	3,937.99	3,937.99	48.12	67.75	84.51	-5,617.41	5,653.97	7,376.75	7,261.24	115.51	63.862		
4,800.00	4,040.97	4,013.97	4,013.97	49.53	69.08	84.89	-5,617.41	5,653.97	7,368.87	7,250.59	118.28	62.300		
4,900.00	4,116.95	4,089.95	4,089.95	50.94	70.41	85.28	-5,617.41	5,653.97	7,361.55	7,240.50	121.05	60.814		
5,000.00	4,192.93	4,165.93	4,165.93	52.35	71.73	85.66	-5,617.41	5,653.97	7,354.81	7,230.99	123.82	59.399		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,268.90	4,241.90	4,241.90	53.76	73.06	86.05	-5,617.41	5,653.97	7,348.63	7,222.04	126.59	58.051		
5,200.00	4,344.88	4,317.88	4,317.88	55.16	74.38	86.43	-5,617.41	5,653.97	7,343.02	7,213.67	129.36	56.765		
5,300.00	4,420.86	4,406.14	4,393.86	56.57	75.92	86.82	-5,617.41	5,653.97	7,337.99	7,205.65	132.34	55.448		
5,400.00	4,496.84	4,469.84	4,469.84	57.98	77.04	87.20	-5,617.41	5,653.97	7,333.53	7,198.64	134.89	54.366		
5,500.00	4,572.81	4,545.81	4,545.81	59.39	78.36	87.59	-5,617.41	5,653.97	7,329.64	7,191.99	137.66	53.246		
5,600.00	4,648.79	4,621.79	4,621.79	60.81	79.69	87.97	-5,617.41	5,653.97	7,326.33	7,185.91	140.42	52.176		
5,700.00	4,724.77	4,702.23	4,697.77	62.22	81.09	88.36	-5,617.41	5,653.97	7,323.59	7,180.34	143.25	51.123		
5,800.00	4,800.74	4,773.74	4,773.74	63.63	82.34	88.75	-5,617.41	5,653.97	7,321.43	7,175.50	145.93	50.170		
5,900.00	4,876.72	4,849.72	4,849.72	65.04	83.67	89.13	-5,617.41	5,653.97	7,319.85	7,171.17	148.68	49.231		
6,000.00	4,952.70	4,925.70	4,925.70	66.45	84.99	89.52	-5,617.41	5,653.97	7,318.85	7,167.41	151.43	48.331		
6,100.00	5,028.68	5,001.68	5,001.68	67.86	86.32	89.91	-5,617.41	5,653.97	7,318.42	7,164.24	154.18	47.468		
6,124.13	5,047.01	5,020.01	5,020.01	68.20	86.64	90.00	-5,617.41	5,653.97	7,318.40	7,163.56	154.84	47.265		
6,200.00	5,104.65	5,077.65	5,077.65	69.27	87.64	90.29	-5,617.41	5,653.97	7,318.57	7,161.65	156.92	46.639		
6,300.00	5,180.63	5,153.63	5,153.63	70.69	88.97	90.68	-5,617.41	5,653.97	7,319.29	7,159.64	159.65	45.845		
6,400.00	5,256.61	5,229.61	5,229.61	72.10	90.30	91.07	-5,617.41	5,653.97	7,320.60	7,158.21	162.39	45.082		
6,500.00	5,332.59	5,305.59	5,305.59	73.51	91.62	91.45	-5,617.41	5,653.97	7,322.48	7,157.37	165.11	44.349		
6,600.00	5,408.56	5,381.56	5,381.56	74.92	92.95	91.84	-5,617.41	5,653.97	7,324.94	7,157.11	167.83	43.645		
6,700.00	5,484.54	5,457.54	5,457.54	76.34	94.27	92.23	-5,617.41	5,653.97	7,327.97	7,157.43	170.55	42.968		
6,800.00	5,560.52	5,533.52	5,533.52	77.75	95.60	92.61	-5,617.41	5,653.97	7,331.58	7,158.33	173.26	42.317		
6,900.00	5,636.50	5,609.50	5,609.50	79.16	96.93	93.00	-5,617.41	5,653.97	7,335.77	7,159.81	175.96	41.691		
7,000.00	5,712.47	5,685.47	5,685.47	80.57	98.25	93.38	-5,617.41	5,653.97	7,340.52	7,161.87	178.65	41.088		
7,100.00	5,788.45	5,761.45	5,761.45	81.99	99.58	93.77	-5,617.41	5,653.97	7,345.85	7,164.51	181.34	40.508		
7,200.00	5,864.43	5,837.43	5,837.43	83.40	100.90	94.15	-5,617.41	5,653.97	7,351.76	7,167.73	184.02	39.950		
7,300.00	5,940.40	5,913.40	5,913.40	84.81	102.23	94.54	-5,617.41	5,653.97	7,358.23	7,171.53	186.70	39.412		
7,400.00	6,016.38	5,989.38	5,989.38	86.23	103.56	94.92	-5,617.41	5,653.97	7,365.27	7,175.90	189.36	38.895		
7,500.00	6,092.36	6,065.36	6,065.36	87.64	104.88	95.31	-5,617.41	5,653.97	7,372.87	7,180.85	192.02	38.396		
7,600.00	6,168.34	6,141.34	6,141.34	89.05	106.21	95.69	-5,617.41	5,653.97	7,381.04	7,186.37	194.67	37.915		
7,700.00	6,244.31	6,217.31	6,217.31	90.47	107.54	96.07	-5,617.41	5,653.97	7,389.78	7,192.46	197.32	37.451		
7,800.00	6,320.29	6,306.71	6,293.29	91.88	109.10	96.45	-5,617.41	5,653.97	7,399.07	7,198.89	200.18	36.961		
7,900.00	6,396.27	6,369.27	6,369.27	93.30	110.19	96.84	-5,617.41	5,653.97	7,408.93	7,206.35	202.57	36.574		
8,000.00	6,472.25	6,445.25	6,445.25	94.71	111.51	97.22	-5,617.41	5,653.97	7,419.34	7,214.15	205.19	36.158		
8,100.00	6,548.22	6,521.22	6,521.22	96.12	112.84	97.60	-5,617.41	5,653.97	7,430.30	7,222.50	207.80	35.757		
8,200.00	6,624.20	6,602.80	6,597.20	97.54	114.26	97.98	-5,617.41	5,653.97	7,441.82	7,231.33	210.49	35.354		
8,300.00	6,700.18	6,673.18	6,673.18	98.95	115.49	98.36	-5,617.41	5,653.97	7,453.89	7,240.90	212.98	34.997		
8,400.00	6,776.16	6,749.16	6,749.16	100.37	116.82	98.73	-5,617.41	5,653.97	7,466.50	7,250.94	215.56	34.637		
8,500.00	6,852.13	6,825.13	6,825.13	101.78	118.14	99.11	-5,617.41	5,653.97	7,479.66	7,261.53	218.13	34.290		
8,600.00	6,928.11	6,901.11	6,901.11	103.20	119.47	99.49	-5,617.41	5,653.97	7,493.36	7,272.67	220.69	33.954		
8,700.00	7,004.09	6,977.09	6,977.09	104.61	120.80	99.86	-5,617.41	5,653.97	7,507.59	7,284.35	223.24	33.631		
8,800.00	7,080.06	7,053.06	7,053.06	106.02	122.12	100.24	-5,617.41	5,653.97	7,522.36	7,296.59	225.78	33.318		
8,900.00	7,156.04	7,129.04	7,129.04	107.44	123.45	100.61	-5,617.41	5,653.97	7,537.67	7,309.36	228.30	33.016		
9,000.00	7,232.02	7,205.02	7,205.02	108.85	124.77	100.99	-5,617.41	5,653.97	7,553.50	7,322.68	230.82	32.725		
9,104.68	7,311.55	7,284.55	7,284.55	110.33	126.16	101.38	-5,617.41	5,653.97	7,570.63	7,337.19	233.44	32.430		
9,150.00	7,346.29	7,319.29	7,319.29	110.97	126.77	96.37	-5,617.41	5,653.97	7,576.47	7,341.88	234.58	32.297		
9,200.00	7,385.15	7,358.15	7,358.15	111.65	127.45	90.47	-5,617.41	5,653.97	7,578.90	7,343.05	235.85	32.134		
9,250.00	7,424.29	7,402.71	7,397.29	112.31	128.22	84.36	-5,617.41	5,653.97	7,577.12	7,339.91	237.21	31.942		
9,300.00	7,463.40	7,436.40	7,436.40	112.93	128.81	78.23	-5,617.41	5,653.97	7,571.14	7,332.77	238.37	31.762		
9,350.00	7,502.19	7,475.19	7,475.19	113.51	129.49	72.27	-5,617.41	5,653.97	7,560.99	7,321.39	239.60	31.557		
9,400.00	7,540.36	7,513.36	7,513.36	114.04	130.16	66.64	-5,617.41	5,653.97	7,546.74	7,305.95	240.79	31.341		
9,450.00	7,577.62	7,550.62	7,550.62	114.53	130.81	61.44	-5,617.41	5,653.97	7,528.49	7,286.56	241.93	31.118		
9,500.00	7,613.70	7,586.70	7,586.70	114.95	131.44	56.74	-5,617.41	5,653.97	7,506.37	7,263.35	243.02	30.888		
9,550.00	7,648.30	7,621.30	7,621.30	115.32	132.04	52.53	-5,617.41	5,653.97	7,480.52	7,236.48	244.04	30.653		
9,600.00	7,681.18	7,654.18	7,654.18	115.63	132.61	48.79	-5,617.41	5,653.97	7,451.13	7,206.14	244.99	30.414		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,650.00	7,712.08	7,685.08	7,685.08	115.88	133.15	45.47	-5,617.41	5,653.97	7,418.41	7,172.55	245.86	30.173		
9,700.00	7,740.76	7,713.76	7,713.76	116.08	133.65	42.50	-5,617.41	5,653.97	7,382.59	7,135.94	246.66	29.931		
9,750.00	7,767.01	7,740.01	7,740.01	116.23	134.11	39.81	-5,617.41	5,653.97	7,343.93	7,096.57	247.36	29.689		
9,800.00	7,790.63	7,763.63	7,763.63	116.33	134.52	37.30	-5,617.41	5,653.97	7,302.70	7,054.72	247.98	29.449		
9,850.00	7,811.44	7,784.44	7,784.44	116.38	134.89	34.82	-5,617.41	5,653.97	7,259.21	7,010.70	248.50	29.212		
9,900.00	7,829.28	7,802.28	7,802.28	116.38	135.20	32.15	-5,617.41	5,653.97	7,213.77	6,964.82	248.94	28.978		
9,950.00	7,844.01	7,817.01	7,817.01	116.35	135.46	28.88	-5,617.41	5,653.97	7,166.71	6,917.42	249.29	28.749		
10,000.00	7,855.52	7,828.52	7,828.52	116.28	135.66	23.93	-5,617.41	5,653.97	7,118.39	6,868.85	249.54	28.526		
10,050.00	7,863.72	7,836.72	7,836.72	116.18	135.80	13.79	-5,617.41	5,653.97	7,069.18	6,819.46	249.71	28.309		
10,100.00	7,868.56	7,841.56	7,841.56	116.06	135.88	-19.88	-5,617.41	5,653.97	7,019.43	6,769.63	249.80	28.100		
10,145.94	7,870.00	7,843.00	7,843.00	115.92	135.91	-90.00	-5,617.41	5,653.97	6,973.57	6,723.77	249.80	27.916		
10,200.00	7,870.00	7,843.00	7,843.00	115.76	135.91	-90.00	-5,617.41	5,653.97	6,919.66	6,669.89	249.77	27.704		
10,300.00	7,870.00	7,843.00	7,843.00	115.46	135.91	-90.00	-5,617.41	5,653.97	6,819.93	6,570.23	249.70	27.312		
10,400.00	7,870.00	7,843.00	7,843.00	115.18	135.91	-90.00	-5,617.41	5,653.97	6,720.21	6,470.58	249.63	26.920		
10,500.00	7,870.00	7,843.00	7,843.00	114.91	135.91	-90.00	-5,617.41	5,653.97	6,620.50	6,370.94	249.56	26.528		
10,600.00	7,870.00	7,843.00	7,843.00	114.65	135.91	-90.00	-5,617.41	5,653.97	6,520.80	6,271.31	249.49	26.137		
10,700.00	7,870.00	7,843.00	7,843.00	114.41	135.91	-90.00	-5,617.41	5,653.97	6,421.11	6,171.70	249.42	25.745		
10,800.00	7,870.00	7,843.00	7,843.00	114.17	135.91	-90.00	-5,617.41	5,653.97	6,321.43	6,072.09	249.34	25.353		
10,900.00	7,870.00	7,843.00	7,843.00	113.95	135.91	-90.00	-5,617.41	5,653.97	6,221.76	5,972.50	249.26	24.961		
11,000.00	7,870.00	7,843.00	7,843.00	113.75	135.91	-90.00	-5,617.41	5,653.97	6,122.10	5,872.92	249.18	24.569		
11,100.00	7,870.00	7,843.00	7,843.00	113.55	135.91	-90.00	-5,617.41	5,653.97	6,022.45	5,773.35	249.10	24.177		
11,200.00	7,870.00	7,843.00	7,843.00	113.37	135.91	-90.00	-5,617.41	5,653.97	5,922.81	5,673.80	249.01	23.785		
11,300.00	7,870.00	7,843.00	7,843.00	113.20	135.91	-90.00	-5,617.41	5,653.97	5,823.19	5,574.26	248.93	23.393		
11,400.00	7,870.00	7,843.00	7,843.00	113.04	135.91	-90.00	-5,617.41	5,653.97	5,723.57	5,474.74	248.83	23.002		
11,500.00	7,870.00	7,843.00	7,843.00	112.89	135.91	-90.00	-5,617.41	5,653.97	5,623.97	5,375.23	248.74	22.610		
11,600.00	7,870.00	7,843.00	7,843.00	112.76	135.91	-90.00	-5,617.41	5,653.97	5,524.39	5,275.75	248.64	22.218		
11,700.00	7,870.00	7,843.00	7,843.00	112.64	135.91	-90.00	-5,617.41	5,653.97	5,424.82	5,176.28	248.54	21.827		
11,800.00	7,870.00	7,843.00	7,843.00	112.53	135.91	-90.00	-5,617.41	5,653.97	5,325.27	5,076.83	248.44	21.435		
11,900.00	7,870.00	7,843.00	7,843.00	112.44	135.91	-90.00	-5,617.41	5,653.97	5,225.73	4,977.40	248.33	21.043		
12,000.00	7,870.00	7,843.00	7,843.00	112.36	135.91	-90.00	-5,617.41	5,653.97	5,126.22	4,878.00	248.22	20.652		
12,100.00	7,870.00	7,843.00	7,843.00	112.29	135.91	-90.00	-5,617.41	5,653.97	5,026.72	4,778.62	248.10	20.261		
12,200.00	7,870.00	7,843.00	7,843.00	112.24	135.91	-90.00	-5,617.41	5,653.97	4,927.24	4,679.26	247.98	19.869		
12,300.00	7,870.00	7,843.00	7,843.00	112.20	135.91	-90.00	-5,617.41	5,653.97	4,827.78	4,579.93	247.86	19.478		
12,400.00	7,870.00	7,843.00	7,843.00	112.17	135.91	-90.00	-5,617.41	5,653.97	4,728.35	4,480.63	247.72	19.087		
12,500.00	7,870.00	7,843.00	7,843.00	112.16	135.91	-90.00	-5,617.41	5,653.97	4,628.94	4,381.35	247.59	18.696		
12,600.00	7,870.00	7,843.00	7,843.00	112.17	135.91	-90.00	-5,617.41	5,653.97	4,529.56	4,282.11	247.45	18.305		
12,700.00	7,870.00	7,843.00	7,843.00	112.19	135.91	-90.00	-5,617.41	5,653.97	4,430.20	4,182.91	247.30	17.914		
12,800.00	7,870.00	7,843.00	7,843.00	112.23	135.91	-90.00	-5,617.41	5,653.97	4,330.88	4,083.74	247.14	17.524		
12,900.00	7,870.00	7,843.00	7,843.00	112.28	135.91	-90.00	-5,617.41	5,653.97	4,231.59	3,984.61	246.98	17.133		
13,000.00	7,870.00	7,843.00	7,843.00	112.36	135.91	-90.00	-5,617.41	5,653.97	4,132.33	3,885.52	246.81	16.743		
13,100.00	7,870.00	7,843.00	7,843.00	112.45	135.91	-90.00	-5,617.41	5,653.97	4,033.10	3,786.47	246.63	16.353		
13,200.00	7,870.00	7,843.00	7,843.00	112.56	135.91	-90.00	-5,617.41	5,653.97	3,933.92	3,687.48	246.44	15.963		
13,300.00	7,870.00	7,843.00	7,843.00	112.68	135.91	-90.00	-5,617.41	5,653.97	3,834.78	3,588.53	246.25	15.573		
13,400.00	7,870.00	7,843.00	7,843.00	112.83	135.91	-90.00	-5,617.41	5,653.97	3,735.68	3,489.64	246.04	15.183		
13,500.00	7,870.00	7,843.00	7,843.00	113.00	135.91	-90.00	-5,617.41	5,653.97	3,636.64	3,390.82	245.82	14.794		
13,600.00	7,870.00	7,843.00	7,843.00	113.19	135.91	-90.00	-5,617.41	5,653.97	3,537.64	3,292.06	245.59	14.405		
13,700.00	7,870.00	7,843.00	7,843.00	113.40	135.91	-90.00	-5,617.41	5,653.97	3,438.71	3,193.37	245.34	14.016		
13,800.00	7,870.00	7,843.00	7,843.00	113.63	135.91	-90.00	-5,617.41	5,653.97	3,339.84	3,094.76	245.08	13.627		
13,900.00	7,870.00	7,843.00	7,843.00	113.89	135.91	-90.00	-5,617.41	5,653.97	3,241.04	2,996.23	244.81	13.239		
14,000.00	7,870.00	7,843.00	7,843.00	114.18	135.91	-90.00	-5,617.41	5,653.97	3,142.31	2,897.80	244.51	12.851		
14,100.00	7,870.00	7,843.00	7,843.00	114.48	135.91	-90.00	-5,617.41	5,653.97	3,043.67	2,799.47	244.20	12.464		
14,200.00	7,870.00	7,843.00	7,843.00	114.82	135.91	-90.00	-5,617.41	5,653.97	2,945.12	2,701.25	243.87	12.077		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,300.00	7,870.00	7,843.00	7,843.00	115.18	135.91	-90.00	-5,617.41	5,653.97	2,846.67	2,603.16	243.51	11.690		
14,400.00	7,870.00	7,843.00	7,843.00	115.57	135.91	-90.00	-5,617.41	5,653.97	2,748.33	2,505.20	243.13	11.304		
14,500.00	7,870.00	7,843.00	7,843.00	115.99	135.91	-90.00	-5,617.41	5,653.97	2,650.12	2,407.40	242.72	10.918		
14,600.00	7,870.00	7,843.00	7,843.00	116.44	135.91	-90.00	-5,617.41	5,653.97	2,552.05	2,309.76	242.28	10.533		
14,700.00	7,870.00	7,843.00	7,843.00	116.92	135.91	-90.00	-5,617.41	5,653.97	2,454.13	2,212.32	241.81	10.149		
14,800.00	7,870.00	7,843.00	7,843.00	117.44	135.91	-90.00	-5,617.41	5,653.97	2,356.38	2,115.09	241.30	9.766		
14,900.00	7,870.00	7,843.00	7,843.00	117.98	135.91	-90.00	-5,617.41	5,653.97	2,258.84	2,018.10	240.74	9.383		
15,000.00	7,870.00	7,843.00	7,843.00	118.56	135.91	-90.00	-5,617.41	5,653.97	2,161.51	1,921.38	240.13	9.001		
15,100.00	7,870.00	7,843.00	7,843.00	119.17	135.91	-90.00	-5,617.41	5,653.97	2,064.45	1,824.97	239.48	8.621		
15,200.00	7,870.00	7,843.00	7,843.00	119.81	135.91	-90.00	-5,617.41	5,653.97	1,967.68	1,728.92	238.75	8.241		
15,300.00	7,870.00	7,843.00	7,843.00	120.48	135.91	-90.00	-5,617.41	5,653.97	1,871.24	1,633.28	237.96	7.864		
15,400.00	7,870.00	7,843.00	7,843.00	121.19	135.91	-90.00	-5,617.41	5,653.97	1,775.20	1,538.11	237.09	7.487		
15,500.00	7,870.00	7,843.00	7,843.00	121.93	135.91	-90.00	-5,617.41	5,653.97	1,679.63	1,443.49	236.13	7.113		
15,600.00	7,870.00	7,843.00	7,843.00	122.71	135.91	-90.00	-5,617.41	5,653.97	1,584.60	1,349.53	235.07	6.741		
15,700.00	7,870.00	7,843.00	7,843.00	123.52	135.91	-90.00	-5,617.41	5,653.97	1,490.22	1,256.32	233.90	6.371		
15,800.00	7,870.00	7,843.00	7,843.00	124.36	135.91	-90.00	-5,617.41	5,653.97	1,396.62	1,164.03	232.59	6.005		
15,900.00	7,870.00	7,843.00	7,843.00	125.23	135.91	-90.00	-5,617.41	5,653.97	1,303.98	1,072.83	231.15	5.641		
16,000.00	7,870.00	7,843.00	7,843.00	126.14	135.91	-90.00	-5,617.41	5,653.97	1,212.50	982.94	229.56	5.282		
16,100.00	7,870.00	7,843.00	7,843.00	127.07	135.91	-90.00	-5,617.41	5,653.97	1,122.48	894.67	227.81	4.927		
16,200.00	7,870.00	7,843.00	7,843.00	128.04	135.91	-90.00	-5,617.41	5,653.97	1,034.29	808.36	225.93	4.578		
16,300.00	7,870.00	7,843.00	7,843.00	129.04	135.91	-90.00	-5,617.41	5,653.97	948.45	724.48	223.97	4.235		
16,400.00	7,870.00	7,843.00	7,843.00	130.06	135.91	-90.00	-5,617.41	5,653.97	865.66	643.59	222.07	3.898		
16,500.00	7,870.00	7,843.00	7,843.00	131.11	135.91	-90.00	-5,617.41	5,653.97	786.87	566.38	220.49	3.569		
16,600.00	7,870.00	7,843.00	7,843.00	132.19	135.91	-90.00	-5,617.41	5,653.97	713.42	493.68	219.74	3.247		
16,700.00	7,870.00	7,843.00	7,843.00	133.29	135.91	-90.00	-5,617.41	5,653.97	647.12	426.53	220.59	2.934		
16,800.00	7,870.00	7,843.00	7,843.00	134.42	135.91	-90.00	-5,617.41	5,653.97	590.40	366.31	224.08	2.635		
16,900.00	7,870.00	7,843.00	7,843.00	135.57	135.91	-90.00	-5,617.41	5,653.97	546.23	315.24	230.99	2.365		
17,000.00	7,870.00	7,843.00	7,843.00	136.75	135.91	-90.00	-5,617.41	5,653.97	517.85	276.79	241.06	2.148		
17,100.00	7,870.00	7,843.00	7,843.00	137.94	135.91	-90.00	-5,617.41	5,653.97	507.91	255.29	252.62	2.011		
17,100.99	7,870.00	7,843.00	7,843.00	137.95	135.91	-90.00	-5,617.41	5,653.97	507.91	255.18	252.73	2.010 CC		
17,200.00	7,870.00	7,843.00	7,843.00	139.16	135.91	-90.00	-5,617.41	5,653.97	517.47	254.20	263.27	1.966 ES, SF		
17,300.00	7,870.00	7,843.00	7,843.00	140.39	135.91	-90.00	-5,617.41	5,653.97	545.51	274.22	271.29	2.011		
17,400.00	7,870.00	7,843.00	7,843.00	141.65	135.91	-90.00	-5,617.41	5,653.97	589.39	313.10	276.29	2.133		
17,500.00	7,870.00	7,843.00	7,843.00	142.92	135.91	-90.00	-5,617.41	5,653.97	645.89	367.08	278.81	2.317		
17,600.00	7,870.00	7,843.00	7,843.00	144.21	135.91	-90.00	-5,617.41	5,653.97	712.03	432.38	279.65	2.546		
17,700.00	7,870.00	7,843.00	7,843.00	145.52	135.91	-90.00	-5,617.41	5,653.97	785.35	505.89	279.47	2.810		
17,800.00	7,870.00	7,843.00	7,843.00	146.84	135.91	-90.00	-5,617.41	5,653.97	864.05	585.31	278.74	3.100		
17,900.00	7,870.00	7,843.00	7,843.00	148.18	135.91	-90.00	-5,617.41	5,653.97	946.78	669.04	277.74	3.409		
18,000.00	7,870.00	7,843.00	7,843.00	149.54	135.91	-90.00	-5,617.41	5,653.97	1,032.56	755.92	276.64	3.733		
18,100.00	7,870.00	7,843.00	7,843.00	150.90	135.91	-90.00	-5,617.41	5,653.97	1,120.71	845.18	275.53	4.068		
18,200.00	7,870.00	7,843.00	7,843.00	152.28	135.91	-90.00	-5,617.41	5,653.97	1,210.70	936.25	274.45	4.411		
18,300.00	7,870.00	7,843.00	7,843.00	153.67	135.91	-90.00	-5,617.41	5,653.97	1,302.15	1,028.72	273.43	4.762		
18,400.00	7,870.00	7,843.00	7,843.00	155.07	135.91	-90.00	-5,617.41	5,653.97	1,394.77	1,122.30	272.48	5.119		
18,500.00	7,870.00	7,843.00	7,843.00	156.49	135.91	-90.00	-5,617.41	5,653.97	1,488.35	1,216.76	271.60	5.480		
18,600.00	7,870.00	7,843.00	7,843.00	157.91	135.91	-90.00	-5,617.41	5,653.97	1,582.72	1,311.94	270.78	5.845		
18,700.00	7,870.00	7,843.00	7,843.00	159.35	135.91	-90.00	-5,617.41	5,653.97	1,677.74	1,407.70	270.03	6.213		
18,800.00	7,870.00	7,843.00	7,843.00	160.79	135.91	-90.00	-5,617.41	5,653.97	1,773.30	1,503.96	269.35	6.584		
18,900.00	7,870.00	7,843.00	7,843.00	162.25	135.91	-90.00	-5,617.41	5,653.97	1,869.33	1,600.62	268.71	6.957		
19,000.00	7,870.00	7,843.00	7,843.00	163.71	135.91	-90.00	-5,617.41	5,653.97	1,965.76	1,697.63	268.13	7.331		
19,100.00	7,870.00	7,843.00	7,843.00	165.18	135.91	-90.00	-5,617.41	5,653.97	2,062.52	1,794.93	267.59	7.708		
19,200.00	7,870.00	7,843.00	7,843.00	166.66	135.91	-90.00	-5,617.41	5,653.97	2,159.58	1,892.49	267.09	8.086		
19,300.00	7,870.00	7,843.00	7,843.00	168.15	135.91	-90.00	-5,617.41	5,653.97	2,256.90	1,990.27	266.63	8.465		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,400.00	7,870.00	7,843.00	7,843.00	169.65	135.91	-90.00	-5,617.41	5,653.97	2,354.44	2,088.24	266.20	8.845	
19,500.00	7,870.00	7,843.00	7,843.00	171.15	135.91	-90.00	-5,617.41	5,653.97	2,452.18	2,186.38	265.81	9.225	
19,600.00	7,870.00	7,843.00	7,843.00	172.66	135.91	-90.00	-5,617.41	5,653.97	2,550.10	2,284.66	265.44	9.607	
19,700.00	7,870.00	7,843.00	7,843.00	174.18	135.91	-90.00	-5,617.41	5,653.97	2,648.17	2,383.08	265.09	9.990	
19,800.00	7,870.00	7,843.00	7,843.00	175.70	135.91	-90.00	-5,617.41	5,653.97	2,746.38	2,481.61	264.77	10.373	
19,889.26	7,870.00	7,843.00	7,843.00	177.06	135.91	-90.00	-5,617.41	5,653.97	2,834.15	2,569.64	264.51	10.715	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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-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	134.66	-4,823.43	4,880.55	6,862.02					
100.00	100.00	54.00	54.00	0.13	0.41	134.66	-4,823.43	4,880.55	6,861.87	6,861.32	0.55	N/A		
200.00	200.00	154.00	154.00	0.49	1.71	134.66	-4,823.43	4,880.55	6,861.87	6,859.67	2.20	3,114.329		
300.00	300.00	254.00	254.00	0.85	3.46	134.66	-4,823.43	4,880.55	6,861.87	6,857.56	4.31	1,593.144		
400.00	399.98	353.98	353.98	1.21	5.20	66.54	-4,823.43	4,880.55	6,861.17	6,854.77	6.41	1,071.035		
500.00	499.84	453.84	453.84	1.56	6.94	66.62	-4,823.43	4,880.55	6,859.09	6,850.59	8.50	806.497		
600.00	599.45	553.45	553.45	1.93	8.68	66.75	-4,823.43	4,880.55	6,855.63	6,845.02	10.61	646.197		
700.00	698.70	652.70	652.70	2.32	10.41	66.93	-4,823.43	4,880.55	6,850.81	6,838.09	12.72	538.521		
800.00	797.47	751.47	751.47	2.72	12.14	67.17	-4,823.43	4,880.55	6,844.64	6,829.80	14.84	461.079		
900.00	895.62	849.62	849.62	3.16	13.85	67.45	-4,823.43	4,880.55	6,837.16	6,820.18	16.98	402.600		
1,000.00	993.06	947.06	947.06	3.63	15.55	67.78	-4,823.43	4,880.55	6,828.41	6,809.27	19.14	356.799		
1,100.00	1,089.64	1,043.64	1,043.64	4.14	17.24	68.17	-4,823.43	4,880.55	6,818.41	6,797.09	21.31	319.897		
1,200.00	1,185.27	1,139.27	1,139.27	4.70	18.91	68.59	-4,823.43	4,880.55	6,807.21	6,783.70	23.51	289.485		
1,300.00	1,279.82	1,233.82	1,233.82	5.31	20.56	69.07	-4,823.43	4,880.55	6,794.87	6,769.13	25.74	263.959		
1,400.00	1,373.17	1,327.17	1,327.17	5.97	22.19	69.59	-4,823.43	4,880.55	6,781.45	6,753.45	28.00	242.204		
1,500.00	1,465.21	1,419.21	1,419.21	6.69	23.79	70.15	-4,823.43	4,880.55	6,766.99	6,736.70	30.29	223.428		
1,600.00	1,555.84	1,509.84	1,509.84	7.47	25.37	70.76	-4,823.43	4,880.55	6,751.58	6,718.97	32.61	207.047		
1,700.00	1,644.94	1,601.06	1,598.94	8.31	26.97	71.40	-4,823.43	4,880.55	6,735.28	6,700.27	35.00	192.420		
1,800.00	1,732.39	1,686.39	1,686.39	9.23	28.46	72.08	-4,823.43	4,880.55	6,718.16	6,680.80	37.36	179.826		
1,900.00	1,818.11	1,772.11	1,772.11	10.21	29.95	72.79	-4,823.43	4,880.55	6,700.32	6,660.53	39.79	168.391		
2,000.00	1,901.97	1,855.97	1,855.97	11.26	31.42	73.53	-4,823.43	4,880.55	6,681.83	6,639.57	42.26	158.114		
2,100.00	1,983.88	1,937.88	1,937.88	12.38	32.85	74.30	-4,823.43	4,880.55	6,662.78	6,618.01	44.77	148.830		
2,200.00	2,063.74	2,017.74	2,017.74	13.57	34.24	75.09	-4,823.43	4,880.55	6,643.27	6,595.95	47.31	140.406		
2,300.00	2,141.45	2,104.55	2,095.45	14.84	35.75	75.90	-4,823.43	4,880.55	6,623.39	6,573.33	50.06	132.311		
2,327.78	2,162.65	2,116.65	2,116.65	15.21	35.97	76.13	-4,823.43	4,880.55	6,617.81	6,567.19	50.62	130.723		
2,400.00	2,217.51	2,171.51	2,171.51	16.17	36.92	76.43	-4,823.43	4,880.55	6,603.45	6,550.93	52.52	125.736		
2,500.00	2,293.49	2,247.49	2,247.49	17.51	38.25	76.86	-4,823.43	4,880.55	6,584.05	6,528.90	55.16	119.365		
2,600.00	2,369.47	2,323.47	2,323.47	18.86	39.57	77.28	-4,823.43	4,880.55	6,565.25	6,507.43	57.82	113.552		
2,700.00	2,445.45	2,400.55	2,399.45	20.22	40.92	77.71	-4,823.43	4,880.55	6,547.04	6,486.53	60.51	108.198		
2,800.00	2,521.42	2,475.42	2,475.42	21.59	42.23	78.14	-4,823.43	4,880.55	6,529.42	6,466.24	63.18	103.351		
2,900.00	2,597.40	2,551.40	2,551.40	22.97	43.55	78.57	-4,823.43	4,880.55	6,512.40	6,446.53	65.87	98.861		
3,000.00	2,673.38	2,627.38	2,627.38	24.34	44.88	79.01	-4,823.43	4,880.55	6,495.99	6,427.41	68.58	94.718		
3,100.00	2,749.36	2,703.36	2,703.36	25.73	46.21	79.44	-4,823.43	4,880.55	6,480.20	6,408.90	71.30	90.887		
3,200.00	2,825.33	2,779.33	2,779.33	27.11	47.53	79.88	-4,823.43	4,880.55	6,465.01	6,390.99	74.02	87.337		
3,300.00	2,901.31	2,855.31	2,855.31	28.50	48.86	80.31	-4,823.43	4,880.55	6,450.45	6,373.69	76.76	84.038		
3,400.00	2,977.29	2,931.29	2,931.29	29.90	50.18	80.75	-4,823.43	4,880.55	6,436.51	6,357.01	79.49	80.968		
3,500.00	3,053.27	3,007.27	3,007.27	31.29	51.51	81.19	-4,823.43	4,880.55	6,423.20	6,340.96	82.24	78.105		
3,600.00	3,129.24	3,083.24	3,083.24	32.69	52.84	81.63	-4,823.43	4,880.55	6,410.52	6,325.53	84.99	75.429		
3,700.00	3,205.22	3,159.22	3,159.22	34.08	54.16	82.07	-4,823.43	4,880.55	6,398.47	6,310.73	87.74	72.925		
3,800.00	3,281.20	3,235.20	3,235.20	35.48	55.49	82.51	-4,823.43	4,880.55	6,387.07	6,296.57	90.50	70.578		
3,900.00	3,357.18	3,311.18	3,311.18	36.88	56.81	82.95	-4,823.43	4,880.55	6,376.31	6,283.05	93.26	68.374		
4,000.00	3,433.15	3,387.15	3,387.15	38.29	58.14	83.40	-4,823.43	4,880.55	6,366.19	6,270.17	96.02	66.301		
4,100.00	3,509.13	3,463.13	3,463.13	39.69	59.47	83.84	-4,823.43	4,880.55	6,356.72	6,257.94	98.78	64.350		
4,200.00	3,585.11	3,539.11	3,539.11	41.09	60.79	84.29	-4,823.43	4,880.55	6,347.91	6,246.36	101.55	62.510		
4,300.00	3,661.08	3,615.08	3,615.08	42.50	62.12	84.73	-4,823.43	4,880.55	6,339.75	6,235.43	104.32	60.774		
4,400.00	3,737.06	3,708.94	3,691.06	43.90	63.76	85.18	-4,823.43	4,880.55	6,332.24	6,224.84	107.40	58.961		
4,500.00	3,813.04	3,767.04	3,767.04	45.31	64.77	85.63	-4,823.43	4,880.55	6,325.40	6,215.54	109.85	57.581		
4,600.00	3,889.02	3,843.02	3,843.02	46.71	66.10	86.07	-4,823.43	4,880.55	6,319.21	6,206.59	112.62	56.111		
4,700.00	3,964.99	3,918.99	3,918.99	48.12	67.42	86.52	-4,823.43	4,880.55	6,313.69	6,198.31	115.39	54.718		
4,800.00	4,040.97	4,005.03	3,994.97	49.53	68.92	86.97	-4,823.43	4,880.55	6,308.84	6,190.51	118.33	53.317		
4,900.00	4,116.95	4,070.95	4,070.95	50.94	70.07	87.42	-4,823.43	4,880.55	6,304.65	6,183.74	120.91	52.142		
5,000.00	4,192.93	4,146.93	4,146.93	52.35	71.40	87.87	-4,823.43	4,880.55	6,301.13	6,177.46	123.67	50.950		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,268.90	4,222.90	4,222.90	53.76	72.73	88.32	-4,823.43	4,880.55	6,298.28	6,171.85	126.43	49.816		
5,200.00	4,344.88	4,301.12	4,298.88	55.16	74.09	88.76	-4,823.43	4,880.55	6,296.11	6,166.88	129.23	48.722		
5,300.00	4,420.86	4,374.86	4,374.86	56.57	75.38	89.21	-4,823.43	4,880.55	6,294.60	6,162.66	131.94	47.709		
5,400.00	4,496.84	4,450.84	4,450.84	57.98	76.70	89.66	-4,823.43	4,880.55	6,293.76	6,159.08	134.68	46.730		
5,474.67	4,553.57	4,507.57	4,507.57	59.04	77.69	90.00	-4,823.43	4,880.55	6,293.57	6,156.84	136.73	46.029		
5,500.00	4,572.81	4,526.81	4,526.81	59.39	78.03	90.11	-4,823.43	4,880.55	6,293.59	6,156.17	137.42	45.797		
5,600.00	4,648.79	4,602.79	4,602.79	60.81	79.36	90.56	-4,823.43	4,880.55	6,294.10	6,153.94	140.16	44.906		
5,700.00	4,724.77	4,678.77	4,678.77	62.22	80.68	91.01	-4,823.43	4,880.55	6,295.28	6,152.39	142.89	44.056		
5,800.00	4,800.74	4,754.74	4,754.74	63.63	82.01	91.46	-4,823.43	4,880.55	6,297.13	6,151.51	145.62	43.244		
5,900.00	4,876.72	4,830.72	4,830.72	65.04	83.33	91.91	-4,823.43	4,880.55	6,299.64	6,151.31	148.34	42.469		
6,000.00	4,952.70	4,906.70	4,906.70	66.45	84.66	92.36	-4,823.43	4,880.55	6,302.83	6,151.79	151.05	41.727		
6,100.00	5,028.68	4,982.68	4,982.68	67.86	85.99	92.81	-4,823.43	4,880.55	6,306.69	6,152.94	153.75	41.018		
6,200.00	5,104.65	5,058.65	5,058.65	69.27	87.31	93.26	-4,823.43	4,880.55	6,311.22	6,154.77	156.45	40.340		
6,300.00	5,180.63	5,134.63	5,134.63	70.69	88.64	93.71	-4,823.43	4,880.55	6,316.41	6,157.27	159.14	39.691		
6,400.00	5,256.61	5,210.61	5,210.61	72.10	89.96	94.15	-4,823.43	4,880.55	6,322.26	6,160.44	161.82	39.069		
6,500.00	5,332.59	5,286.59	5,286.59	73.51	91.29	94.60	-4,823.43	4,880.55	6,328.78	6,164.29	164.49	38.474		
6,600.00	5,408.56	5,362.56	5,362.56	74.92	92.62	95.05	-4,823.43	4,880.55	6,335.96	6,168.80	167.16	37.904		
6,700.00	5,484.54	5,438.54	5,438.54	76.34	93.94	95.49	-4,823.43	4,880.55	6,343.80	6,173.99	169.81	37.358		
6,800.00	5,560.52	5,514.52	5,514.52	77.75	95.27	95.94	-4,823.43	4,880.55	6,352.29	6,179.83	172.46	36.834		
6,900.00	5,636.50	5,609.50	5,609.50	79.16	96.93	96.38	-4,823.43	4,880.55	6,361.44	6,186.01	175.42	36.263		
7,000.00	5,712.47	5,666.47	5,666.47	80.57	97.92	96.83	-4,823.43	4,880.55	6,371.23	6,193.52	177.72	35.850		
7,100.00	5,788.45	5,742.45	5,742.45	81.99	99.25	97.27	-4,823.43	4,880.55	6,381.68	6,201.34	180.33	35.388		
7,200.00	5,864.43	5,818.43	5,818.43	83.40	100.57	97.71	-4,823.43	4,880.55	6,392.77	6,209.83	182.94	34.945		
7,300.00	5,940.40	5,905.60	5,905.60	84.81	102.09	98.15	-4,823.43	4,880.55	6,404.50	6,218.77	185.73	34.484		
7,400.00	6,016.38	5,970.38	5,970.38	86.23	103.23	98.59	-4,823.43	4,880.55	6,416.86	6,228.75	188.11	34.112		
7,500.00	6,092.36	6,046.36	6,046.36	87.64	104.55	99.03	-4,823.43	4,880.55	6,429.86	6,239.18	190.68	33.720		
7,600.00	6,168.34	6,122.34	6,122.34	89.05	105.88	99.47	-4,823.43	4,880.55	6,443.49	6,250.25	193.24	33.344		
7,700.00	6,244.31	6,201.69	6,198.31	90.47	107.26	99.91	-4,823.43	4,880.55	6,457.75	6,261.90	195.85	32.973		
7,800.00	6,320.29	6,274.29	6,274.29	91.88	108.53	100.34	-4,823.43	4,880.55	6,472.63	6,274.30	198.32	32.636		
7,900.00	6,396.27	6,350.27	6,350.27	93.30	109.86	100.78	-4,823.43	4,880.55	6,488.12	6,287.27	200.85	32.304		
8,000.00	6,472.25	6,426.25	6,426.25	94.71	111.18	101.21	-4,823.43	4,880.55	6,504.23	6,300.87	203.36	31.984		
8,100.00	6,548.22	6,502.22	6,502.22	96.12	112.51	101.64	-4,823.43	4,880.55	6,520.95	6,315.09	205.86	31.677		
8,200.00	6,624.20	6,578.20	6,578.20	97.54	113.83	102.07	-4,823.43	4,880.55	6,538.27	6,329.92	208.34	31.382		
8,300.00	6,700.18	6,654.18	6,654.18	98.95	115.16	102.50	-4,823.43	4,880.55	6,556.19	6,345.37	210.82	31.099		
8,400.00	6,776.16	6,730.16	6,730.16	100.37	116.49	102.93	-4,823.43	4,880.55	6,574.70	6,361.42	213.28	30.827		
8,500.00	6,852.13	6,806.13	6,806.13	101.78	117.81	103.36	-4,823.43	4,880.55	6,593.81	6,378.08	215.73	30.565		
8,600.00	6,928.11	6,882.11	6,882.11	103.20	119.14	103.78	-4,823.43	4,880.55	6,613.49	6,395.33	218.16	30.315		
8,700.00	7,004.09	6,958.09	6,958.09	104.61	120.46	104.21	-4,823.43	4,880.55	6,633.76	6,413.17	220.59	30.073		
8,800.00	7,080.06	7,034.06	7,034.06	106.02	121.79	104.63	-4,823.43	4,880.55	6,654.60	6,431.60	222.99	29.842		
8,900.00	7,156.04	7,110.04	7,110.04	107.44	123.12	105.05	-4,823.43	4,880.55	6,676.01	6,450.62	225.39	29.620		
9,000.00	7,232.02	7,186.02	7,186.02	108.85	124.44	105.47	-4,823.43	4,880.55	6,697.98	6,470.20	227.77	29.406		
9,104.68	7,311.55	7,265.55	7,265.55	110.33	125.83	105.90	-4,823.43	4,880.55	6,721.57	6,491.32	230.26	29.192		
9,150.00	7,346.29	7,300.29	7,300.29	110.97	126.44	100.87	-4,823.43	4,880.55	6,730.22	6,498.89	231.34	29.093		
9,200.00	7,385.15	7,339.15	7,339.15	111.65	127.12	94.99	-4,823.43	4,880.55	6,735.79	6,503.25	232.54	28.966		
9,250.00	7,424.29	7,378.29	7,378.29	112.31	127.80	88.92	-4,823.43	4,880.55	6,737.15	6,503.40	233.75	28.822		
9,300.00	7,463.40	7,417.40	7,417.40	112.93	128.48	82.86	-4,823.43	4,880.55	6,734.30	6,499.34	234.96	28.662		
9,350.00	7,502.19	7,456.19	7,456.19	113.51	129.16	77.01	-4,823.43	4,880.55	6,727.24	6,491.10	236.14	28.488		
9,400.00	7,540.36	7,505.64	7,494.36	114.04	130.02	71.53	-4,823.43	4,880.55	6,716.04	6,478.55	237.50	28.279		
9,450.00	7,577.62	7,531.62	7,531.62	114.53	130.47	66.53	-4,823.43	4,880.55	6,700.77	6,462.36	238.41	28.106		
9,500.00	7,613.70	7,567.70	7,567.70	114.95	131.10	62.07	-4,823.43	4,880.55	6,681.53	6,442.05	239.48	27.901		
9,550.00	7,648.30	7,602.30	7,602.30	115.32	131.71	58.18	-4,823.43	4,880.55	6,658.46	6,417.98	240.48	27.688		
9,600.00	7,681.18	7,635.18	7,635.18	115.63	132.28	54.83	-4,823.43	4,880.55	6,631.72	6,390.30	241.42	27.469		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,650.00	7,712.08	7,666.08	7,666.08	115.88	132.82	52.01	-4,823.43	4,880.55	6,601.51	6,359.21	242.29	27.246		
9,700.00	7,740.76	7,705.24	7,694.76	116.08	133.50	49.67	-4,823.43	4,880.55	6,568.02	6,324.75	243.27	26.999		
9,750.00	7,767.01	7,721.01	7,721.01	116.23	133.78	47.80	-4,823.43	4,880.55	6,531.50	6,287.70	243.80	26.790		
9,800.00	7,790.63	7,744.63	7,744.63	116.33	134.19	46.37	-4,823.43	4,880.55	6,492.21	6,247.78	244.43	26.560		
9,850.00	7,811.44	7,765.44	7,765.44	116.38	134.56	45.38	-4,823.43	4,880.55	6,450.44	6,205.46	244.98	26.331		
9,900.00	7,829.28	7,783.28	7,783.28	116.38	134.87	44.88	-4,823.43	4,880.55	6,406.47	6,161.03	245.44	26.102		
9,950.00	7,844.01	7,801.99	7,798.01	116.35	135.19	44.97	-4,823.43	4,880.55	6,360.63	6,114.75	245.88	25.869		
10,000.00	7,855.52	7,809.52	7,809.52	116.28	135.32	45.92	-4,823.43	4,880.55	6,313.26	6,067.16	246.10	25.653		
10,050.00	7,863.72	7,817.72	7,817.72	116.18	135.47	48.53	-4,823.43	4,880.55	6,264.69	6,018.39	246.31	25.435		
10,100.00	7,868.56	7,822.56	7,822.56	116.06	135.55	56.03	-4,823.43	4,880.55	6,215.30	5,968.87	246.43	25.221		
10,145.94	7,870.00	7,824.00	7,824.00	115.92	135.58	90.00	-4,823.43	4,880.55	6,169.50	5,923.03	246.47	25.031		
10,200.00	7,870.00	7,824.00	7,824.00	115.76	135.58	90.00	-4,823.43	4,880.55	6,115.49	5,869.00	246.49	24.811		
10,300.00	7,870.00	7,824.00	7,824.00	115.46	135.58	90.00	-4,823.43	4,880.55	6,015.59	5,769.08	246.51	24.403		
10,400.00	7,870.00	7,824.00	7,824.00	115.18	135.58	90.00	-4,823.43	4,880.55	5,915.69	5,669.15	246.54	23.995		
10,500.00	7,870.00	7,824.00	7,824.00	114.91	135.58	90.00	-4,823.43	4,880.55	5,815.80	5,569.23	246.57	23.587		
10,600.00	7,870.00	7,824.00	7,824.00	114.65	135.58	90.00	-4,823.43	4,880.55	5,715.90	5,469.31	246.60	23.179		
10,700.00	7,870.00	7,824.00	7,824.00	114.41	135.58	90.00	-4,823.43	4,880.55	5,616.02	5,369.39	246.63	22.771		
10,800.00	7,870.00	7,824.00	7,824.00	114.17	135.58	90.00	-4,823.43	4,880.55	5,516.13	5,269.47	246.66	22.363		
10,900.00	7,870.00	7,824.00	7,824.00	113.95	135.58	90.00	-4,823.43	4,880.55	5,416.25	5,169.56	246.69	21.955		
11,000.00	7,870.00	7,824.00	7,824.00	113.75	135.58	90.00	-4,823.43	4,880.55	5,316.38	5,069.65	246.73	21.547		
11,100.00	7,870.00	7,824.00	7,824.00	113.55	135.58	90.00	-4,823.43	4,880.55	5,216.51	4,969.74	246.77	21.140		
11,200.00	7,870.00	7,824.00	7,824.00	113.37	135.58	90.00	-4,823.43	4,880.55	5,116.64	4,869.84	246.80	20.732		
11,300.00	7,870.00	7,824.00	7,824.00	113.20	135.58	90.00	-4,823.43	4,880.55	5,016.78	4,769.94	246.84	20.324		
11,400.00	7,870.00	7,824.00	7,824.00	113.04	135.58	90.00	-4,823.43	4,880.55	4,916.93	4,670.04	246.89	19.916		
11,500.00	7,870.00	7,824.00	7,824.00	112.89	135.58	90.00	-4,823.43	4,880.55	4,817.08	4,570.15	246.93	19.508		
11,600.00	7,870.00	7,824.00	7,824.00	112.76	135.58	90.00	-4,823.43	4,880.55	4,717.24	4,470.26	246.98	19.100		
11,700.00	7,870.00	7,824.00	7,824.00	112.64	135.58	90.00	-4,823.43	4,880.55	4,617.40	4,370.38	247.02	18.692		
11,800.00	7,870.00	7,824.00	7,824.00	112.53	135.58	90.00	-4,823.43	4,880.55	4,517.58	4,270.50	247.07	18.284		
11,900.00	7,870.00	7,824.00	7,824.00	112.44	135.58	90.00	-4,823.43	4,880.55	4,417.76	4,170.63	247.13	17.876		
12,000.00	7,870.00	7,824.00	7,824.00	112.36	135.58	90.00	-4,823.43	4,880.55	4,317.94	4,070.76	247.18	17.469		
12,100.00	7,870.00	7,824.00	7,824.00	112.29	135.58	90.00	-4,823.43	4,880.55	4,218.14	3,970.90	247.24	17.061		
12,200.00	7,870.00	7,824.00	7,824.00	112.24	135.58	90.00	-4,823.43	4,880.55	4,118.35	3,871.05	247.30	16.653		
12,300.00	7,870.00	7,824.00	7,824.00	112.20	135.58	90.00	-4,823.43	4,880.55	4,018.57	3,771.20	247.37	16.245		
12,400.00	7,870.00	7,824.00	7,824.00	112.17	135.58	90.00	-4,823.43	4,880.55	3,918.80	3,671.36	247.43	15.838		
12,500.00	7,870.00	7,824.00	7,824.00	112.16	135.58	90.00	-4,823.43	4,880.55	3,819.04	3,571.53	247.51	15.430		
12,600.00	7,870.00	7,824.00	7,824.00	112.17	135.58	90.00	-4,823.43	4,880.55	3,719.29	3,471.71	247.58	15.023		
12,700.00	7,870.00	7,824.00	7,824.00	112.19	135.58	90.00	-4,823.43	4,880.55	3,619.56	3,371.90	247.66	14.615		
12,800.00	7,870.00	7,824.00	7,824.00	112.23	135.58	90.00	-4,823.43	4,880.55	3,519.84	3,272.10	247.74	14.208		
12,900.00	7,870.00	7,824.00	7,824.00	112.28	135.58	90.00	-4,823.43	4,880.55	3,420.14	3,172.31	247.83	13.800		
13,000.00	7,870.00	7,824.00	7,824.00	112.36	135.58	90.00	-4,823.43	4,880.55	3,320.46	3,072.53	247.92	13.393		
13,100.00	7,870.00	7,824.00	7,824.00	112.45	135.58	90.00	-4,823.43	4,880.55	3,220.79	2,972.77	248.02	12.986		
13,200.00	7,870.00	7,824.00	7,824.00	112.56	135.58	90.00	-4,823.43	4,880.55	3,121.15	2,873.02	248.13	12.579		
13,300.00	7,870.00	7,824.00	7,824.00	112.68	135.58	90.00	-4,823.43	4,880.55	3,021.53	2,773.29	248.24	12.172		
13,400.00	7,870.00	7,824.00	7,824.00	112.83	135.58	90.00	-4,823.43	4,880.55	2,921.94	2,673.58	248.36	11.765		
13,500.00	7,870.00	7,824.00	7,824.00	113.00	135.58	90.00	-4,823.43	4,880.55	2,822.38	2,573.89	248.49	11.358		
13,600.00	7,870.00	7,824.00	7,824.00	113.19	135.58	90.00	-4,823.43	4,880.55	2,722.85	2,474.23	248.62	10.952		
13,700.00	7,870.00	7,824.00	7,824.00	113.40	135.58	90.00	-4,823.43	4,880.55	2,623.35	2,374.59	248.77	10.545		
13,800.00	7,870.00	7,824.00	7,824.00	113.63	135.58	90.00	-4,823.43	4,880.55	2,523.90	2,274.98	248.92	10.139		
13,900.00	7,870.00	7,824.00	7,824.00	113.89	135.58	90.00	-4,823.43	4,880.55	2,424.49	2,175.40	249.09	9.733		
14,000.00	7,870.00	7,824.00	7,824.00	114.18	135.58	90.00	-4,823.43	4,880.55	2,325.13	2,075.86	249.27	9.328		
14,100.00	7,870.00	7,824.00	7,824.00	114.48	135.58	90.00	-4,823.43	4,880.55	2,225.82	1,976.36	249.46	8.922		
14,200.00	7,870.00	7,824.00	7,824.00	114.82	135.58	90.00	-4,823.43	4,880.55	2,126.59	1,876.91	249.68	8.517		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,300.00	7,870.00	7,824.00	7,824.00	115.18	135.58	90.00	-4,823.43	4,880.55	2,027.42	1,777.52	249.91	8.113		
14,400.00	7,870.00	7,824.00	7,824.00	115.57	135.58	90.00	-4,823.43	4,880.55	1,928.35	1,678.19	250.16	7.708		
14,500.00	7,870.00	7,824.00	7,824.00	115.99	135.58	90.00	-4,823.43	4,880.55	1,829.37	1,578.94	250.44	7.305		
14,600.00	7,870.00	7,824.00	7,824.00	116.44	135.58	90.00	-4,823.43	4,880.55	1,730.51	1,479.77	250.74	6.902		
14,700.00	7,870.00	7,824.00	7,824.00	116.92	135.58	90.00	-4,823.43	4,880.55	1,631.80	1,380.72	251.08	6.499		
14,800.00	7,870.00	7,824.00	7,824.00	117.44	135.58	90.00	-4,823.43	4,880.55	1,533.24	1,281.79	251.45	6.098		
14,900.00	7,870.00	7,824.00	7,824.00	117.98	135.58	90.00	-4,823.43	4,880.55	1,434.89	1,183.02	251.87	5.697		
15,000.00	7,870.00	7,824.00	7,824.00	118.56	135.58	90.00	-4,823.43	4,880.55	1,336.78	1,084.44	252.35	5.297		
15,100.00	7,870.00	7,824.00	7,824.00	119.17	135.58	90.00	-4,823.43	4,880.55	1,238.98	986.10	252.88	4.899		
15,200.00	7,870.00	7,824.00	7,824.00	119.81	135.58	90.00	-4,823.43	4,880.55	1,141.55	888.07	253.49	4.503		
15,300.00	7,870.00	7,824.00	7,824.00	120.48	135.58	90.00	-4,823.43	4,880.55	1,044.62	790.44	254.18	4.110		
15,400.00	7,870.00	7,824.00	7,824.00	121.19	135.58	90.00	-4,823.43	4,880.55	948.32	693.34	254.98	3.719		
15,500.00	7,870.00	7,824.00	7,824.00	121.93	135.58	90.00	-4,823.43	4,880.55	852.87	596.96	255.90	3.333		
15,600.00	7,870.00	7,824.00	7,824.00	122.71	135.58	90.00	-4,823.43	4,880.55	758.59	501.62	256.97	2.952		
15,700.00	7,870.00	7,824.00	7,824.00	123.52	135.58	90.00	-4,823.43	4,880.55	665.99	407.81	258.17	2.580		
15,800.00	7,870.00	7,824.00	7,824.00	124.36	135.58	90.00	-4,823.43	4,880.55	575.86	316.37	259.49	2.219		
15,900.00	7,870.00	7,824.00	7,824.00	125.23	135.58	90.00	-4,823.43	4,880.55	489.59	228.82	260.76	1.878		
16,000.00	7,870.00	7,824.00	7,824.00	126.14	135.58	90.00	-4,823.43	4,880.55	409.60	148.11	261.49	1.566		
16,100.00	7,870.00	7,824.00	7,824.00	127.07	135.58	90.00	-4,823.43	4,880.55	340.37	80.06	260.31	1.308	Level 3	
16,200.00	7,870.00	7,824.00	7,824.00	128.04	135.58	90.00	-4,823.43	4,880.55	289.70	35.35	254.35	1.139	Level 2	
16,300.00	7,870.00	7,824.00	7,824.00	129.04	135.58	90.00	-4,823.43	4,880.55	268.34	27.02	241.32	1.112	Level 2, ES, SF	
16,309.61	7,870.00	7,824.00	7,824.00	129.13	135.58	90.00	-4,823.43	4,880.55	268.17	28.36	239.81	1.118	Level 2, CC	
16,400.00	7,870.00	7,824.00	7,824.00	130.06	135.58	90.00	-4,823.43	4,880.55	282.99	56.24	226.75	1.248	Level 2	
16,500.00	7,870.00	7,824.00	7,824.00	131.11	135.58	90.00	-4,823.43	4,880.55	328.88	109.15	219.74	1.497	Level 3	
16,600.00	7,870.00	7,824.00	7,824.00	132.19	135.58	90.00	-4,823.43	4,880.55	395.27	175.55	219.72	1.799		
16,700.00	7,870.00	7,824.00	7,824.00	133.29	135.58	90.00	-4,823.43	4,880.55	473.62	251.34	222.29	2.131		
16,800.00	7,870.00	7,824.00	7,824.00	134.42	135.58	90.00	-4,823.43	4,880.55	558.93	333.77	225.16	2.482		
16,900.00	7,870.00	7,824.00	7,824.00	135.57	135.58	90.00	-4,823.43	4,880.55	648.44	420.75	227.69	2.848		
17,000.00	7,870.00	7,824.00	7,824.00	136.75	135.58	90.00	-4,823.43	4,880.55	740.64	510.85	229.79	3.223		
17,100.00	7,870.00	7,824.00	7,824.00	137.94	135.58	90.00	-4,823.43	4,880.55	834.65	603.13	231.51	3.605		
17,200.00	7,870.00	7,824.00	7,824.00	139.16	135.58	90.00	-4,823.43	4,880.55	929.90	696.97	232.93	3.992		
17,300.00	7,870.00	7,824.00	7,824.00	140.39	135.58	90.00	-4,823.43	4,880.55	1,026.05	791.95	234.10	4.383		
17,400.00	7,870.00	7,824.00	7,824.00	141.65	135.58	90.00	-4,823.43	4,880.55	1,122.88	887.80	235.09	4.776		
17,500.00	7,870.00	7,824.00	7,824.00	142.92	135.58	90.00	-4,823.43	4,880.55	1,220.22	984.30	235.92	5.172		
17,600.00	7,870.00	7,824.00	7,824.00	144.21	135.58	90.00	-4,823.43	4,880.55	1,317.96	1,081.32	236.64	5.569		
17,700.00	7,870.00	7,824.00	7,824.00	145.52	135.58	90.00	-4,823.43	4,880.55	1,416.02	1,178.75	237.27	5.968		
17,800.00	7,870.00	7,824.00	7,824.00	146.84	135.58	90.00	-4,823.43	4,880.55	1,514.32	1,276.51	237.81	6.368		
17,900.00	7,870.00	7,824.00	7,824.00	148.18	135.58	90.00	-4,823.43	4,880.55	1,612.84	1,374.55	238.29	6.768		
18,000.00	7,870.00	7,824.00	7,824.00	149.54	135.58	90.00	-4,823.43	4,880.55	1,711.53	1,472.81	238.72	7.170		
18,100.00	7,870.00	7,824.00	7,824.00	150.90	135.58	90.00	-4,823.43	4,880.55	1,810.36	1,571.26	239.10	7.571		
18,200.00	7,870.00	7,824.00	7,824.00	152.28	135.58	90.00	-4,823.43	4,880.55	1,909.32	1,669.87	239.45	7.974		
18,300.00	7,870.00	7,824.00	7,824.00	153.67	135.58	90.00	-4,823.43	4,880.55	2,008.38	1,768.61	239.76	8.377		
18,400.00	7,870.00	7,824.00	7,824.00	155.07	135.58	90.00	-4,823.43	4,880.55	2,107.52	1,867.47	240.05	8.780		
18,500.00	7,870.00	7,824.00	7,824.00	156.49	135.58	90.00	-4,823.43	4,880.55	2,206.75	1,966.44	240.31	9.183		
18,600.00	7,870.00	7,824.00	7,824.00	157.91	135.58	90.00	-4,823.43	4,880.55	2,306.04	2,065.49	240.55	9.587		
18,700.00	7,870.00	7,824.00	7,824.00	159.35	135.58	90.00	-4,823.43	4,880.55	2,405.39	2,164.62	240.77	9.990		
18,800.00	7,870.00	7,824.00	7,824.00	160.79	135.58	90.00	-4,823.43	4,880.55	2,504.79	2,263.81	240.98	10.394		
18,900.00	7,870.00	7,824.00	7,824.00	162.25	135.58	90.00	-4,823.43	4,880.55	2,604.23	2,363.07	241.17	10.798		
19,000.00	7,870.00	7,824.00	7,824.00	163.71	135.58	90.00	-4,823.43	4,880.55	2,703.72	2,462.38	241.35	11.203		
19,100.00	7,870.00	7,824.00	7,824.00	165.18	135.58	90.00	-4,823.43	4,880.55	2,803.25	2,561.73	241.51	11.607		
19,200.00	7,870.00	7,824.00	7,824.00	166.66	135.58	90.00	-4,823.43	4,880.55	2,902.80	2,661.13	241.67	12.011		
19,300.00	7,870.00	7,824.00	7,824.00	168.15	135.58	90.00	-4,823.43	4,880.55	3,002.39	2,760.57	241.82	12.416		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,400.00	7,870.00	7,824.00	7,824.00	169.65	135.58	90.00	-4,823.43	4,880.55	3,102.00	2,860.04	241.96	12.820	
19,500.00	7,870.00	7,824.00	7,824.00	171.15	135.58	90.00	-4,823.43	4,880.55	3,201.64	2,959.55	242.09	13.225	
19,600.00	7,870.00	7,824.00	7,824.00	172.66	135.58	90.00	-4,823.43	4,880.55	3,301.30	3,059.08	242.22	13.629	
19,700.00	7,870.00	7,824.00	7,824.00	174.18	135.58	90.00	-4,823.43	4,880.55	3,400.98	3,158.64	242.34	14.034	
19,800.00	7,870.00	7,824.00	7,824.00	175.70	135.58	90.00	-4,823.43	4,880.55	3,500.68	3,258.22	242.45	14.439	
19,889.26	7,870.00	7,824.00	7,824.00	177.06	135.58	90.00	-4,823.43	4,880.55	3,589.68	3,347.12	242.55	14.800	

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - SI VERT ALAUX 26-3 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-IN-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	143.18	-4,087.86	3,060.09	5,106.39					
100.00	100.00	79.00	79.00	0.13	0.61	143.18	-4,087.86	3,060.09	5,106.34	5,105.59	0.75	6,826.677		
200.00	200.00	179.00	179.00	0.49	2.16	143.18	-4,087.86	3,060.09	5,106.34	5,103.69	2.65	1,928.099		
300.00	300.00	279.00	279.00	0.85	3.90	143.18	-4,087.86	3,060.09	5,106.34	5,101.59	4.75	1,074.526		
400.00	399.98	378.98	378.98	1.21	5.65	75.06	-4,087.86	3,060.09	5,105.89	5,099.04	6.85	745.256		
500.00	499.84	478.84	478.84	1.56	7.39	75.15	-4,087.86	3,060.09	5,104.54	5,095.59	8.95	570.343		
600.00	599.45	578.45	578.45	1.93	9.13	75.28	-4,087.86	3,060.09	5,102.31	5,091.26	11.06	461.527		
700.00	698.70	677.70	677.70	2.32	10.86	75.48	-4,087.86	3,060.09	5,099.21	5,086.04	13.17	387.185		
800.00	797.47	776.47	776.47	2.72	12.58	75.72	-4,087.86	3,060.09	5,095.28	5,079.98	15.30	333.077		
900.00	895.62	874.62	874.62	3.16	14.30	76.02	-4,087.86	3,060.09	5,090.54	5,073.10	17.44	291.855		
1,000.00	993.06	972.06	972.06	3.63	16.00	76.36	-4,087.86	3,060.09	5,085.03	5,065.43	19.61	259.348		
1,100.00	1,089.64	1,068.64	1,068.64	4.14	17.68	76.76	-4,087.86	3,060.09	5,078.82	5,057.02	21.80	233.014		
1,200.00	1,185.27	1,164.27	1,164.27	4.70	19.35	77.20	-4,087.86	3,060.09	5,071.95	5,047.94	24.01	211.219		
1,300.00	1,279.82	1,258.82	1,258.82	5.31	21.00	77.69	-4,087.86	3,060.09	5,064.48	5,038.22	26.26	192.861		
1,400.00	1,373.17	1,352.17	1,352.17	5.97	22.63	78.22	-4,087.86	3,060.09	5,056.50	5,027.96	28.54	177.175		
1,500.00	1,465.21	1,444.21	1,444.21	6.69	24.24	78.78	-4,087.86	3,060.09	5,048.07	5,017.21	30.85	163.608		
1,600.00	1,555.84	1,534.84	1,534.84	7.47	25.82	79.39	-4,087.86	3,060.09	5,039.27	5,006.07	33.21	151.755		
1,700.00	1,644.94	1,623.94	1,623.94	8.31	27.37	80.02	-4,087.86	3,060.09	5,030.20	4,994.61	35.60	141.310		
1,800.00	1,732.39	1,711.39	1,711.39	9.23	28.90	80.68	-4,087.86	3,060.09	5,020.95	4,982.93	38.03	132.037		
1,900.00	1,818.11	1,802.89	1,797.11	10.21	30.50	81.37	-4,087.86	3,060.09	5,011.62	4,971.02	40.60	123.446		
2,000.00	1,901.97	1,880.97	1,880.97	11.26	31.86	82.07	-4,087.86	3,060.09	5,002.31	4,959.30	43.01	116.314		
2,100.00	1,983.88	1,962.88	1,962.88	12.38	33.29	82.79	-4,087.86	3,060.09	4,993.13	4,947.57	45.56	109.601		
2,200.00	2,063.74	2,042.74	2,042.74	13.57	34.68	83.52	-4,087.86	3,060.09	4,984.19	4,936.04	48.15	103.519		
2,300.00	2,141.45	2,120.45	2,120.45	14.84	36.04	84.25	-4,087.86	3,060.09	4,975.60	4,924.82	50.78	97.990		
2,327.78	2,162.65	2,141.65	2,141.65	15.21	36.41	84.46	-4,087.86	3,060.09	4,973.29	4,921.78	51.51	96.545		
2,400.00	2,217.51	2,203.49	2,196.51	16.17	37.49	84.87	-4,087.86	3,060.09	4,967.56	4,914.00	53.56	92.751		
2,500.00	2,293.49	2,272.49	2,272.49	17.51	38.69	85.44	-4,087.86	3,060.09	4,960.35	4,904.23	56.11	88.397		
2,600.00	2,369.47	2,348.47	2,348.47	18.86	40.02	86.01	-4,087.86	3,060.09	4,953.97	4,895.17	58.81	84.243		
2,700.00	2,445.45	2,424.45	2,424.45	20.22	41.35	86.58	-4,087.86	3,060.09	4,948.45	4,886.94	61.51	80.454		
2,800.00	2,521.42	2,500.42	2,500.42	21.59	42.67	87.15	-4,087.86	3,060.09	4,943.77	4,879.56	64.21	76.989		
2,900.00	2,597.40	2,576.40	2,576.40	22.97	44.00	87.72	-4,087.86	3,060.09	4,939.95	4,873.02	66.93	73.810		
3,000.00	2,673.38	2,652.38	2,652.38	24.34	45.32	88.30	-4,087.86	3,060.09	4,936.98	4,867.33	69.64	70.888		
3,100.00	2,749.36	2,728.36	2,728.36	25.73	46.65	88.87	-4,087.86	3,060.09	4,934.86	4,862.49	72.36	68.195		
3,200.00	2,825.33	2,804.33	2,804.33	27.11	47.98	89.44	-4,087.86	3,060.09	4,933.60	4,858.51	75.08	65.707		
3,297.13	2,899.13	2,878.13	2,878.13	28.46	49.26	90.00	-4,087.86	3,060.09	4,933.19	4,855.47	77.73	63.468		
3,300.00	2,901.31	2,880.31	2,880.31	28.50	49.30	90.02	-4,087.86	3,060.09	4,933.19	4,855.39	77.81	63.404		
3,400.00	2,977.29	2,956.29	2,956.29	29.90	50.63	90.59	-4,087.86	3,060.09	4,933.65	4,853.12	80.52	61.269		
3,500.00	3,053.27	3,032.27	3,032.27	31.29	51.95	91.16	-4,087.86	3,060.09	4,934.96	4,851.72	83.24	59.285		
3,600.00	3,129.24	3,108.24	3,108.24	32.69	53.28	91.74	-4,087.86	3,060.09	4,937.12	4,851.17	85.95	57.439		
3,700.00	3,205.22	3,184.22	3,184.22	34.08	54.61	92.31	-4,087.86	3,060.09	4,940.14	4,851.48	88.66	55.718		
3,800.00	3,281.20	3,260.20	3,260.20	35.48	55.93	92.88	-4,087.86	3,060.09	4,944.02	4,852.65	91.37	54.111		
3,900.00	3,357.18	3,336.18	3,336.18	36.88	57.26	93.45	-4,087.86	3,060.09	4,948.74	4,854.68	94.07	52.609		
4,000.00	3,433.15	3,412.15	3,412.15	38.29	58.58	94.03	-4,087.86	3,060.09	4,954.32	4,857.56	96.76	51.203		
4,100.00	3,509.13	3,488.13	3,488.13	39.69	59.91	94.60	-4,087.86	3,060.09	4,960.74	4,861.29	99.44	49.885		
4,200.00	3,585.11	3,564.11	3,564.11	41.09	61.24	95.17	-4,087.86	3,060.09	4,968.00	4,865.88	102.12	48.648		
4,300.00	3,661.08	3,640.08	3,640.08	42.50	62.56	95.73	-4,087.86	3,060.09	4,976.10	4,871.31	104.79	47.487		
4,400.00	3,737.06	3,716.06	3,716.06	43.90	63.89	96.30	-4,087.86	3,060.09	4,985.04	4,877.59	107.45	46.394		
4,500.00	3,813.04	3,807.96	3,792.04	45.31	65.49	96.87	-4,087.86	3,060.09	4,994.80	4,884.43	110.38	45.252		
4,600.00	3,889.02	3,868.02	3,868.02	46.71	66.54	97.43	-4,087.86	3,060.09	5,005.40	4,892.66	112.74	44.398		
4,700.00	3,964.99	3,943.99	3,943.99	48.12	67.87	98.00	-4,087.86	3,060.09	5,016.81	4,901.44	115.37	43.485		
4,800.00	4,040.97	4,019.97	4,019.97	49.53	69.19	98.56	-4,087.86	3,060.09	5,029.04	4,911.05	117.99	42.624		
4,900.00	4,116.95	4,104.05	4,095.95	50.94	70.66	99.12	-4,087.86	3,060.09	5,042.07	4,921.34	120.73	41.762		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,192.93	4,171.93	4,171.93	52.35	71.85	99.68	-4,087.86	3,060.09	5,055.91	4,932.73	123.18	41.043		
5,100.00	4,268.90	4,247.90	4,247.90	53.76	73.17	100.23	-4,087.86	3,060.09	5,070.55	4,944.78	125.77	40.317		
5,200.00	4,344.88	4,323.88	4,323.88	55.16	74.50	100.79	-4,087.86	3,060.09	5,085.97	4,957.64	128.33	39.631		
5,300.00	4,420.86	4,400.14	4,399.86	56.57	75.83	101.34	-4,087.86	3,060.09	5,102.18	4,971.29	130.89	38.979		
5,400.00	4,496.84	4,475.84	4,475.84	57.98	77.15	101.89	-4,087.86	3,060.09	5,119.16	4,985.73	133.43	38.366		
5,500.00	4,572.81	4,551.81	4,551.81	59.39	78.48	102.44	-4,087.86	3,060.09	5,136.91	5,000.95	135.96	37.783		
5,600.00	4,648.79	4,627.79	4,627.79	60.81	79.80	102.99	-4,087.86	3,060.09	5,155.42	5,016.94	138.47	37.231		
5,700.00	4,724.77	4,703.77	4,703.77	62.22	81.13	103.53	-4,087.86	3,060.09	5,174.67	5,033.70	140.97	36.707		
5,800.00	4,800.74	4,779.74	4,779.74	63.63	82.45	104.07	-4,087.86	3,060.09	5,194.67	5,051.22	143.46	36.211		
5,900.00	4,876.72	4,855.72	4,855.72	65.04	83.78	104.61	-4,087.86	3,060.09	5,215.41	5,069.48	145.93	35.740		
6,000.00	4,952.70	4,931.70	4,931.70	66.45	85.11	105.14	-4,087.86	3,060.09	5,236.87	5,088.48	148.38	35.293		
6,100.00	5,028.68	5,007.68	5,007.68	67.86	86.43	105.68	-4,087.86	3,060.09	5,259.04	5,108.22	150.82	34.869		
6,200.00	5,104.65	5,083.65	5,083.65	69.27	87.76	106.21	-4,087.86	3,060.09	5,281.92	5,128.68	153.25	34.467		
6,300.00	5,180.63	5,159.63	5,159.63	70.69	89.08	106.74	-4,087.86	3,060.09	5,305.51	5,149.85	155.66	34.084		
6,400.00	5,256.61	5,235.61	5,235.61	72.10	90.41	107.26	-4,087.86	3,060.09	5,329.78	5,171.72	158.05	33.722		
6,500.00	5,332.59	5,311.59	5,311.59	73.51	91.74	107.78	-4,087.86	3,060.09	5,354.72	5,194.29	160.43	33.377		
6,600.00	5,408.56	5,387.56	5,387.56	74.92	93.06	108.30	-4,087.86	3,060.09	5,380.34	5,217.55	162.80	33.049		
6,700.00	5,484.54	5,463.54	5,463.54	76.34	94.39	108.82	-4,087.86	3,060.09	5,406.62	5,241.48	165.15	32.738		
6,800.00	5,560.52	5,539.52	5,539.52	77.75	95.71	109.33	-4,087.86	3,060.09	5,433.55	5,266.07	167.48	32.443		
6,900.00	5,636.50	5,615.50	5,615.50	79.16	97.04	109.84	-4,087.86	3,060.09	5,461.13	5,291.33	169.80	32.162		
7,000.00	5,712.47	5,691.47	5,691.47	80.57	98.36	110.34	-4,087.86	3,060.09	5,489.33	5,316.93	172.40	31.840		
7,100.00	5,788.45	5,767.45	5,767.45	81.99	99.69	110.85	-4,087.86	3,060.09	5,518.16	5,343.76	174.39	31.642		
7,200.00	5,864.43	5,843.43	5,843.43	83.40	101.02	111.35	-4,087.86	3,060.09	5,547.60	5,370.93	176.67	31.401		
7,300.00	5,940.40	5,919.40	5,919.40	84.81	102.34	111.84	-4,087.86	3,060.09	5,577.64	5,398.71	178.93	31.173		
7,400.00	6,016.38	6,004.62	5,995.38	86.23	103.83	112.34	-4,087.86	3,060.09	5,608.27	5,426.94	181.33	30.928		
7,500.00	6,092.36	6,071.36	6,071.36	87.64	105.00	112.82	-4,087.86	3,060.09	5,639.49	5,456.08	183.40	30.749		
7,600.00	6,168.34	6,147.34	6,147.34	89.05	106.32	113.31	-4,087.86	3,060.09	5,671.28	5,485.66	185.62	30.553		
7,700.00	6,244.31	6,223.31	6,223.31	90.47	107.65	113.79	-4,087.86	3,060.09	5,703.63	5,515.81	187.82	30.367		
7,800.00	6,320.29	6,300.71	6,299.29	91.88	109.00	114.27	-4,087.86	3,060.09	5,736.54	5,546.51	190.04	30.187		
7,900.00	6,396.27	6,375.27	6,375.27	93.30	110.30	114.75	-4,087.86	3,060.09	5,769.99	5,577.81	192.18	30.023		
8,000.00	6,472.25	6,451.25	6,451.25	94.71	111.63	115.22	-4,087.86	3,060.09	5,803.98	5,609.64	194.35	29.864		
8,100.00	6,548.22	6,527.22	6,527.22	96.12	112.95	115.69	-4,087.86	3,060.09	5,838.50	5,642.01	196.49	29.713		
8,200.00	6,624.20	6,603.20	6,603.20	97.54	114.28	116.15	-4,087.86	3,060.09	5,873.53	5,674.91	198.63	29.571		
8,300.00	6,700.18	6,679.18	6,679.18	98.95	115.60	116.61	-4,087.86	3,060.09	5,909.07	5,708.32	200.75	29.435		
8,400.00	6,776.16	6,755.16	6,755.16	100.37	116.93	117.07	-4,087.86	3,060.09	5,945.11	5,742.25	202.86	29.307		
8,500.00	6,852.13	6,831.13	6,831.13	101.78	118.26	117.52	-4,087.86	3,060.09	5,981.64	5,776.69	204.95	29.185		
8,600.00	6,928.11	6,907.11	6,907.11	103.20	119.58	117.97	-4,087.86	3,060.09	6,018.65	5,811.61	207.04	29.070		
8,700.00	7,004.09	6,983.09	6,983.09	104.61	120.91	118.41	-4,087.86	3,060.09	6,056.13	5,847.02	209.11	28.962		
8,800.00	7,080.06	7,059.06	7,059.06	106.02	122.24	118.86	-4,087.86	3,060.09	6,094.08	5,882.91	211.17	28.859		
8,900.00	7,156.04	7,135.04	7,135.04	107.44	123.56	119.29	-4,087.86	3,060.09	6,132.48	5,919.26	213.22	28.762		
9,000.00	7,232.02	7,211.02	7,211.02	108.85	124.89	119.73	-4,087.86	3,060.09	6,171.32	5,956.07	215.25	28.670		
9,104.68	7,311.55	7,309.45	7,290.55	110.33	126.61	120.18	-4,087.86	3,060.09	6,212.45	5,994.75	217.71	28.536		
9,150.00	7,346.29	7,325.29	7,325.29	110.97	126.88	114.75	-4,087.86	3,060.09	6,228.79	6,010.48	218.30	28.533		
9,200.00	7,385.15	7,364.15	7,364.15	111.65	127.56	108.53	-4,087.86	3,060.09	6,243.09	6,023.74	219.35	28.462		
9,250.00	7,424.29	7,403.29	7,403.29	112.31	128.24	102.24	-4,087.86	3,060.09	6,253.40	6,032.99	220.41	28.371		
9,300.00	7,463.40	7,442.40	7,442.40	112.93	128.93	96.06	-4,087.86	3,060.09	6,259.66	6,038.18	221.48	28.263		
9,350.00	7,502.19	7,481.19	7,481.19	113.51	129.60	90.18	-4,087.86	3,060.09	6,261.84	6,039.29	222.54	28.138		
9,400.00	7,540.36	7,519.36	7,519.36	114.04	130.27	84.76	-4,087.86	3,060.09	6,259.93	6,036.34	223.58	27.998		
9,450.00	7,577.62	7,556.62	7,556.62	114.53	130.92	79.92	-4,087.86	3,060.09	6,253.95	6,029.36	224.60	27.845		
9,500.00	7,613.70	7,607.30	7,592.70	114.95	131.80	75.71	-4,087.86	3,060.09	6,243.97	6,018.14	225.83	27.649		
9,550.00	7,648.30	7,627.30	7,627.30	115.32	132.15	72.17	-4,087.86	3,060.09	6,230.06	6,003.56	226.50	27.505		
9,600.00	7,681.18	7,660.18	7,660.18	115.63	132.73	69.29	-4,087.86	3,060.09	6,212.33	5,984.95	227.38	27.322		

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

Offset Design SEC 26-T1N-R68W - SI VERT ALAUX 26-3 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,650.00	7,712.08	7,708.92	7,691.08	115.88	133.58	67.06	-4,087.86	3,060.09	6,190.90	5,962.40	228.50	27.094		
9,700.00	7,740.76	7,719.76	7,719.76	116.08	133.77	65.46	-4,087.86	3,060.09	6,165.95	5,937.01	228.93	26.933		
9,750.00	7,767.01	7,746.01	7,746.01	116.23	134.22	64.50	-4,087.86	3,060.09	6,137.63	5,908.03	229.61	26.731		
9,800.00	7,790.63	7,769.63	7,769.63	116.33	134.64	64.18	-4,087.86	3,060.09	6,106.17	5,875.97	230.20	26.525		
9,850.00	7,811.44	7,809.56	7,790.44	116.38	135.33	64.56	-4,087.86	3,060.09	6,071.78	5,840.73	231.06	26.278		
9,900.00	7,829.28	7,808.28	7,808.28	116.38	135.31	65.69	-4,087.86	3,060.09	6,034.72	5,803.55	231.16	26.106		
9,950.00	7,844.01	7,823.01	7,823.01	116.35	135.57	67.73	-4,087.86	3,060.09	5,995.23	5,763.70	231.52	25.895		
10,000.00	7,855.52	7,834.52	7,834.52	116.28	135.77	70.86	-4,087.86	3,060.09	5,953.60	5,721.79	231.80	25.684		
10,050.00	7,863.72	7,842.72	7,842.72	116.18	135.91	75.43	-4,087.86	3,060.09	5,910.12	5,678.11	232.01	25.474		
10,100.00	7,868.56	7,847.56	7,847.56	116.06	136.00	81.88	-4,087.86	3,060.09	5,865.10	5,632.97	232.13	25.266		
10,145.94	7,870.00	7,849.00	7,849.00	115.92	136.02	90.00	-4,087.86	3,060.09	5,822.66	5,590.47	232.18	25.078		
10,200.00	7,870.00	7,849.00	7,849.00	115.76	136.02	90.00	-4,087.86	3,060.09	5,772.24	5,540.03	232.21	24.858		
10,300.00	7,870.00	7,849.00	7,849.00	115.46	136.02	90.00	-4,087.86	3,060.09	5,679.14	5,446.89	232.25	24.452		
10,400.00	7,870.00	7,849.00	7,849.00	115.18	136.02	90.00	-4,087.86	3,060.09	5,586.29	5,353.99	232.30	24.048		
10,500.00	7,870.00	7,849.00	7,849.00	114.91	136.02	90.00	-4,087.86	3,060.09	5,493.69	5,261.34	232.35	23.644		
10,600.00	7,870.00	7,849.00	7,849.00	114.65	136.02	90.00	-4,087.86	3,060.09	5,401.35	5,168.95	232.40	23.242		
10,700.00	7,870.00	7,849.00	7,849.00	114.41	136.02	90.00	-4,087.86	3,060.09	5,309.29	5,076.84	232.45	22.841		
10,800.00	7,870.00	7,849.00	7,849.00	114.17	136.02	90.00	-4,087.86	3,060.09	5,217.52	4,985.02	232.50	22.441		
10,900.00	7,870.00	7,849.00	7,849.00	113.95	136.02	90.00	-4,087.86	3,060.09	5,126.06	4,893.51	232.55	22.043		
11,000.00	7,870.00	7,849.00	7,849.00	113.75	136.02	90.00	-4,087.86	3,060.09	5,034.92	4,802.32	232.61	21.646		
11,100.00	7,870.00	7,849.00	7,849.00	113.55	136.02	90.00	-4,087.86	3,060.09	4,944.13	4,711.47	232.66	21.250		
11,200.00	7,870.00	7,849.00	7,849.00	113.37	136.02	90.00	-4,087.86	3,060.09	4,853.70	4,620.98	232.72	20.857		
11,300.00	7,870.00	7,849.00	7,849.00	113.20	136.02	90.00	-4,087.86	3,060.09	4,763.65	4,530.87	232.78	20.465		
11,400.00	7,870.00	7,849.00	7,849.00	113.04	136.02	90.00	-4,087.86	3,060.09	4,674.01	4,441.17	232.83	20.074		
11,500.00	7,870.00	7,849.00	7,849.00	112.89	136.02	90.00	-4,087.86	3,060.09	4,584.79	4,351.90	232.89	19.686		
11,600.00	7,870.00	7,849.00	7,849.00	112.76	136.02	90.00	-4,087.86	3,060.09	4,496.03	4,263.07	232.96	19.300		
11,700.00	7,870.00	7,849.00	7,849.00	112.64	136.02	90.00	-4,087.86	3,060.09	4,407.75	4,174.73	233.02	18.916		
11,800.00	7,870.00	7,849.00	7,849.00	112.53	136.02	90.00	-4,087.86	3,060.09	4,319.98	4,086.90	233.08	18.534		
11,900.00	7,870.00	7,849.00	7,849.00	112.44	136.02	90.00	-4,087.86	3,060.09	4,232.75	3,999.61	233.14	18.155		
12,000.00	7,870.00	7,849.00	7,849.00	112.36	136.02	90.00	-4,087.86	3,060.09	4,146.10	3,912.89	233.21	17.779		
12,100.00	7,870.00	7,849.00	7,849.00	112.29	136.02	90.00	-4,087.86	3,060.09	4,060.06	3,826.79	233.27	17.405		
12,200.00	7,870.00	7,849.00	7,849.00	112.24	136.02	90.00	-4,087.86	3,060.09	3,974.68	3,741.35	233.33	17.034		
12,300.00	7,870.00	7,849.00	7,849.00	112.20	136.02	90.00	-4,087.86	3,060.09	3,889.99	3,656.60	233.40	16.667		
12,400.00	7,870.00	7,849.00	7,849.00	112.17	136.02	90.00	-4,087.86	3,060.09	3,806.05	3,572.59	233.46	16.303		
12,500.00	7,870.00	7,849.00	7,849.00	112.16	136.02	90.00	-4,087.86	3,060.09	3,722.90	3,489.38	233.52	15.942		
12,600.00	7,870.00	7,849.00	7,849.00	112.17	136.02	90.00	-4,087.86	3,060.09	3,640.60	3,407.02	233.58	15.586		
12,700.00	7,870.00	7,849.00	7,849.00	112.19	136.02	90.00	-4,087.86	3,060.09	3,559.20	3,325.56	233.64	15.234		
12,800.00	7,870.00	7,849.00	7,849.00	112.23	136.02	90.00	-4,087.86	3,060.09	3,478.78	3,245.08	233.70	14.886		
12,900.00	7,870.00	7,849.00	7,849.00	112.28	136.02	90.00	-4,087.86	3,060.09	3,399.39	3,165.65	233.75	14.543		
13,000.00	7,870.00	7,849.00	7,849.00	112.36	136.02	90.00	-4,087.86	3,060.09	3,321.12	3,087.32	233.80	14.205		
13,100.00	7,870.00	7,849.00	7,849.00	112.45	136.02	90.00	-4,087.86	3,060.09	3,244.04	3,010.20	233.84	13.873		
13,200.00	7,870.00	7,849.00	7,849.00	112.56	136.02	90.00	-4,087.86	3,060.09	3,168.25	2,934.37	233.88	13.547		
13,300.00	7,870.00	7,849.00	7,849.00	112.68	136.02	90.00	-4,087.86	3,060.09	3,093.82	2,859.92	233.91	13.227		
13,400.00	7,870.00	7,849.00	7,849.00	112.83	136.02	90.00	-4,087.86	3,060.09	3,020.88	2,786.95	233.93	12.914		
13,500.00	7,870.00	7,849.00	7,849.00	113.00	136.02	90.00	-4,087.86	3,060.09	2,949.52	2,715.58	233.94	12.608		
13,600.00	7,870.00	7,849.00	7,849.00	113.19	136.02	90.00	-4,087.86	3,060.09	2,879.87	2,645.93	233.94	12.310		
13,700.00	7,870.00	7,849.00	7,849.00	113.40	136.02	90.00	-4,087.86	3,060.09	2,812.05	2,578.12	233.93	12.021		
13,800.00	7,870.00	7,849.00	7,849.00	113.63	136.02	90.00	-4,087.86	3,060.09	2,746.20	2,512.29	233.91	11.741		
13,900.00	7,870.00	7,849.00	7,849.00	113.89	136.02	90.00	-4,087.86	3,060.09	2,682.46	2,448.59	233.86	11.470		
14,000.00	7,870.00	7,849.00	7,849.00	114.18	136.02	90.00	-4,087.86	3,060.09	2,620.98	2,387.18	233.80	11.210		
14,100.00	7,870.00	7,849.00	7,849.00	114.48	136.02	90.00	-4,087.86	3,060.09	2,561.93	2,328.22	233.71	10.962		
14,200.00	7,870.00	7,849.00	7,849.00	114.82	136.02	90.00	-4,087.86	3,060.09	2,505.49	2,271.88	233.60	10.725		

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

Offset Design SEC 26-T1N-R68W - SI VERT ALAUX 26-3 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,300.00	7,870.00	7,849.00	7,849.00	115.18	136.02	90.00	-4,087.86	3,060.09	2,451.82	2,218.36	233.47	10.502		
14,400.00	7,870.00	7,849.00	7,849.00	115.57	136.02	90.00	-4,087.86	3,060.09	2,401.13	2,167.82	233.31	10.292		
14,500.00	7,870.00	7,849.00	7,849.00	115.99	136.02	90.00	-4,087.86	3,060.09	2,353.59	2,120.48	233.11	10.096		
14,600.00	7,870.00	7,849.00	7,849.00	116.44	136.02	90.00	-4,087.86	3,060.09	2,309.41	2,076.52	232.88	9.917		
14,700.00	7,870.00	7,849.00	7,849.00	116.92	136.02	90.00	-4,087.86	3,060.09	2,268.77	2,036.15	232.62	9.753		
14,800.00	7,870.00	7,849.00	7,849.00	117.44	136.02	90.00	-4,087.86	3,060.09	2,231.88	1,999.55	232.33	9.607		
14,900.00	7,870.00	7,849.00	7,849.00	117.98	136.02	90.00	-4,087.86	3,060.09	2,198.92	1,966.93	232.00	9.478		
15,000.00	7,870.00	7,849.00	7,849.00	118.56	136.02	90.00	-4,087.86	3,060.09	2,170.08	1,938.44	231.63	9.369		
15,100.00	7,870.00	7,849.00	7,849.00	119.17	136.02	90.00	-4,087.86	3,060.09	2,145.51	1,914.27	231.24	9.278		
15,200.00	7,870.00	7,849.00	7,849.00	119.81	136.02	90.00	-4,087.86	3,060.09	2,125.36	1,894.55	230.81	9.208		
15,300.00	7,870.00	7,849.00	7,849.00	120.48	136.02	90.00	-4,087.86	3,060.09	2,109.77	1,879.41	230.36	9.159		
15,400.00	7,870.00	7,849.00	7,849.00	121.19	136.02	90.00	-4,087.86	3,060.09	2,098.84	1,868.95	229.89	9.130		
15,500.00	7,870.00	7,849.00	7,849.00	121.93	136.02	90.00	-4,087.86	3,060.09	2,092.62	1,863.22	229.40	9.122 SF		
15,580.15	7,870.00	7,849.00	7,849.00	122.55	136.02	90.00	-4,087.86	3,060.09	2,091.09	1,862.08	229.00	9.131 CC, ES		
15,600.00	7,870.00	7,849.00	7,849.00	122.71	136.02	90.00	-4,087.86	3,060.09	2,091.18	1,862.28	228.91	9.136		
15,700.00	7,870.00	7,849.00	7,849.00	123.52	136.02	90.00	-4,087.86	3,060.09	2,094.52	1,866.11	228.41	9.170		
15,800.00	7,870.00	7,849.00	7,849.00	124.36	136.02	90.00	-4,087.86	3,060.09	2,102.61	1,874.70	227.92	9.225		
15,900.00	7,870.00	7,849.00	7,849.00	125.23	136.02	90.00	-4,087.86	3,060.09	2,115.41	1,887.97	227.44	9.301		
16,000.00	7,870.00	7,849.00	7,849.00	126.14	136.02	90.00	-4,087.86	3,060.09	2,132.82	1,905.84	226.98	9.397		
16,100.00	7,870.00	7,849.00	7,849.00	127.07	136.02	90.00	-4,087.86	3,060.09	2,154.74	1,928.20	226.54	9.511		
16,200.00	7,870.00	7,849.00	7,849.00	128.04	136.02	90.00	-4,087.86	3,060.09	2,181.02	1,954.89	226.13	9.645		
16,300.00	7,870.00	7,849.00	7,849.00	129.04	136.02	90.00	-4,087.86	3,060.09	2,211.52	1,985.77	225.76	9.796		
16,400.00	7,870.00	7,849.00	7,849.00	130.06	136.02	90.00	-4,087.86	3,060.09	2,246.06	2,020.65	225.41	9.964		
16,500.00	7,870.00	7,849.00	7,849.00	131.11	136.02	90.00	-4,087.86	3,060.09	2,284.46	2,059.36	225.11	10.148		
16,600.00	7,870.00	7,849.00	7,849.00	132.19	136.02	90.00	-4,087.86	3,060.09	2,326.53	2,101.69	224.84	10.348		
16,700.00	7,870.00	7,849.00	7,849.00	133.29	136.02	90.00	-4,087.86	3,060.09	2,372.07	2,147.47	224.60	10.561		
16,800.00	7,870.00	7,849.00	7,849.00	134.42	136.02	90.00	-4,087.86	3,060.09	2,420.88	2,196.48	224.40	10.788		
16,900.00	7,870.00	7,849.00	7,849.00	135.57	136.02	90.00	-4,087.86	3,060.09	2,472.78	2,248.55	224.23	11.028		
17,000.00	7,870.00	7,849.00	7,849.00	136.75	136.02	90.00	-4,087.86	3,060.09	2,527.57	2,303.48	224.10	11.279		
17,100.00	7,870.00	7,849.00	7,849.00	137.94	136.02	90.00	-4,087.86	3,060.09	2,585.07	2,361.08	223.99	11.541		
17,200.00	7,870.00	7,849.00	7,849.00	139.16	136.02	90.00	-4,087.86	3,060.09	2,645.10	2,421.20	223.91	11.813		
17,300.00	7,870.00	7,849.00	7,849.00	140.39	136.02	90.00	-4,087.86	3,060.09	2,707.49	2,483.65	223.85	12.095		
17,400.00	7,870.00	7,849.00	7,849.00	141.65	136.02	90.00	-4,087.86	3,060.09	2,772.09	2,548.28	223.81	12.386		
17,500.00	7,870.00	7,849.00	7,849.00	142.92	136.02	90.00	-4,087.86	3,060.09	2,838.74	2,614.95	223.79	12.685		
17,600.00	7,870.00	7,849.00	7,849.00	144.21	136.02	90.00	-4,087.86	3,060.09	2,907.31	2,683.52	223.79	12.991		
17,700.00	7,870.00	7,849.00	7,849.00	145.52	136.02	90.00	-4,087.86	3,060.09	2,977.65	2,753.85	223.80	13.305		
17,800.00	7,870.00	7,849.00	7,849.00	146.84	136.02	90.00	-4,087.86	3,060.09	3,049.65	2,825.82	223.83	13.625		
17,900.00	7,870.00	7,849.00	7,849.00	148.18	136.02	90.00	-4,087.86	3,060.09	3,123.19	2,899.33	223.87	13.951		
18,000.00	7,870.00	7,849.00	7,849.00	149.54	136.02	90.00	-4,087.86	3,060.09	3,198.17	2,974.26	223.91	14.283		
18,100.00	7,870.00	7,849.00	7,849.00	150.90	136.02	90.00	-4,087.86	3,060.09	3,274.49	3,050.52	223.97	14.620		
18,200.00	7,870.00	7,849.00	7,849.00	152.28	136.02	90.00	-4,087.86	3,060.09	3,352.05	3,128.02	224.03	14.962		
18,300.00	7,870.00	7,849.00	7,849.00	153.67	136.02	90.00	-4,087.86	3,060.09	3,430.78	3,206.68	224.10	15.309		
18,400.00	7,870.00	7,849.00	7,849.00	155.07	136.02	90.00	-4,087.86	3,060.09	3,510.58	3,286.41	224.17	15.660		
18,500.00	7,870.00	7,849.00	7,849.00	156.49	136.02	90.00	-4,087.86	3,060.09	3,591.40	3,367.15	224.25	16.015		
18,600.00	7,870.00	7,849.00	7,849.00	157.91	136.02	90.00	-4,087.86	3,060.09	3,673.16	3,448.84	224.33	16.374		
18,700.00	7,870.00	7,849.00	7,849.00	159.35	136.02	90.00	-4,087.86	3,060.09	3,755.81	3,531.40	224.41	16.736		
18,800.00	7,870.00	7,849.00	7,849.00	160.79	136.02	90.00	-4,087.86	3,060.09	3,839.28	3,614.79	224.49	17.102		
18,900.00	7,870.00	7,849.00	7,849.00	162.25	136.02	90.00	-4,087.86	3,060.09	3,923.52	3,698.94	224.58	17.471		
19,000.00	7,870.00	7,849.00	7,849.00	163.71	136.02	90.00	-4,087.86	3,060.09	4,008.49	3,783.83	224.67	17.842		
19,100.00	7,870.00	7,849.00	7,849.00	165.18	136.02	90.00	-4,087.86	3,060.09	4,094.14	3,869.38	224.76	18.216		
19,200.00	7,870.00	7,849.00	7,849.00	166.66	136.02	90.00	-4,087.86	3,060.09	4,180.42	3,955.58	224.84	18.593		
19,300.00	7,870.00	7,849.00	7,849.00	168.15	136.02	90.00	-4,087.86	3,060.09	4,267.31	4,042.38	224.93	18.971		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,400.00	7,870.00	7,849.00	7,849.00	169.65	136.02	90.00	-4,087.86	3,060.09	4,354.75	4,129.73	225.02	19.353	
19,500.00	7,870.00	7,849.00	7,849.00	171.15	136.02	90.00	-4,087.86	3,060.09	4,442.73	4,217.62	225.11	19.736	
19,600.00	7,870.00	7,849.00	7,849.00	172.66	136.02	90.00	-4,087.86	3,060.09	4,531.21	4,306.01	225.20	20.121	
19,700.00	7,870.00	7,849.00	7,849.00	174.18	136.02	90.00	-4,087.86	3,060.09	4,620.15	4,394.86	225.29	20.508	
19,800.00	7,870.00	7,849.00	7,849.00	175.70	136.02	90.00	-4,087.86	3,060.09	4,709.54	4,484.16	225.38	20.896	
19,889.26	7,870.00	7,849.00	7,849.00	177.06	136.02	90.00	-4,087.86	3,060.09	4,789.68	4,564.22	225.45	21.245	

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - SI VERT CRANDELL E UNIT 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-IN-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	145.88	-7,866.23	5,329.30	9,501.56					
100.00	100.00	76.00	76.00	0.13	0.58	145.88	-7,866.23	5,329.30	9,501.53	9,500.81	0.72	N/A		
200.00	200.00	176.00	176.00	0.49	2.09	145.88	-7,866.23	5,329.30	9,501.53	9,498.94	2.59	3,672.379		
300.00	300.00	276.00	276.00	0.85	3.84	145.88	-7,866.23	5,329.30	9,501.53	9,496.84	4.69	2,025.439		
400.00	399.98	375.98	375.98	1.21	5.58	77.75	-7,866.23	5,329.30	9,501.16	9,494.37	6.79	1,399.262		
500.00	499.84	475.84	475.84	1.56	7.33	77.81	-7,866.23	5,329.30	9,500.05	9,491.16	8.89	1,088.750		
600.00	599.45	575.45	575.45	1.93	9.07	77.89	-7,866.23	5,329.30	9,498.21	9,487.21	10.99	863.904		
700.00	698.70	674.70	674.70	2.32	10.80	78.02	-7,866.23	5,329.30	9,495.64	9,482.53	13.11	724.319		
800.00	797.47	773.47	773.47	2.72	12.52	78.17	-7,866.23	5,329.30	9,492.38	9,477.14	15.24	622.928		
900.00	895.62	871.62	871.62	3.16	14.24	78.36	-7,866.23	5,329.30	9,488.43	9,471.04	17.38	545.811		
1,000.00	993.06	969.06	969.06	3.63	15.94	78.58	-7,866.23	5,329.30	9,483.82	9,464.27	19.55	485.086		
1,100.00	1,089.64	1,065.64	1,065.64	4.14	17.62	78.83	-7,866.23	5,329.30	9,478.58	9,456.83	21.74	435.958		
1,200.00	1,185.27	1,161.27	1,161.27	4.70	19.29	79.11	-7,866.23	5,329.30	9,472.74	9,448.78	23.96	395.346		
1,300.00	1,279.82	1,255.82	1,255.82	5.31	20.94	79.42	-7,866.23	5,329.30	9,466.34	9,440.13	26.21	361.178		
1,400.00	1,373.17	1,349.17	1,349.17	5.97	22.57	79.76	-7,866.23	5,329.30	9,459.42	9,430.93	28.49	332.011		
1,500.00	1,465.21	1,441.21	1,441.21	6.69	24.18	80.12	-7,866.23	5,329.30	9,452.02	9,421.21	30.81	306.809		
1,600.00	1,555.84	1,531.84	1,531.84	7.47	25.76	80.50	-7,866.23	5,329.30	9,444.20	9,411.04	33.16	284.807		
1,700.00	1,644.94	1,620.94	1,620.94	8.31	27.31	80.91	-7,866.23	5,329.30	9,436.00	9,400.45	35.55	265.431		
1,800.00	1,732.39	1,708.39	1,708.39	9.23	28.84	81.33	-7,866.23	5,329.30	9,427.47	9,389.49	37.98	248.237		
1,900.00	1,818.11	1,805.89	1,794.11	10.21	30.54	81.77	-7,866.23	5,329.30	9,418.68	9,378.03	40.65	231.702		
2,000.00	1,901.97	1,877.97	1,877.97	11.26	31.80	82.23	-7,866.23	5,329.30	9,409.68	9,366.73	42.95	219.086		
2,100.00	1,983.88	1,959.88	1,959.88	12.38	33.23	82.70	-7,866.23	5,329.30	9,400.54	9,355.04	45.49	206.633		
2,200.00	2,063.74	2,039.74	2,039.74	13.57	34.62	83.17	-7,866.23	5,329.30	9,391.31	9,343.23	48.08	195.343		
2,300.00	2,141.45	2,117.45	2,117.45	14.84	35.98	83.65	-7,866.23	5,329.30	9,382.06	9,331.37	50.70	185.068		
2,327.78	2,162.65	2,138.65	2,138.65	15.21	36.35	83.79	-7,866.23	5,329.30	9,379.50	9,328.07	51.43	182.379		
2,400.00	2,217.51	2,206.49	2,193.51	16.17	37.53	84.01	-7,866.23	5,329.30	9,372.96	9,319.39	53.57	174.965		
2,500.00	2,293.49	2,269.49	2,269.49	17.51	38.63	84.31	-7,866.23	5,329.30	9,364.28	9,308.27	56.01	167.185		
2,600.00	2,369.47	2,345.47	2,345.47	18.86	39.96	84.61	-7,866.23	5,329.30	9,356.04	9,297.35	58.69	159.410		
2,700.00	2,445.45	2,421.45	2,421.45	20.22	41.28	84.91	-7,866.23	5,329.30	9,348.25	9,286.87	61.38	152.295		
2,800.00	2,521.42	2,502.58	2,497.42	21.59	42.70	85.22	-7,866.23	5,329.30	9,340.91	9,276.74	64.17	145.562		
2,900.00	2,597.40	2,573.40	2,573.40	22.97	43.94	85.52	-7,866.23	5,329.30	9,334.02	9,267.23	66.79	139.757		
3,000.00	2,673.38	2,649.38	2,649.38	24.34	45.26	85.82	-7,866.23	5,329.30	9,327.57	9,258.07	69.50	134.210		
3,100.00	2,749.36	2,725.36	2,725.36	25.73	46.59	86.12	-7,866.23	5,329.30	9,321.57	9,249.35	72.22	129.077		
3,200.00	2,825.33	2,801.33	2,801.33	27.11	47.92	86.43	-7,866.23	5,329.30	9,316.02	9,241.08	74.94	124.316		
3,300.00	2,901.31	2,877.31	2,877.31	28.50	49.24	86.73	-7,866.23	5,329.30	9,310.92	9,233.26	77.66	119.889		
3,400.00	2,977.29	2,953.29	2,953.29	29.90	50.57	87.04	-7,866.23	5,329.30	9,306.28	9,225.89	80.39	115.763		
3,500.00	3,053.27	3,029.27	3,029.27	31.29	51.89	87.34	-7,866.23	5,329.30	9,302.08	9,218.96	83.12	111.911		
3,600.00	3,129.24	3,105.24	3,105.24	32.69	53.22	87.64	-7,866.23	5,329.30	9,298.34	9,212.49	85.85	108.306		
3,700.00	3,205.22	3,181.22	3,181.22	34.08	54.55	87.95	-7,866.23	5,329.30	9,295.05	9,206.47	88.59	104.928		
3,800.00	3,281.20	3,257.20	3,257.20	35.48	55.87	88.25	-7,866.23	5,329.30	9,292.22	9,200.90	91.32	101.755		
3,900.00	3,357.18	3,333.18	3,333.18	36.88	57.20	88.56	-7,866.23	5,329.30	9,289.84	9,195.78	94.05	98.771		
4,000.00	3,433.15	3,409.15	3,409.15	38.29	58.52	88.86	-7,866.23	5,329.30	9,287.91	9,191.12	96.79	95.959		
4,100.00	3,509.13	3,485.13	3,485.13	39.69	59.85	89.17	-7,866.23	5,329.30	9,286.44	9,186.91	99.53	93.307		
4,200.00	3,585.11	3,561.11	3,561.11	41.09	61.18	89.47	-7,866.23	5,329.30	9,285.42	9,183.16	102.26	90.802		
4,300.00	3,661.08	3,637.08	3,637.08	42.50	62.50	89.78	-7,866.23	5,329.30	9,284.86	9,179.87	105.00	88.431		
4,373.15	3,716.66	3,707.34	3,692.66	43.52	63.73	90.00	-7,866.23	5,329.30	9,284.74	9,177.49	107.25	86.570		
4,400.00	3,737.06	3,713.06	3,713.06	43.90	63.83	90.08	-7,866.23	5,329.30	9,284.76	9,177.03	107.73	86.186		
4,500.00	3,813.04	3,789.04	3,789.04	45.31	65.15	90.39	-7,866.23	5,329.30	9,285.11	9,174.65	110.46	84.057		
4,600.00	3,889.02	3,865.02	3,865.02	46.71	66.48	90.69	-7,866.23	5,329.30	9,285.91	9,172.72	113.19	82.036		
4,700.00	3,964.99	3,940.99	3,940.99	48.12	67.81	91.00	-7,866.23	5,329.30	9,287.17	9,171.25	115.92	80.115		
4,800.00	4,040.97	4,016.97	4,016.97	49.53	69.13	91.30	-7,866.23	5,329.30	9,288.89	9,170.24	118.65	78.287		
4,900.00	4,116.95	4,107.05	4,092.95	50.94	70.70	91.61	-7,866.23	5,329.30	9,291.06	9,169.43	121.62	76.392		

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

Offset Design SEC 26-T1N-R68W - SI VERT CRANDELL E UNIT 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,192.93	4,168.93	4,168.93	52.35	71.78	91.91	-7,866.23	5,329.30	9,293.68	9,169.58	124.10	74.888		
5,100.00	4,268.90	4,244.90	4,244.90	53.76	73.11	92.21	-7,866.23	5,329.30	9,296.76	9,169.94	126.82	73.305		
5,200.00	4,344.88	4,320.88	4,320.88	55.16	74.44	92.52	-7,866.23	5,329.30	9,300.29	9,170.75	129.54	71.794		
5,300.00	4,420.86	4,403.14	4,396.86	56.57	75.87	92.82	-7,866.23	5,329.30	9,304.28	9,171.91	132.37	70.291		
5,400.00	4,496.84	4,472.84	4,472.84	57.98	77.09	93.13	-7,866.23	5,329.30	9,308.72	9,173.74	134.97	68.969		
5,500.00	4,572.81	4,548.81	4,548.81	59.39	78.41	93.43	-7,866.23	5,329.30	9,313.60	9,175.92	137.68	67.647		
5,600.00	4,648.79	4,624.79	4,624.79	60.81	79.74	93.73	-7,866.23	5,329.30	9,318.94	9,178.56	140.39	66.381		
5,700.00	4,724.77	4,700.77	4,700.77	62.22	81.07	94.04	-7,866.23	5,329.30	9,324.73	9,181.65	143.09	65.168		
5,800.00	4,800.74	4,776.74	4,776.74	63.63	82.39	94.34	-7,866.23	5,329.30	9,330.97	9,185.19	145.79	64.004		
5,900.00	4,876.72	4,852.72	4,852.72	65.04	83.72	94.64	-7,866.23	5,329.30	9,337.66	9,189.18	148.48	62.887		
6,000.00	4,952.70	4,928.70	4,928.70	66.45	85.04	94.95	-7,866.23	5,329.30	9,344.80	9,193.63	151.17	61.815		
6,100.00	5,028.68	5,004.68	5,004.68	67.86	86.37	95.25	-7,866.23	5,329.30	9,352.38	9,198.52	153.86	60.785		
6,200.00	5,104.65	5,080.65	5,080.65	69.27	87.70	95.55	-7,866.23	5,329.30	9,360.41	9,203.87	156.54	59.795		
6,300.00	5,180.63	5,156.63	5,156.63	70.69	89.02	95.85	-7,866.23	5,329.30	9,368.88	9,209.67	159.22	58.843		
6,400.00	5,256.61	5,232.61	5,232.61	72.10	90.35	96.15	-7,866.23	5,329.30	9,377.80	9,215.91	161.89	57.927		
6,500.00	5,332.59	5,308.59	5,308.59	73.51	91.67	96.46	-7,866.23	5,329.30	9,387.16	9,222.60	164.56	57.045		
6,600.00	5,408.56	5,384.56	5,384.56	74.92	93.00	96.76	-7,866.23	5,329.30	9,396.95	9,229.74	167.22	56.196		
6,700.00	5,484.54	5,460.54	5,460.54	76.34	94.33	97.06	-7,866.23	5,329.30	9,407.19	9,237.32	169.88	55.377		
6,800.00	5,560.52	5,536.52	5,536.52	77.75	95.65	97.36	-7,866.23	5,329.30	9,417.87	9,245.34	172.53	54.588		
6,900.00	5,636.50	5,612.50	5,612.50	79.16	96.98	97.66	-7,866.23	5,329.30	9,428.98	9,253.81	175.17	53.827		
7,000.00	5,712.47	5,688.47	5,688.47	80.57	98.31	97.96	-7,866.23	5,329.30	9,440.52	9,262.71	177.81	53.092		
7,100.00	5,788.45	5,764.45	5,764.45	81.99	99.63	98.26	-7,866.23	5,329.30	9,452.50	9,272.06	180.45	52.384		
7,200.00	5,864.43	5,840.43	5,840.43	83.40	100.96	98.55	-7,866.23	5,329.30	9,464.91	9,281.84	183.08	51.700		
7,300.00	5,940.40	5,916.40	5,916.40	84.81	102.28	98.85	-7,866.23	5,329.30	9,477.76	9,292.06	185.70	51.039		
7,400.00	6,016.38	6,007.62	5,992.38	86.23	103.88	99.15	-7,866.23	5,329.30	9,491.02	9,302.44	188.58	50.329		
7,500.00	6,092.36	6,068.36	6,068.36	87.64	104.94	99.45	-7,866.23	5,329.30	9,504.72	9,313.80	190.92	49.783		
7,600.00	6,168.34	6,144.34	6,144.34	89.05	106.26	99.74	-7,866.23	5,329.30	9,518.84	9,325.31	193.53	49.186		
7,700.00	6,244.31	6,220.31	6,220.31	90.47	107.59	100.04	-7,866.23	5,329.30	9,533.38	9,337.26	196.12	48.609		
7,800.00	6,320.29	6,303.71	6,296.29	91.88	109.04	100.33	-7,866.23	5,329.30	9,548.34	9,349.50	198.84	48.020		
7,900.00	6,396.27	6,372.27	6,372.27	93.30	110.24	100.63	-7,866.23	5,329.30	9,563.72	9,362.43	201.30	47.511		
8,000.00	6,472.25	6,448.25	6,448.25	94.71	111.57	100.92	-7,866.23	5,329.30	9,579.52	9,375.65	203.87	46.988		
8,100.00	6,548.22	6,524.22	6,524.22	96.12	112.89	101.22	-7,866.23	5,329.30	9,595.73	9,389.29	206.44	46.481		
8,200.00	6,624.20	6,600.20	6,600.20	97.54	114.22	101.51	-7,866.23	5,329.30	9,612.36	9,403.35	209.01	45.991		
8,300.00	6,700.18	6,676.18	6,676.18	98.95	115.54	101.80	-7,866.23	5,329.30	9,629.39	9,417.83	211.56	45.516		
8,400.00	6,776.16	6,752.16	6,752.16	100.37	116.87	102.09	-7,866.23	5,329.30	9,646.84	9,432.73	214.11	45.056		
8,500.00	6,852.13	6,828.13	6,828.13	101.78	118.20	102.38	-7,866.23	5,329.30	9,664.69	9,448.04	216.65	44.610		
8,600.00	6,928.11	6,904.11	6,904.11	103.20	119.52	102.67	-7,866.23	5,329.30	9,682.94	9,463.75	219.18	44.177		
8,700.00	7,004.09	6,980.09	6,980.09	104.61	120.85	102.96	-7,866.23	5,329.30	9,701.59	9,479.88	221.71	43.758		
8,800.00	7,080.06	7,056.06	7,056.06	106.02	122.17	103.25	-7,866.23	5,329.30	9,720.65	9,496.42	224.23	43.351		
8,900.00	7,156.04	7,132.04	7,132.04	107.44	123.50	103.54	-7,866.23	5,329.30	9,740.10	9,513.36	226.74	42.957		
9,000.00	7,232.02	7,208.02	7,208.02	108.85	124.83	103.83	-7,866.23	5,329.30	9,759.94	9,530.70	229.24	42.574		
9,104.68	7,311.55	7,287.55	7,287.55	110.33	126.21	104.13	-7,866.23	5,329.30	9,781.13	9,549.28	231.86	42.186		
9,150.00	7,346.29	7,322.29	7,322.29	110.97	126.82	99.06	-7,866.23	5,329.30	9,788.68	9,555.69	233.00	42.012		
9,200.00	7,385.15	7,361.15	7,361.15	111.65	127.50	93.13	-7,866.23	5,329.30	9,792.98	9,558.72	234.27	41.803		
9,250.00	7,424.29	7,400.29	7,400.29	112.31	128.18	86.99	-7,866.23	5,329.30	9,793.03	9,557.49	235.54	41.577		
9,300.00	7,463.40	7,439.40	7,439.40	112.93	128.86	80.85	-7,866.23	5,329.30	9,788.83	9,552.02	236.80	41.337		
9,350.00	7,502.19	7,478.19	7,478.19	113.51	129.54	74.91	-7,866.23	5,329.30	9,780.39	9,542.35	238.05	41.086		
9,400.00	7,540.36	7,516.36	7,516.36	114.04	130.21	69.31	-7,866.23	5,329.30	9,767.80	9,528.54	239.26	40.826		
9,450.00	7,577.62	7,553.62	7,553.62	114.53	130.86	64.17	-7,866.23	5,329.30	9,751.12	9,510.70	240.42	40.559		
9,500.00	7,613.70	7,589.70	7,589.70	114.95	131.49	59.55	-7,866.23	5,329.30	9,730.48	9,488.95	241.53	40.287		
9,550.00	7,648.30	7,624.30	7,624.30	115.32	132.09	55.46	-7,866.23	5,329.30	9,706.03	9,463.45	242.58	40.012		
9,600.00	7,681.18	7,657.18	7,657.18	115.63	132.67	51.89	-7,866.23	5,329.30	9,677.94	9,434.39	243.56	39.736		

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

Offset Design SEC 26-T1N-R68W - SI VERT CRANDELL E UNIT 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,650.00	7,712.08	7,688.08	7,688.08	115.88	133.20	48.78	-7,866.23	5,329.30	9,646.42	9,401.96	244.46	39.460		
9,700.00	7,740.76	7,716.76	7,716.76	116.08	133.71	46.09	-7,866.23	5,329.30	9,611.69	9,366.41	245.28	39.187		
9,750.00	7,767.01	7,743.01	7,743.01	116.23	134.16	43.78	-7,866.23	5,329.30	9,574.00	9,327.98	246.02	38.916		
9,800.00	7,790.63	7,766.63	7,766.63	116.33	134.58	41.78	-7,866.23	5,329.30	9,533.63	9,286.97	246.66	38.650		
9,850.00	7,811.44	7,787.44	7,787.44	116.38	134.94	40.04	-7,866.23	5,329.30	9,490.87	9,243.65	247.22	38.390		
9,900.00	7,829.28	7,805.28	7,805.28	116.38	135.25	38.47	-7,866.23	5,329.30	9,446.04	9,198.36	247.69	38.137		
9,950.00	7,844.01	7,820.01	7,820.01	116.35	135.51	36.96	-7,866.23	5,329.30	9,399.47	9,151.41	248.06	37.892		
10,000.00	7,855.52	7,831.52	7,831.52	116.28	135.71	35.28	-7,866.23	5,329.30	9,351.51	9,103.16	248.34	37.655		
10,050.00	7,863.72	7,839.72	7,839.72	116.18	135.85	32.69	-7,866.23	5,329.30	9,302.50	9,053.96	248.54	37.429		
10,100.00	7,868.56	7,844.56	7,844.56	116.06	135.94	24.92	-7,866.23	5,329.30	9,252.83	9,004.19	248.65	37.213		
10,145.94	7,870.00	7,846.00	7,846.00	115.92	135.96	-90.00	-7,866.23	5,329.30	9,206.93	8,958.25	248.67	37.024		
10,200.00	7,870.00	7,846.00	7,846.00	115.76	135.96	-90.00	-7,866.23	5,329.30	9,152.88	8,904.22	248.66	36.809		
10,300.00	7,870.00	7,846.00	7,846.00	115.46	135.96	-90.00	-7,866.23	5,329.30	9,052.90	8,804.26	248.64	36.410		
10,400.00	7,870.00	7,846.00	7,846.00	115.18	135.96	-90.00	-7,866.23	5,329.30	8,952.92	8,704.31	248.62	36.011		
10,500.00	7,870.00	7,846.00	7,846.00	114.91	135.96	-90.00	-7,866.23	5,329.30	8,852.95	8,604.35	248.60	35.612		
10,600.00	7,870.00	7,846.00	7,846.00	114.65	135.96	-90.00	-7,866.23	5,329.30	8,752.97	8,504.39	248.58	35.213		
10,700.00	7,870.00	7,846.00	7,846.00	114.41	135.96	-90.00	-7,866.23	5,329.30	8,652.99	8,404.44	248.55	34.813		
10,800.00	7,870.00	7,846.00	7,846.00	114.17	135.96	-90.00	-7,866.23	5,329.30	8,553.02	8,304.49	248.53	34.414		
10,900.00	7,870.00	7,846.00	7,846.00	113.95	135.96	-90.00	-7,866.23	5,329.30	8,453.04	8,204.54	248.51	34.015		
11,000.00	7,870.00	7,846.00	7,846.00	113.75	135.96	-90.00	-7,866.23	5,329.30	8,353.07	8,104.58	248.49	33.616		
11,100.00	7,870.00	7,846.00	7,846.00	113.55	135.96	-90.00	-7,866.23	5,329.30	8,253.10	8,004.63	248.46	33.217		
11,200.00	7,870.00	7,846.00	7,846.00	113.37	135.96	-90.00	-7,866.23	5,329.30	8,153.12	7,904.68	248.44	32.817		
11,300.00	7,870.00	7,846.00	7,846.00	113.20	135.96	-90.00	-7,866.23	5,329.30	8,053.15	7,804.73	248.42	32.418		
11,400.00	7,870.00	7,846.00	7,846.00	113.04	135.96	-90.00	-7,866.23	5,329.30	7,953.18	7,704.79	248.39	32.019		
11,500.00	7,870.00	7,846.00	7,846.00	112.89	135.96	-90.00	-7,866.23	5,329.30	7,853.21	7,604.84	248.37	31.619		
11,600.00	7,870.00	7,846.00	7,846.00	112.76	135.96	-90.00	-7,866.23	5,329.30	7,753.24	7,504.89	248.34	31.220		
11,700.00	7,870.00	7,846.00	7,846.00	112.64	135.96	-90.00	-7,866.23	5,329.30	7,653.27	7,404.95	248.32	30.820		
11,800.00	7,870.00	7,846.00	7,846.00	112.53	135.96	-90.00	-7,866.23	5,329.30	7,553.30	7,305.01	248.29	30.421		
11,900.00	7,870.00	7,846.00	7,846.00	112.44	135.96	-90.00	-7,866.23	5,329.30	7,453.33	7,205.07	248.27	30.021		
12,000.00	7,870.00	7,846.00	7,846.00	112.36	135.96	-90.00	-7,866.23	5,329.30	7,353.37	7,105.13	248.24	29.622		
12,100.00	7,870.00	7,846.00	7,846.00	112.29	135.96	-90.00	-7,866.23	5,329.30	7,253.40	7,005.19	248.21	29.222		
12,200.00	7,870.00	7,846.00	7,846.00	112.24	135.96	-90.00	-7,866.23	5,329.30	7,153.44	6,905.25	248.19	28.823		
12,300.00	7,870.00	7,846.00	7,846.00	112.20	135.96	-90.00	-7,866.23	5,329.30	7,053.47	6,805.31	248.16	28.423		
12,400.00	7,870.00	7,846.00	7,846.00	112.17	135.96	-90.00	-7,866.23	5,329.30	6,953.51	6,705.38	248.13	28.024		
12,500.00	7,870.00	7,846.00	7,846.00	112.16	135.96	-90.00	-7,866.23	5,329.30	6,853.55	6,605.45	248.10	27.624		
12,600.00	7,870.00	7,846.00	7,846.00	112.17	135.96	-90.00	-7,866.23	5,329.30	6,753.59	6,505.52	248.07	27.225		
12,700.00	7,870.00	7,846.00	7,846.00	112.19	135.96	-90.00	-7,866.23	5,329.30	6,653.63	6,405.59	248.04	26.825		
12,800.00	7,870.00	7,846.00	7,846.00	112.23	135.96	-90.00	-7,866.23	5,329.30	6,553.67	6,305.66	248.01	26.425		
12,900.00	7,870.00	7,846.00	7,846.00	112.28	135.96	-90.00	-7,866.23	5,329.30	6,453.71	6,205.74	247.98	26.026		
13,000.00	7,870.00	7,846.00	7,846.00	112.36	135.96	-90.00	-7,866.23	5,329.30	6,353.76	6,105.81	247.94	25.626		
13,100.00	7,870.00	7,846.00	7,846.00	112.45	135.96	-90.00	-7,866.23	5,329.30	6,253.80	6,005.89	247.91	25.226		
13,200.00	7,870.00	7,846.00	7,846.00	112.56	135.96	-90.00	-7,866.23	5,329.30	6,153.85	5,905.98	247.87	24.827		
13,300.00	7,870.00	7,846.00	7,846.00	112.68	135.96	-90.00	-7,866.23	5,329.30	6,053.90	5,806.06	247.84	24.427		
13,400.00	7,870.00	7,846.00	7,846.00	112.83	135.96	-90.00	-7,866.23	5,329.30	5,953.95	5,706.15	247.80	24.027		
13,500.00	7,870.00	7,846.00	7,846.00	113.00	135.96	-90.00	-7,866.23	5,329.30	5,854.00	5,606.24	247.76	23.628		
13,600.00	7,870.00	7,846.00	7,846.00	113.19	135.96	-90.00	-7,866.23	5,329.30	5,754.05	5,506.33	247.72	23.228		
13,700.00	7,870.00	7,846.00	7,846.00	113.40	135.96	-90.00	-7,866.23	5,329.30	5,654.11	5,406.43	247.68	22.828		
13,800.00	7,870.00	7,846.00	7,846.00	113.63	135.96	-90.00	-7,866.23	5,329.30	5,554.17	5,306.53	247.64	22.429		
13,900.00	7,870.00	7,846.00	7,846.00	113.89	135.96	-90.00	-7,866.23	5,329.30	5,454.23	5,206.64	247.59	22.029		
14,000.00	7,870.00	7,846.00	7,846.00	114.18	135.96	-90.00	-7,866.23	5,329.30	5,354.29	5,106.74	247.55	21.629		
14,100.00	7,870.00	7,846.00	7,846.00	114.48	135.96	-90.00	-7,866.23	5,329.30	5,254.36	5,006.86	247.50	21.230		
14,200.00	7,870.00	7,846.00	7,846.00	114.82	135.96	-90.00	-7,866.23	5,329.30	5,154.42	4,906.97	247.45	20.830		

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

Offset Design SEC 26-T1N-R68W - SI VERT CRANDELL E UNIT 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,300.00	7,870.00	7,846.00	7,846.00	115.18	135.96	-90.00	-7,866.23	5,329.30	5,054.49	4,807.09	247.40	20.430		
14,400.00	7,870.00	7,846.00	7,846.00	115.57	135.96	-90.00	-7,866.23	5,329.30	4,954.57	4,707.22	247.35	20.031		
14,500.00	7,870.00	7,846.00	7,846.00	115.99	135.96	-90.00	-7,866.23	5,329.30	4,854.64	4,607.35	247.29	19.631		
14,600.00	7,870.00	7,846.00	7,846.00	116.44	135.96	-90.00	-7,866.23	5,329.30	4,754.72	4,507.49	247.23	19.232		
14,700.00	7,870.00	7,846.00	7,846.00	116.92	135.96	-90.00	-7,866.23	5,329.30	4,654.80	4,407.63	247.17	18.832		
14,800.00	7,870.00	7,846.00	7,846.00	117.44	135.96	-90.00	-7,866.23	5,329.30	4,554.89	4,307.78	247.11	18.433		
14,900.00	7,870.00	7,846.00	7,846.00	117.98	135.96	-90.00	-7,866.23	5,329.30	4,454.98	4,207.93	247.05	18.033		
15,000.00	7,870.00	7,846.00	7,846.00	118.56	135.96	-90.00	-7,866.23	5,329.30	4,355.07	4,108.09	246.98	17.634		
15,100.00	7,870.00	7,846.00	7,846.00	119.17	135.96	-90.00	-7,866.23	5,329.30	4,255.17	4,008.27	246.90	17.234		
15,200.00	7,870.00	7,846.00	7,846.00	119.81	135.96	-90.00	-7,866.23	5,329.30	4,155.27	3,908.44	246.83	16.835		
15,300.00	7,870.00	7,846.00	7,846.00	120.48	135.96	-90.00	-7,866.23	5,329.30	4,055.38	3,808.63	246.75	16.435		
15,400.00	7,870.00	7,846.00	7,846.00	121.19	135.96	-90.00	-7,866.23	5,329.30	3,955.49	3,708.83	246.67	16.036		
15,500.00	7,870.00	7,846.00	7,846.00	121.93	135.96	-90.00	-7,866.23	5,329.30	3,855.61	3,609.04	246.58	15.637		
15,600.00	7,870.00	7,846.00	7,846.00	122.71	135.96	-90.00	-7,866.23	5,329.30	3,755.74	3,509.26	246.48	15.237		
15,700.00	7,870.00	7,846.00	7,846.00	123.52	135.96	-90.00	-7,866.23	5,329.30	3,655.87	3,409.49	246.39	14.838		
15,800.00	7,870.00	7,846.00	7,846.00	124.36	135.96	-90.00	-7,866.23	5,329.30	3,556.01	3,309.73	246.28	14.439		
15,900.00	7,870.00	7,846.00	7,846.00	125.23	135.96	-90.00	-7,866.23	5,329.30	3,456.16	3,209.99	246.17	14.040		
16,000.00	7,870.00	7,846.00	7,846.00	126.14	135.96	-90.00	-7,866.23	5,329.30	3,356.32	3,110.26	246.05	13.641		
16,100.00	7,870.00	7,846.00	7,846.00	127.07	135.96	-90.00	-7,866.23	5,329.30	3,256.48	3,010.55	245.93	13.241		
16,200.00	7,870.00	7,846.00	7,846.00	128.04	135.96	-90.00	-7,866.23	5,329.30	3,156.66	2,910.86	245.80	12.843		
16,300.00	7,870.00	7,846.00	7,846.00	129.04	135.96	-90.00	-7,866.23	5,329.30	3,056.85	2,811.19	245.66	12.444		
16,400.00	7,870.00	7,846.00	7,846.00	130.06	135.96	-90.00	-7,866.23	5,329.30	2,957.05	2,711.55	245.50	12.045		
16,500.00	7,870.00	7,846.00	7,846.00	131.11	135.96	-90.00	-7,866.23	5,329.30	2,857.27	2,611.92	245.34	11.646		
16,600.00	7,870.00	7,846.00	7,846.00	132.19	135.96	-90.00	-7,866.23	5,329.30	2,757.50	2,512.33	245.17	11.247		
16,700.00	7,870.00	7,846.00	7,846.00	133.29	135.96	-90.00	-7,866.23	5,329.30	2,657.75	2,412.77	244.98	10.849		
16,800.00	7,870.00	7,846.00	7,846.00	134.42	135.96	-90.00	-7,866.23	5,329.30	2,558.02	2,313.24	244.78	10.450		
16,900.00	7,870.00	7,846.00	7,846.00	135.57	135.96	-90.00	-7,866.23	5,329.30	2,458.31	2,213.75	244.56	10.052		
17,000.00	7,870.00	7,846.00	7,846.00	136.75	135.96	-90.00	-7,866.23	5,329.30	2,358.62	2,114.30	244.32	9.654		
17,100.00	7,870.00	7,846.00	7,846.00	137.94	135.96	-90.00	-7,866.23	5,329.30	2,258.96	2,014.90	244.06	9.256		
17,200.00	7,870.00	7,846.00	7,846.00	139.16	135.96	-90.00	-7,866.23	5,329.30	2,159.34	1,915.55	243.78	8.858		
17,300.00	7,870.00	7,846.00	7,846.00	140.39	135.96	-90.00	-7,866.23	5,329.30	2,059.75	1,816.27	243.47	8.460		
17,400.00	7,870.00	7,846.00	7,846.00	141.65	135.96	-90.00	-7,866.23	5,329.30	1,960.20	1,717.07	243.13	8.062		
17,500.00	7,870.00	7,846.00	7,846.00	142.92	135.96	-90.00	-7,866.23	5,329.30	1,860.70	1,617.94	242.76	7.665		
17,600.00	7,870.00	7,846.00	7,846.00	144.21	135.96	-90.00	-7,866.23	5,329.30	1,761.25	1,518.92	242.34	7.268		
17,700.00	7,870.00	7,846.00	7,846.00	145.52	135.96	-90.00	-7,866.23	5,329.30	1,661.88	1,420.00	241.87	6.871		
17,800.00	7,870.00	7,846.00	7,846.00	146.84	135.96	-90.00	-7,866.23	5,329.30	1,562.58	1,321.23	241.35	6.474		
17,900.00	7,870.00	7,846.00	7,846.00	148.18	135.96	-90.00	-7,866.23	5,329.30	1,463.38	1,222.62	240.76	6.078		
18,000.00	7,870.00	7,846.00	7,846.00	149.54	135.96	-90.00	-7,866.23	5,329.30	1,364.30	1,124.20	240.10	5.682		
18,100.00	7,870.00	7,846.00	7,846.00	150.90	135.96	-90.00	-7,866.23	5,329.30	1,265.36	1,026.03	239.33	5.287		
18,200.00	7,870.00	7,846.00	7,846.00	152.28	135.96	-90.00	-7,866.23	5,329.30	1,166.60	928.15	238.45	4.892		
18,300.00	7,870.00	7,846.00	7,846.00	153.67	135.96	-90.00	-7,866.23	5,329.30	1,068.07	830.64	237.43	4.498		
18,400.00	7,870.00	7,846.00	7,846.00	155.07	135.96	-90.00	-7,866.23	5,329.30	969.84	733.61	236.23	4.105		
18,500.00	7,870.00	7,846.00	7,846.00	156.49	135.96	-90.00	-7,866.23	5,329.30	872.02	637.19	234.83	3.713		
18,600.00	7,870.00	7,846.00	7,846.00	157.91	135.96	-90.00	-7,866.23	5,329.30	774.75	541.59	233.16	3.323		
18,700.00	7,870.00	7,846.00	7,846.00	159.35	135.96	-90.00	-7,866.23	5,329.30	678.28	447.09	231.18	2.934		
18,800.00	7,870.00	7,846.00	7,846.00	160.79	135.96	-90.00	-7,866.23	5,329.30	582.99	354.09	228.90	2.547		
18,900.00	7,870.00	7,846.00	7,846.00	162.25	135.96	-90.00	-7,866.23	5,329.30	489.59	263.11	226.48	2.162		
19,000.00	7,870.00	7,846.00	7,846.00	163.71	135.96	-90.00	-7,866.23	5,329.30	399.40	174.70	224.70	1.777		
19,100.00	7,870.00	7,846.00	7,846.00	165.18	135.96	-90.00	-7,866.23	5,329.30	315.19	88.80	226.39	1.392 Level 3		
19,200.00	7,870.00	7,846.00	7,846.00	166.66	135.96	-90.00	-7,866.23	5,329.30	243.24	3.87	239.37	1.016 Level 2		
19,300.00	7,870.00	7,846.00	7,846.00	168.15	135.96	-90.00	-7,866.23	5,329.30	197.46	-74.18	271.63	0.727 Level 1		
19,350.89	7,870.00	7,846.00	7,846.00	168.91	135.96	-90.00	-7,866.23	5,329.30	190.79	-99.11	289.90	0.658 Level 1, 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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT CRANDELL E UNIT 2 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,870.00	7,846.00	7,846.00	169.65	135.96	-90.00	-7,866.23	5,329.30	197.00	-104.80	301.80	0.653 Level 1, ES, SF	
19,500.00	7,870.00	7,846.00	7,846.00	171.15	135.96	-90.00	-7,866.23	5,329.30	242.14	-63.20	305.35	0.793 Level 1	
19,600.00	7,870.00	7,846.00	7,846.00	172.66	135.96	-90.00	-7,866.23	5,329.30	313.77	16.49	297.29	1.055 Level 2	
19,700.00	7,870.00	7,846.00	7,846.00	174.18	135.96	-90.00	-7,866.23	5,329.30	397.84	108.82	289.02	1.376 Level 3	
19,800.00	7,870.00	7,846.00	7,846.00	175.70	135.96	-90.00	-7,866.23	5,329.30	487.95	205.35	282.60	1.727	
19,889.26	7,870.00	7,846.00	7,846.00	177.06	135.96	-90.00	-7,866.23	5,329.30	571.17	292.93	278.24	2.053	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	149.24	-5,431.33	3,232.50	6,320.51					
100.00	100.00	79.00	79.00	0.13	0.60	149.24	-5,431.33	3,232.50	6,320.47	6,319.74	0.73	8,608.533		
200.00	200.00	179.00	179.00	0.49	2.14	149.24	-5,431.33	3,232.50	6,320.47	6,317.84	2.63	2,402.374		
300.00	300.00	279.00	279.00	0.85	3.88	149.24	-5,431.33	3,232.50	6,320.47	6,315.74	4.73	1,334.917		
400.00	399.98	378.98	378.98	1.21	5.63	81.12	-5,431.33	3,232.50	6,320.20	6,313.37	6.83	924.848		
500.00	499.84	478.84	478.84	1.56	7.37	81.18	-5,431.33	3,232.50	6,319.40	6,310.46	8.93	707.449		
600.00	599.45	578.45	578.45	1.93	9.11	81.28	-5,431.33	3,232.50	6,318.06	6,307.02	11.04	572.364		
700.00	698.70	677.70	677.70	2.32	10.84	81.43	-5,431.33	3,232.50	6,316.22	6,303.06	13.15	480.158		
800.00	797.47	776.47	776.47	2.72	12.57	81.61	-5,431.33	3,232.50	6,313.88	6,298.60	15.28	413.099		
900.00	895.62	874.62	874.62	3.16	14.28	81.84	-5,431.33	3,232.50	6,311.08	6,293.65	17.43	362.046		
1,000.00	993.06	972.06	972.06	3.63	15.98	82.10	-5,431.33	3,232.50	6,307.86	6,288.26	19.60	321.815		
1,100.00	1,089.64	1,068.64	1,068.64	4.14	17.67	82.39	-5,431.33	3,232.50	6,304.25	6,282.45	21.80	289.248		
1,200.00	1,185.27	1,164.27	1,164.27	4.70	19.33	82.73	-5,431.33	3,232.50	6,300.29	6,276.27	24.02	262.314		
1,300.00	1,279.82	1,258.82	1,258.82	5.31	20.98	83.09	-5,431.33	3,232.50	6,296.04	6,269.77	26.27	239.647		
1,400.00	1,373.17	1,352.17	1,352.17	5.97	22.61	83.48	-5,431.33	3,232.50	6,291.56	6,263.00	28.56	220.295		
1,500.00	1,465.21	1,444.21	1,444.21	6.69	24.22	83.90	-5,431.33	3,232.50	6,286.90	6,256.01	30.88	203.573		
1,600.00	1,555.84	1,534.84	1,534.84	7.47	25.80	84.34	-5,431.33	3,232.50	6,282.13	6,248.88	33.24	188.977		
1,700.00	1,644.94	1,623.94	1,623.94	8.31	27.36	84.80	-5,431.33	3,232.50	6,277.31	6,241.67	35.64	176.126		
1,800.00	1,732.39	1,711.39	1,711.39	9.23	28.88	85.29	-5,431.33	3,232.50	6,272.53	6,234.45	38.08	164.728		
1,900.00	1,818.11	1,802.89	1,797.11	10.21	30.48	85.78	-5,431.33	3,232.50	6,267.86	6,227.21	40.66	154.171		
2,000.00	1,901.97	1,880.97	1,880.97	11.26	31.84	86.29	-5,431.33	3,232.50	6,263.38	6,220.31	43.07	145.425		
2,100.00	1,983.88	1,962.88	1,962.88	12.38	33.27	86.80	-5,431.33	3,232.50	6,259.16	6,213.54	45.62	137.192		
2,200.00	2,063.74	2,042.74	2,042.74	13.57	34.67	87.32	-5,431.33	3,232.50	6,255.31	6,207.09	48.22	129.737		
2,300.00	2,141.45	2,120.45	2,120.45	14.84	36.02	87.84	-5,431.33	3,232.50	6,251.89	6,201.05	50.84	122.964		
2,327.78	2,162.65	2,141.65	2,141.65	15.21	36.39	87.98	-5,431.33	3,232.50	6,251.03	6,199.45	51.58	121.194		
2,400.00	2,217.51	2,203.49	2,196.51	16.17	37.47	88.30	-5,431.33	3,232.50	6,249.03	6,195.40	53.62	116.540		
2,500.00	2,293.49	2,272.49	2,272.49	17.51	38.68	88.76	-5,431.33	3,232.50	6,246.83	6,190.66	56.17	111.207		
2,600.00	2,369.47	2,348.47	2,348.47	18.86	40.00	89.21	-5,431.33	3,232.50	6,245.32	6,186.46	58.86	106.111		
2,700.00	2,445.45	2,424.45	2,424.45	20.22	41.33	89.66	-5,431.33	3,232.50	6,244.48	6,182.93	61.55	101.458		
2,774.06	2,501.71	2,480.71	2,480.71	21.24	42.31	90.00	-5,431.33	3,232.50	6,244.29	6,180.75	63.54	98.266		
2,800.00	2,521.42	2,500.42	2,500.42	21.59	42.65	90.12	-5,431.33	3,232.50	6,244.31	6,180.07	64.24	97.196		
2,900.00	2,597.40	2,576.40	2,576.40	22.97	43.98	90.57	-5,431.33	3,232.50	6,244.83	6,177.88	66.95	93.282		
3,000.00	2,673.38	2,652.38	2,652.38	24.34	45.31	91.02	-5,431.33	3,232.50	6,246.02	6,176.37	69.65	89.678		
3,100.00	2,749.36	2,728.36	2,728.36	25.73	46.63	91.48	-5,431.33	3,232.50	6,247.89	6,175.53	72.35	86.351		
3,200.00	2,825.33	2,804.33	2,804.33	27.11	47.96	91.93	-5,431.33	3,232.50	6,250.43	6,175.37	75.06	83.272		
3,300.00	2,901.31	2,880.31	2,880.31	28.50	49.28	92.38	-5,431.33	3,232.50	6,253.65	6,175.88	77.77	80.417		
3,400.00	2,977.29	2,956.29	2,956.29	29.90	50.61	92.83	-5,431.33	3,232.50	6,257.54	6,177.07	80.47	77.763		
3,500.00	3,053.27	3,032.27	3,032.27	31.29	51.94	93.29	-5,431.33	3,232.50	6,262.11	6,178.93	83.17	75.291		
3,600.00	3,129.24	3,108.24	3,108.24	32.69	53.26	93.74	-5,431.33	3,232.50	6,267.34	6,181.47	85.87	72.986		
3,700.00	3,205.22	3,184.22	3,184.22	34.08	54.59	94.19	-5,431.33	3,232.50	6,273.25	6,184.68	88.57	70.830		
3,800.00	3,281.20	3,260.20	3,260.20	35.48	55.92	94.64	-5,431.33	3,232.50	6,279.82	6,188.56	91.26	68.813		
3,900.00	3,357.18	3,336.18	3,336.18	36.88	57.24	95.09	-5,431.33	3,232.50	6,287.06	6,193.11	93.95	66.921		
4,000.00	3,433.15	3,412.15	3,412.15	38.29	58.57	95.54	-5,431.33	3,232.50	6,294.96	6,198.33	96.63	65.145		
4,100.00	3,509.13	3,488.13	3,488.13	39.69	59.89	95.99	-5,431.33	3,232.50	6,303.52	6,204.22	99.31	63.474		
4,200.00	3,585.11	3,564.11	3,564.11	41.09	61.22	96.44	-5,431.33	3,232.50	6,312.75	6,210.77	101.98	61.902		
4,300.00	3,661.08	3,640.08	3,640.08	42.50	62.55	96.88	-5,431.33	3,232.50	6,322.62	6,217.98	104.65	60.419		
4,400.00	3,737.06	3,716.06	3,716.06	43.90	63.87	97.33	-5,431.33	3,232.50	6,333.15	6,225.85	107.30	59.020		
4,500.00	3,813.04	3,807.96	3,792.04	45.31	65.48	97.78	-5,431.33	3,232.50	6,344.33	6,234.09	110.23	57.553		
4,600.00	3,889.02	3,868.02	3,868.02	46.71	66.52	98.22	-5,431.33	3,232.50	6,356.15	6,243.55	112.60	56.448		
4,700.00	3,964.99	3,943.99	3,943.99	48.12	67.85	98.66	-5,431.33	3,232.50	6,368.61	6,253.38	115.24	55.265		
4,800.00	4,040.97	4,019.97	4,019.97	49.53	69.18	99.11	-5,431.33	3,232.50	6,381.72	6,263.85	117.87	54.143		
4,900.00	4,116.95	4,104.05	4,095.95	50.94	70.64	99.55	-5,431.33	3,232.50	6,395.45	6,274.82	120.63	53.017		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,192.93	4,171.93	4,171.93	52.35	71.83	99.99	-5,431.33	3,232.50	6,409.82	6,286.72	123.10	52.070		
5,100.00	4,268.90	4,247.90	4,247.90	53.76	73.15	100.43	-5,431.33	3,232.50	6,424.81	6,299.11	125.70	51.111		
5,200.00	4,344.88	4,323.88	4,323.88	55.16	74.48	100.86	-5,431.33	3,232.50	6,440.43	6,312.13	128.30	50.199		
5,300.00	4,420.86	4,400.14	4,399.86	56.57	75.81	101.30	-5,431.33	3,232.50	6,456.66	6,325.77	130.89	49.330		
5,400.00	4,496.84	4,475.84	4,475.84	57.98	77.13	101.74	-5,431.33	3,232.50	6,473.50	6,340.05	133.46	48.506		
5,500.00	4,572.81	4,551.81	4,551.81	59.39	78.46	102.17	-5,431.33	3,232.50	6,490.95	6,354.93	136.02	47.720		
5,600.00	4,648.79	4,627.79	4,627.79	60.81	79.78	102.60	-5,431.33	3,232.50	6,509.01	6,370.43	138.58	46.970		
5,700.00	4,724.77	4,703.77	4,703.77	62.22	81.11	103.03	-5,431.33	3,232.50	6,527.66	6,386.54	141.12	46.255		
5,800.00	4,800.74	4,779.74	4,779.74	63.63	82.44	103.46	-5,431.33	3,232.50	6,546.91	6,403.25	143.66	45.573		
5,900.00	4,876.72	4,855.72	4,855.72	65.04	83.76	103.89	-5,431.33	3,232.50	6,566.74	6,420.56	146.18	44.922		
6,000.00	4,952.70	4,931.70	4,931.70	66.45	85.09	104.32	-5,431.33	3,232.50	6,587.15	6,438.46	148.70	44.300		
6,100.00	5,028.68	5,007.68	5,007.68	67.86	86.41	104.74	-5,431.33	3,232.50	6,608.14	6,456.94	151.20	43.705		
6,200.00	5,104.65	5,083.65	5,083.65	69.27	87.74	105.16	-5,431.33	3,232.50	6,629.70	6,476.01	153.69	43.137		
6,300.00	5,180.63	5,159.63	5,159.63	70.69	89.07	105.59	-5,431.33	3,232.50	6,651.83	6,495.66	156.17	42.594		
6,400.00	5,256.61	5,235.61	5,235.61	72.10	90.39	106.01	-5,431.33	3,232.50	6,674.52	6,515.88	158.64	42.074		
6,500.00	5,332.59	5,311.59	5,311.59	73.51	91.72	106.42	-5,431.33	3,232.50	6,697.76	6,536.66	161.10	41.576		
6,600.00	5,408.56	5,387.56	5,387.56	74.92	93.04	106.84	-5,431.33	3,232.50	6,721.55	6,558.01	163.54	41.099		
6,700.00	5,484.54	5,463.54	5,463.54	76.34	94.37	107.25	-5,431.33	3,232.50	6,745.88	6,579.90	165.98	40.643		
6,800.00	5,560.52	5,539.52	5,539.52	77.75	95.70	107.67	-5,431.33	3,232.50	6,770.75	6,602.35	168.40	40.205		
6,900.00	5,636.50	5,615.50	5,615.50	79.16	97.02	108.08	-5,431.33	3,232.50	6,796.16	6,625.34	170.82	39.786		
7,000.00	5,712.47	5,708.53	5,691.47	80.57	98.65	108.49	-5,431.33	3,232.50	6,822.08	6,648.57	173.52	39.317		
7,100.00	5,788.45	5,767.45	5,767.45	81.99	99.67	108.89	-5,431.33	3,232.50	6,848.53	6,672.92	175.61	38.999		
7,200.00	5,864.43	5,843.43	5,843.43	83.40	101.00	109.30	-5,431.33	3,232.50	6,875.49	6,697.50	177.99	38.629		
7,300.00	5,940.40	5,919.40	5,919.40	84.81	102.33	109.70	-5,431.33	3,232.50	6,902.95	6,722.60	180.35	38.274		
7,400.00	6,016.38	6,004.62	5,995.38	86.23	103.81	110.10	-5,431.33	3,232.50	6,930.92	6,748.05	182.87	37.901		
7,500.00	6,092.36	6,071.36	6,071.36	87.64	104.98	110.50	-5,431.33	3,232.50	6,959.38	6,774.33	185.05	37.607		
7,600.00	6,168.34	6,147.34	6,147.34	89.05	106.31	110.90	-5,431.33	3,232.50	6,988.33	6,800.94	187.39	37.294		
7,700.00	6,244.31	6,223.31	6,223.31	90.47	107.63	111.29	-5,431.33	3,232.50	7,017.77	6,828.06	189.71	36.992		
7,800.00	6,320.29	6,300.71	6,299.29	91.88	108.98	111.68	-5,431.33	3,232.50	7,047.68	6,855.63	192.04	36.698		
7,900.00	6,396.27	6,375.27	6,375.27	93.30	110.28	112.07	-5,431.33	3,232.50	7,078.06	6,883.74	194.32	36.425		
8,000.00	6,472.25	6,451.25	6,451.25	94.71	111.61	112.46	-5,431.33	3,232.50	7,108.91	6,912.30	196.61	36.158		
8,100.00	6,548.22	6,527.22	6,527.22	96.12	112.94	112.85	-5,431.33	3,232.50	7,140.21	6,941.33	198.88	35.902		
8,200.00	6,624.20	6,603.20	6,603.20	97.54	114.26	113.23	-5,431.33	3,232.50	7,171.97	6,970.82	201.15	35.655		
8,300.00	6,700.18	6,679.18	6,679.18	98.95	115.59	113.61	-5,431.33	3,232.50	7,204.17	7,000.77	203.40	35.418		
8,400.00	6,776.16	6,755.16	6,755.16	100.37	116.91	113.99	-5,431.33	3,232.50	7,236.82	7,031.17	205.65	35.191		
8,500.00	6,852.13	6,831.13	6,831.13	101.78	118.24	114.37	-5,431.33	3,232.50	7,269.90	7,062.02	207.88	34.972		
8,600.00	6,928.11	6,907.11	6,907.11	103.20	119.57	114.74	-5,431.33	3,232.50	7,303.41	7,093.31	210.10	34.761		
8,700.00	7,004.09	6,983.09	6,983.09	104.61	120.89	115.12	-5,431.33	3,232.50	7,337.34	7,125.03	212.31	34.559		
8,800.00	7,080.06	7,059.06	7,059.06	106.02	122.22	115.49	-5,431.33	3,232.50	7,371.69	7,157.18	214.52	34.364		
8,900.00	7,156.04	7,135.04	7,135.04	107.44	123.54	115.86	-5,431.33	3,232.50	7,406.46	7,189.75	216.71	34.177		
9,000.00	7,232.02	7,211.02	7,211.02	108.85	124.87	116.22	-5,431.33	3,232.50	7,441.62	7,222.74	218.89	33.998		
9,104.68	7,311.55	7,309.45	7,290.55	110.33	126.59	116.60	-5,431.33	3,232.50	7,478.86	7,257.38	221.49	33.766		
9,150.00	7,346.29	7,325.29	7,325.29	110.97	126.86	111.28	-5,431.33	3,232.50	7,493.46	7,271.30	222.15	33.731		
9,200.00	7,385.15	7,364.15	7,364.15	111.65	127.54	105.15	-5,431.33	3,232.50	7,505.73	7,282.45	223.27	33.617		
9,250.00	7,424.29	7,403.29	7,403.29	112.31	128.23	98.92	-5,431.33	3,232.50	7,513.90	7,289.49	224.41	33.483		
9,300.00	7,463.40	7,442.40	7,442.40	112.93	128.91	92.78	-5,431.33	3,232.50	7,517.93	7,292.37	225.55	33.331		
9,350.00	7,502.19	7,481.19	7,481.19	113.51	129.59	86.92	-5,431.33	3,232.50	7,517.79	7,291.10	226.69	33.163		
9,400.00	7,540.36	7,519.36	7,519.36	114.04	130.25	81.49	-5,431.33	3,232.50	7,513.49	7,285.69	227.80	32.982		
9,450.00	7,577.62	7,556.62	7,556.62	114.53	130.90	76.62	-5,431.33	3,232.50	7,505.07	7,276.18	228.89	32.789		
9,500.00	7,613.70	7,607.30	7,592.70	114.95	131.79	72.36	-5,431.33	3,232.50	7,492.59	7,262.40	230.19	32.550		
9,550.00	7,648.30	7,627.30	7,627.30	115.32	132.14	68.76	-5,431.33	3,232.50	7,476.15	7,245.22	230.93	32.374		
9,600.00	7,681.18	7,660.18	7,660.18	115.63	132.71	65.79	-5,431.33	3,232.50	7,455.88	7,224.00	231.87	32.155		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - SI VERT SEARS 22-26 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,650.00	7,712.08	7,708.92	7,691.08	115.88	133.56	63.46	-5,431.33	3,232.50	7,431.90	7,198.84	233.06	31.888		
9,700.00	7,740.76	7,719.76	7,719.76	116.08	133.75	61.74	-5,431.33	3,232.50	7,404.41	7,170.86	233.56	31.703		
9,750.00	7,767.01	7,746.01	7,746.01	116.23	134.21	60.64	-5,431.33	3,232.50	7,373.60	7,139.32	234.29	31.472		
9,800.00	7,790.63	7,769.63	7,769.63	116.33	134.62	60.18	-5,431.33	3,232.50	7,339.69	7,104.75	234.94	31.240		
9,850.00	7,811.44	7,809.56	7,790.44	116.38	135.32	60.40	-5,431.33	3,232.50	7,302.93	7,067.08	235.85	30.964		
9,900.00	7,829.28	7,808.28	7,808.28	116.38	135.29	61.41	-5,431.33	3,232.50	7,263.57	7,027.56	236.01	30.777		
9,950.00	7,844.01	7,823.01	7,823.01	116.35	135.55	63.39	-5,431.33	3,232.50	7,221.90	6,985.49	236.42	30.547		
10,000.00	7,855.52	7,834.52	7,834.52	116.28	135.75	66.64	-5,431.33	3,232.50	7,178.23	6,941.48	236.74	30.321		
10,050.00	7,863.72	7,842.72	7,842.72	116.18	135.90	71.68	-5,431.33	3,232.50	7,132.85	6,895.86	236.99	30.098		
10,100.00	7,868.56	7,847.56	7,847.56	116.06	135.98	79.39	-5,431.33	3,232.50	7,086.11	6,848.95	237.15	29.880		
10,145.94	7,870.00	7,849.00	7,849.00	115.92	136.00	90.00	-5,431.33	3,232.50	7,042.24	6,805.01	237.23	29.685		
10,200.00	7,870.00	7,849.00	7,849.00	115.76	136.00	90.00	-5,431.33	3,232.50	6,990.23	6,752.94	237.29	29.458		
10,300.00	7,870.00	7,849.00	7,849.00	115.46	136.00	90.00	-5,431.33	3,232.50	6,894.11	6,656.70	237.40	29.040		
10,400.00	7,870.00	7,849.00	7,849.00	115.18	136.00	90.00	-5,431.33	3,232.50	6,798.10	6,560.58	237.52	28.621		
10,500.00	7,870.00	7,849.00	7,849.00	114.91	136.00	90.00	-5,431.33	3,232.50	6,702.20	6,464.57	237.64	28.204		
10,600.00	7,870.00	7,849.00	7,849.00	114.65	136.00	90.00	-5,431.33	3,232.50	6,606.43	6,368.67	237.76	27.786		
10,700.00	7,870.00	7,849.00	7,849.00	114.41	136.00	90.00	-5,431.33	3,232.50	6,510.78	6,272.90	237.88	27.370		
10,800.00	7,870.00	7,849.00	7,849.00	114.17	136.00	90.00	-5,431.33	3,232.50	6,415.27	6,177.25	238.01	26.953		
10,900.00	7,870.00	7,849.00	7,849.00	113.95	136.00	90.00	-5,431.33	3,232.50	6,319.89	6,081.75	238.15	26.538		
11,000.00	7,870.00	7,849.00	7,849.00	113.75	136.00	90.00	-5,431.33	3,232.50	6,224.67	5,986.38	238.29	26.122		
11,100.00	7,870.00	7,849.00	7,849.00	113.55	136.00	90.00	-5,431.33	3,232.50	6,129.59	5,891.16	238.43	25.708		
11,200.00	7,870.00	7,849.00	7,849.00	113.37	136.00	90.00	-5,431.33	3,232.50	6,034.67	5,796.09	238.58	25.294		
11,300.00	7,870.00	7,849.00	7,849.00	113.20	136.00	90.00	-5,431.33	3,232.50	5,939.92	5,701.19	238.73	24.881		
11,400.00	7,870.00	7,849.00	7,849.00	113.04	136.00	90.00	-5,431.33	3,232.50	5,845.34	5,606.45	238.89	24.468		
11,500.00	7,870.00	7,849.00	7,849.00	112.89	136.00	90.00	-5,431.33	3,232.50	5,750.95	5,511.89	239.06	24.057		
11,600.00	7,870.00	7,849.00	7,849.00	112.76	136.00	90.00	-5,431.33	3,232.50	5,656.75	5,417.52	239.23	23.646		
11,700.00	7,870.00	7,849.00	7,849.00	112.64	136.00	90.00	-5,431.33	3,232.50	5,562.75	5,323.35	239.40	23.236		
11,800.00	7,870.00	7,849.00	7,849.00	112.53	136.00	90.00	-5,431.33	3,232.50	5,468.97	5,229.38	239.58	22.827		
11,900.00	7,870.00	7,849.00	7,849.00	112.44	136.00	90.00	-5,431.33	3,232.50	5,375.41	5,135.64	239.77	22.419		
12,000.00	7,870.00	7,849.00	7,849.00	112.36	136.00	90.00	-5,431.33	3,232.50	5,282.08	5,042.12	239.97	22.012		
12,100.00	7,870.00	7,849.00	7,849.00	112.29	136.00	90.00	-5,431.33	3,232.50	5,189.01	4,948.84	240.17	21.606		
12,200.00	7,870.00	7,849.00	7,849.00	112.24	136.00	90.00	-5,431.33	3,232.50	5,096.19	4,855.82	240.38	21.201		
12,300.00	7,870.00	7,849.00	7,849.00	112.20	136.00	90.00	-5,431.33	3,232.50	5,003.65	4,763.06	240.59	20.797		
12,400.00	7,870.00	7,849.00	7,849.00	112.17	136.00	90.00	-5,431.33	3,232.50	4,911.41	4,670.60	240.82	20.395		
12,500.00	7,870.00	7,849.00	7,849.00	112.16	136.00	90.00	-5,431.33	3,232.50	4,819.48	4,578.43	241.05	19.994		
12,600.00	7,870.00	7,849.00	7,849.00	112.17	136.00	90.00	-5,431.33	3,232.50	4,727.87	4,486.58	241.29	19.594		
12,700.00	7,870.00	7,849.00	7,849.00	112.19	136.00	90.00	-5,431.33	3,232.50	4,636.61	4,395.07	241.54	19.196		
12,800.00	7,870.00	7,849.00	7,849.00	112.23	136.00	90.00	-5,431.33	3,232.50	4,545.71	4,303.92	241.79	18.800		
12,900.00	7,870.00	7,849.00	7,849.00	112.28	136.00	90.00	-5,431.33	3,232.50	4,455.21	4,213.15	242.06	18.405		
13,000.00	7,870.00	7,849.00	7,849.00	112.36	136.00	90.00	-5,431.33	3,232.50	4,365.12	4,122.79	242.34	18.013		
13,100.00	7,870.00	7,849.00	7,849.00	112.45	136.00	90.00	-5,431.33	3,232.50	4,275.48	4,032.85	242.62	17.622		
13,200.00	7,870.00	7,849.00	7,849.00	112.56	136.00	90.00	-5,431.33	3,232.50	4,186.30	3,943.38	242.92	17.233		
13,300.00	7,870.00	7,849.00	7,849.00	112.68	136.00	90.00	-5,431.33	3,232.50	4,097.62	3,854.39	243.23	16.847		
13,400.00	7,870.00	7,849.00	7,849.00	112.83	136.00	90.00	-5,431.33	3,232.50	4,009.47	3,765.92	243.55	16.463		
13,500.00	7,870.00	7,849.00	7,849.00	113.00	136.00	90.00	-5,431.33	3,232.50	3,921.90	3,678.01	243.88	16.081		
13,600.00	7,870.00	7,849.00	7,849.00	113.19	136.00	90.00	-5,431.33	3,232.50	3,834.93	3,590.70	244.22	15.702		
13,700.00	7,870.00	7,849.00	7,849.00	113.40	136.00	90.00	-5,431.33	3,232.50	3,748.61	3,504.03	244.58	15.327		
13,800.00	7,870.00	7,849.00	7,849.00	113.63	136.00	90.00	-5,431.33	3,232.50	3,662.98	3,418.04	244.95	14.954		
13,900.00	7,870.00	7,849.00	7,849.00	113.89	136.00	90.00	-5,431.33	3,232.50	3,578.11	3,332.78	245.33	14.585		
14,000.00	7,870.00	7,849.00	7,849.00	114.18	136.00	90.00	-5,431.33	3,232.50	3,494.03	3,248.31	245.72	14.220		
14,100.00	7,870.00	7,849.00	7,849.00	114.48	136.00	90.00	-5,431.33	3,232.50	3,410.81	3,164.69	246.12	13.858		
14,200.00	7,870.00	7,849.00	7,849.00	114.82	136.00	90.00	-5,431.33	3,232.50	3,328.51	3,081.98	246.54	13.501		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - SI VERT SEARS 22-26 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,300.00	7,870.00	7,849.00	7,849.00	115.18	136.00	90.00	-5,431.33	3,232.50	3,247.21	3,000.25	246.97	13.148		
14,400.00	7,870.00	7,849.00	7,849.00	115.57	136.00	90.00	-5,431.33	3,232.50	3,166.99	2,919.58	247.40	12.801		
14,500.00	7,870.00	7,849.00	7,849.00	115.99	136.00	90.00	-5,431.33	3,232.50	3,087.91	2,840.06	247.85	12.459		
14,600.00	7,870.00	7,849.00	7,849.00	116.44	136.00	90.00	-5,431.33	3,232.50	3,010.08	2,761.77	248.31	12.122		
14,700.00	7,870.00	7,849.00	7,849.00	116.92	136.00	90.00	-5,431.33	3,232.50	2,933.59	2,684.81	248.78	11.792		
14,800.00	7,870.00	7,849.00	7,849.00	117.44	136.00	90.00	-5,431.33	3,232.50	2,858.56	2,609.31	249.25	11.468		
14,900.00	7,870.00	7,849.00	7,849.00	117.98	136.00	90.00	-5,431.33	3,232.50	2,785.10	2,535.36	249.73	11.152		
15,000.00	7,870.00	7,849.00	7,849.00	118.56	136.00	90.00	-5,431.33	3,232.50	2,713.33	2,463.12	250.21	10.844		
15,100.00	7,870.00	7,849.00	7,849.00	119.17	136.00	90.00	-5,431.33	3,232.50	2,643.40	2,392.71	250.68	10.545		
15,200.00	7,870.00	7,849.00	7,849.00	119.81	136.00	90.00	-5,431.33	3,232.50	2,575.45	2,324.30	251.15	10.255		
15,300.00	7,870.00	7,849.00	7,849.00	120.48	136.00	90.00	-5,431.33	3,232.50	2,509.65	2,258.04	251.61	9.975		
15,400.00	7,870.00	7,849.00	7,849.00	121.19	136.00	90.00	-5,431.33	3,232.50	2,446.16	2,194.12	252.04	9.705		
15,500.00	7,870.00	7,849.00	7,849.00	121.93	136.00	90.00	-5,431.33	3,232.50	2,385.19	2,132.73	252.45	9.448		
15,600.00	7,870.00	7,849.00	7,849.00	122.71	136.00	90.00	-5,431.33	3,232.50	2,326.91	2,074.08	252.83	9.203		
15,700.00	7,870.00	7,849.00	7,849.00	123.52	136.00	90.00	-5,431.33	3,232.50	2,271.54	2,018.37	253.17	8.972		
15,800.00	7,870.00	7,849.00	7,849.00	124.36	136.00	90.00	-5,431.33	3,232.50	2,219.30	1,965.85	253.45	8.756		
15,900.00	7,870.00	7,849.00	7,849.00	125.23	136.00	90.00	-5,431.33	3,232.50	2,170.41	1,916.74	253.67	8.556		
16,000.00	7,870.00	7,849.00	7,849.00	126.14	136.00	90.00	-5,431.33	3,232.50	2,125.10	1,871.29	253.82	8.373		
16,100.00	7,870.00	7,849.00	7,849.00	127.07	136.00	90.00	-5,431.33	3,232.50	2,083.62	1,829.74	253.87	8.207		
16,200.00	7,870.00	7,849.00	7,849.00	128.04	136.00	90.00	-5,431.33	3,232.50	2,046.18	1,792.35	253.83	8.061		
16,300.00	7,870.00	7,849.00	7,849.00	129.04	136.00	90.00	-5,431.33	3,232.50	2,013.02	1,759.33	253.69	7.935		
16,400.00	7,870.00	7,849.00	7,849.00	130.06	136.00	90.00	-5,431.33	3,232.50	1,984.35	1,730.93	253.42	7.830		
16,500.00	7,870.00	7,849.00	7,849.00	131.11	136.00	90.00	-5,431.33	3,232.50	1,960.37	1,707.34	253.03	7.748		
16,600.00	7,870.00	7,849.00	7,849.00	132.19	136.00	90.00	-5,431.33	3,232.50	1,941.24	1,688.73	252.51	7.688		
16,700.00	7,870.00	7,849.00	7,849.00	133.29	136.00	90.00	-5,431.33	3,232.50	1,927.13	1,675.27	251.86	7.652		
16,800.00	7,870.00	7,849.00	7,849.00	134.42	136.00	90.00	-5,431.33	3,232.50	1,918.13	1,667.04	251.09	7.639 SF		
16,900.00	7,870.00	7,849.00	7,849.00	135.57	136.00	90.00	-5,431.33	3,232.50	1,914.31	1,664.12	250.19	7.651 ES		
16,923.04	7,870.00	7,849.00	7,849.00	135.84	136.00	90.00	-5,431.33	3,232.50	1,914.18	1,664.21	249.97	7.658 CC		
17,000.00	7,870.00	7,849.00	7,849.00	136.75	136.00	90.00	-5,431.33	3,232.50	1,915.72	1,666.54	249.19	7.688		
17,100.00	7,870.00	7,849.00	7,849.00	137.94	136.00	90.00	-5,431.33	3,232.50	1,922.34	1,674.25	248.09	7.749		
17,200.00	7,870.00	7,849.00	7,849.00	139.16	136.00	90.00	-5,431.33	3,232.50	1,934.11	1,687.20	246.91	7.833		
17,300.00	7,870.00	7,849.00	7,849.00	140.39	136.00	90.00	-5,431.33	3,232.50	1,950.94	1,705.26	245.68	7.941		
17,400.00	7,870.00	7,849.00	7,849.00	141.65	136.00	90.00	-5,431.33	3,232.50	1,972.70	1,728.30	244.40	8.072		
17,500.00	7,870.00	7,849.00	7,849.00	142.92	136.00	90.00	-5,431.33	3,232.50	1,999.24	1,756.13	243.11	8.224		
17,600.00	7,870.00	7,849.00	7,849.00	144.21	136.00	90.00	-5,431.33	3,232.50	2,030.36	1,788.54	241.82	8.396		
17,700.00	7,870.00	7,849.00	7,849.00	145.52	136.00	90.00	-5,431.33	3,232.50	2,065.85	1,825.31	240.54	8.588		
17,800.00	7,870.00	7,849.00	7,849.00	146.84	136.00	90.00	-5,431.33	3,232.50	2,105.50	1,866.20	239.30	8.799		
17,900.00	7,870.00	7,849.00	7,849.00	148.18	136.00	90.00	-5,431.33	3,232.50	2,149.07	1,910.97	238.11	9.026		
18,000.00	7,870.00	7,849.00	7,849.00	149.54	136.00	90.00	-5,431.33	3,232.50	2,196.34	1,959.38	236.96	9.269		
18,100.00	7,870.00	7,849.00	7,849.00	150.90	136.00	90.00	-5,431.33	3,232.50	2,247.07	2,011.18	235.89	9.526		
18,200.00	7,870.00	7,849.00	7,849.00	152.28	136.00	90.00	-5,431.33	3,232.50	2,301.02	2,066.15	234.88	9.797		
18,300.00	7,870.00	7,849.00	7,849.00	153.67	136.00	90.00	-5,431.33	3,232.50	2,357.98	2,124.05	233.93	10.080		
18,400.00	7,870.00	7,849.00	7,849.00	155.07	136.00	90.00	-5,431.33	3,232.50	2,417.74	2,184.68	233.07	10.374		
18,500.00	7,870.00	7,849.00	7,849.00	156.49	136.00	90.00	-5,431.33	3,232.50	2,480.10	2,247.83	232.27	10.678		
18,600.00	7,870.00	7,849.00	7,849.00	157.91	136.00	90.00	-5,431.33	3,232.50	2,544.85	2,313.31	231.54	10.991		
18,700.00	7,870.00	7,849.00	7,849.00	159.35	136.00	90.00	-5,431.33	3,232.50	2,611.83	2,380.96	230.87	11.313		
18,800.00	7,870.00	7,849.00	7,849.00	160.79	136.00	90.00	-5,431.33	3,232.50	2,680.87	2,450.59	230.28	11.642		
18,900.00	7,870.00	7,849.00	7,849.00	162.25	136.00	90.00	-5,431.33	3,232.50	2,751.81	2,522.07	229.73	11.978		
19,000.00	7,870.00	7,849.00	7,849.00	163.71	136.00	90.00	-5,431.33	3,232.50	2,824.51	2,595.26	229.25	12.321		
19,100.00	7,870.00	7,849.00	7,849.00	165.18	136.00	90.00	-5,431.33	3,232.50	2,898.83	2,670.01	228.82	12.669		
19,200.00	7,870.00	7,849.00	7,849.00	166.66	136.00	90.00	-5,431.33	3,232.50	2,974.66	2,746.23	228.43	13.022		
19,300.00	7,870.00	7,849.00	7,849.00	168.15	136.00	90.00	-5,431.33	3,232.50	3,051.89	2,823.80	228.09	13.380		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,400.00	7,870.00	7,849.00	7,849.00	169.65	136.00	90.00	-5,431.33	3,232.50	3,130.40	2,902.61	227.79	13.742	
19,500.00	7,870.00	7,849.00	7,849.00	171.15	136.00	90.00	-5,431.33	3,232.50	3,210.11	2,982.58	227.53	14.109	
19,600.00	7,870.00	7,849.00	7,849.00	172.66	136.00	90.00	-5,431.33	3,232.50	3,290.93	3,063.63	227.29	14.479	
19,700.00	7,870.00	7,849.00	7,849.00	174.18	136.00	90.00	-5,431.33	3,232.50	3,372.77	3,145.68	227.09	14.852	
19,800.00	7,870.00	7,849.00	7,849.00	175.70	136.00	90.00	-5,431.33	3,232.50	3,455.57	3,228.65	226.92	15.228	
19,889.26	7,870.00	7,849.00	7,849.00	177.06	136.00	90.00	-5,431.33	3,232.50	3,530.23	3,303.44	226.78	15.566	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	134.52	-5,559.12	5,653.96	7,929.22					
100.00	100.00	62.00	62.00	0.13	0.51	134.52	-5,559.12	5,653.96	7,929.13	7,928.48	0.65	N/A		
200.00	200.00	162.00	162.00	0.49	1.91	134.52	-5,559.12	5,653.96	7,929.13	7,926.72	2.40	3,298.258		
300.00	300.00	262.00	262.00	0.85	3.66	134.52	-5,559.12	5,653.96	7,929.13	7,924.62	4.51	1,758.965		
400.00	399.98	361.98	361.98	1.21	5.40	66.39	-5,559.12	5,653.96	7,928.43	7,921.82	6.61	1,200.035		
500.00	499.84	461.84	461.84	1.56	7.14	66.47	-5,559.12	5,653.96	7,926.33	7,917.63	8.71	910.496		
600.00	599.45	561.45	561.45	1.93	8.88	66.59	-5,559.12	5,653.96	7,922.85	7,912.04	10.81	732.926		
700.00	698.70	660.70	660.70	2.32	10.62	66.76	-5,559.12	5,653.96	7,917.99	7,905.07	12.92	612.745		
800.00	797.47	759.47	759.47	2.72	12.34	66.98	-5,559.12	5,653.96	7,911.78	7,896.74	15.05	525.862		
900.00	895.62	857.62	857.62	3.16	14.05	67.24	-5,559.12	5,653.96	7,904.24	7,887.06	17.18	460.008		
1,000.00	993.06	955.06	955.06	3.63	15.75	67.55	-5,559.12	5,653.96	7,895.40	7,876.07	19.34	408.286		
1,100.00	1,089.64	1,051.64	1,051.64	4.14	17.44	67.91	-5,559.12	5,653.96	7,885.30	7,863.79	21.51	366.522		
1,200.00	1,185.27	1,147.27	1,147.27	4.70	19.11	68.31	-5,559.12	5,653.96	7,873.97	7,850.26	23.71	332.045		
1,300.00	1,279.82	1,241.82	1,241.82	5.31	20.76	68.75	-5,559.12	5,653.96	7,861.47	7,835.53	25.94	303.066		
1,400.00	1,373.17	1,335.17	1,335.17	5.97	22.39	69.24	-5,559.12	5,653.96	7,847.84	7,819.65	28.19	278.342		
1,500.00	1,465.21	1,427.21	1,427.21	6.69	23.99	69.77	-5,559.12	5,653.96	7,833.14	7,802.66	30.48	256.982		
1,600.00	1,555.84	1,517.84	1,517.84	7.47	25.58	70.34	-5,559.12	5,653.96	7,817.43	7,784.63	32.80	238.333		
1,700.00	1,644.94	1,606.94	1,606.94	8.31	27.13	70.94	-5,559.12	5,653.96	7,800.77	7,765.62	35.15	221.901		
1,800.00	1,732.39	1,705.61	1,694.39	9.23	28.85	71.57	-5,559.12	5,653.96	7,783.23	7,745.49	37.74	206.236		
1,900.00	1,818.11	1,780.11	1,780.11	10.21	30.15	72.24	-5,559.12	5,653.96	7,764.89	7,724.92	39.97	194.268		
2,000.00	1,901.97	1,863.97	1,863.97	11.26	31.62	72.94	-5,559.12	5,653.96	7,745.82	7,703.39	42.43	182.540		
2,100.00	1,983.88	1,945.88	1,945.88	12.38	33.05	73.67	-5,559.12	5,653.96	7,726.10	7,681.17	44.93	171.940		
2,200.00	2,063.74	2,025.74	2,025.74	13.57	34.44	74.42	-5,559.12	5,653.96	7,705.81	7,658.34	47.47	162.317		
2,300.00	2,141.45	2,103.45	2,103.45	14.84	35.80	75.19	-5,559.12	5,653.96	7,685.05	7,635.00	50.05	153.545		
2,327.78	2,162.65	2,124.65	2,124.65	15.21	36.17	75.40	-5,559.12	5,653.96	7,679.21	7,628.43	50.77	151.247		
2,400.00	2,217.51	2,179.51	2,179.51	16.17	37.12	75.67	-5,559.12	5,653.96	7,664.11	7,611.45	52.66	145.543		
2,500.00	2,293.49	2,255.49	2,255.49	17.51	38.45	76.03	-5,559.12	5,653.96	7,643.63	7,588.34	55.29	138.249		
2,600.00	2,369.47	2,331.47	2,331.47	18.86	39.78	76.40	-5,559.12	5,653.96	7,623.65	7,565.72	57.94	131.587		
2,700.00	2,445.45	2,407.45	2,407.45	20.22	41.10	76.77	-5,559.12	5,653.96	7,604.18	7,543.58	60.60	125.485		
2,800.00	2,521.42	2,483.42	2,483.42	21.59	42.43	77.14	-5,559.12	5,653.96	7,585.21	7,521.94	63.27	119.880		
2,900.00	2,597.40	2,559.40	2,559.40	22.97	43.75	77.51	-5,559.12	5,653.96	7,566.76	7,500.80	65.96	114.719		
3,000.00	2,673.38	2,635.38	2,635.38	24.34	45.08	77.88	-5,559.12	5,653.96	7,548.82	7,480.16	68.66	109.952		
3,100.00	2,749.36	2,711.36	2,711.36	25.73	46.41	78.25	-5,559.12	5,653.96	7,531.39	7,460.03	71.36	105.540		
3,200.00	2,825.33	2,787.33	2,787.33	27.11	47.73	78.63	-5,559.12	5,653.96	7,514.49	7,440.42	74.07	101.446		
3,300.00	2,901.31	2,863.31	2,863.31	28.50	49.06	79.00	-5,559.12	5,653.96	7,498.12	7,421.32	76.79	97.639		
3,400.00	2,977.29	2,939.29	2,939.29	29.90	50.38	79.38	-5,559.12	5,653.96	7,482.27	7,402.75	79.52	94.091		
3,500.00	3,053.27	3,015.27	3,015.27	31.29	51.71	79.76	-5,559.12	5,653.96	7,466.96	7,384.70	82.26	90.778		
3,600.00	3,129.24	3,108.76	3,091.24	32.69	53.34	80.13	-5,559.12	5,653.96	7,452.18	7,366.88	85.30	87.365		
3,700.00	3,205.22	3,167.22	3,167.22	34.08	54.36	80.51	-5,559.12	5,653.96	7,437.94	7,350.21	87.74	84.775		
3,800.00	3,281.20	3,243.20	3,243.20	35.48	55.69	80.89	-5,559.12	5,653.96	7,424.25	7,333.76	90.49	82.048		
3,900.00	3,357.18	3,319.18	3,319.18	36.88	57.01	81.27	-5,559.12	5,653.96	7,411.10	7,317.86	93.24	79.485		
4,000.00	3,433.15	3,404.85	3,395.15	38.29	58.51	81.65	-5,559.12	5,653.96	7,398.50	7,302.33	96.16	76.936		
4,100.00	3,509.13	3,471.13	3,471.13	39.69	59.67	82.04	-5,559.12	5,653.96	7,386.44	7,287.69	98.75	74.796		
4,200.00	3,585.11	3,547.11	3,547.11	41.09	60.99	82.42	-5,559.12	5,653.96	7,374.95	7,273.43	101.52	72.647		
4,300.00	3,661.08	3,623.08	3,623.08	42.50	62.32	82.80	-5,559.12	5,653.96	7,364.00	7,259.72	104.28	70.616		
4,400.00	3,737.06	3,700.94	3,699.06	43.90	63.68	83.18	-5,559.12	5,653.96	7,353.62	7,246.54	107.08	68.673		
4,500.00	3,813.04	3,775.04	3,775.04	45.31	64.97	83.57	-5,559.12	5,653.96	7,343.80	7,233.98	109.82	66.873		
4,600.00	3,889.02	3,851.02	3,851.02	46.71	66.30	83.95	-5,559.12	5,653.96	7,334.54	7,221.95	112.59	65.145		
4,700.00	3,964.99	3,926.99	3,926.99	48.12	67.62	84.34	-5,559.12	5,653.96	7,325.84	7,210.49	115.36	63.505		
4,800.00	4,040.97	4,002.97	4,002.97	49.53	68.95	84.73	-5,559.12	5,653.96	7,317.72	7,199.59	118.13	61.947		
4,900.00	4,116.95	4,078.95	4,078.95	50.94	70.27	85.11	-5,559.12	5,653.96	7,310.16	7,189.26	120.90	60.464		
5,000.00	4,192.93	4,154.93	4,154.93	52.35	71.60	85.50	-5,559.12	5,653.96	7,303.17	7,179.50	123.67	59.053		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,268.90	4,230.90	4,230.90	53.76	72.93	85.89	-5,559.12	5,653.96	7,296.76	7,170.32	126.44	57.708		
5,200.00	4,344.88	4,306.88	4,306.88	55.16	74.25	86.27	-5,559.12	5,653.96	7,290.92	7,161.71	129.21	56.426		
5,300.00	4,420.86	4,382.86	4,382.86	56.57	75.58	86.66	-5,559.12	5,653.96	7,285.66	7,153.68	131.98	55.202		
5,400.00	4,496.84	4,458.84	4,458.84	57.98	76.91	87.05	-5,559.12	5,653.96	7,280.97	7,146.22	134.75	54.034		
5,500.00	4,572.81	4,534.81	4,534.81	59.39	78.23	87.44	-5,559.12	5,653.96	7,276.86	7,139.35	137.51	52.918		
5,600.00	4,648.79	4,610.79	4,610.79	60.81	79.56	87.83	-5,559.12	5,653.96	7,273.33	7,133.06	140.28	51.850		
5,700.00	4,724.77	4,686.77	4,686.77	62.22	80.88	88.22	-5,559.12	5,653.96	7,270.38	7,127.35	143.04	50.829		
5,800.00	4,800.74	4,762.74	4,762.74	63.63	82.21	88.61	-5,559.12	5,653.96	7,268.01	7,122.22	145.79	49.851		
5,900.00	4,876.72	4,838.72	4,838.72	65.04	83.54	89.00	-5,559.12	5,653.96	7,266.22	7,117.68	148.55	48.915		
6,000.00	4,952.70	4,914.70	4,914.70	66.45	84.86	89.39	-5,559.12	5,653.96	7,265.02	7,113.72	151.30	48.018		
6,100.00	5,028.68	5,009.32	4,990.68	67.86	86.51	89.78	-5,559.12	5,653.96	7,264.39	7,110.02	154.37	47.058		
6,157.49	5,072.35	5,034.35	5,034.35	68.67	86.95	90.00	-5,559.12	5,653.96	7,264.29	7,108.67	155.62	46.679		
6,200.00	5,104.65	5,066.65	5,066.65	69.27	87.51	90.17	-5,559.12	5,653.96	7,264.35	7,107.56	156.79	46.333		
6,300.00	5,180.63	5,142.63	5,142.63	70.69	88.84	90.56	-5,559.12	5,653.96	7,264.89	7,105.36	159.52	45.541		
6,400.00	5,256.61	5,218.61	5,218.61	72.10	90.17	90.94	-5,559.12	5,653.96	7,266.01	7,103.75	162.26	44.781		
6,500.00	5,332.59	5,305.41	5,294.59	73.51	91.68	91.33	-5,559.12	5,653.96	7,267.71	7,102.53	165.17	44.000		
6,600.00	5,408.56	5,370.56	5,370.56	74.92	92.82	91.72	-5,559.12	5,653.96	7,269.99	7,102.28	167.71	43.349		
6,700.00	5,484.54	5,425.00	5,425.00	76.34	93.77	92.00	-5,559.12	5,653.96	7,272.89	7,102.84	170.04	42.771		
6,800.00	5,560.52	5,425.00	5,425.00	77.75	93.77	92.00	-5,559.12	5,653.96	7,276.95	7,105.54	171.41	42.454		
6,900.00	5,636.50	5,425.00	5,425.00	79.16	93.77	92.00	-5,559.12	5,653.96	7,282.39	7,109.64	172.74	42.157		
7,000.00	5,712.47	5,425.00	5,425.00	80.57	93.77	92.00	-5,559.12	5,653.96	7,289.19	7,115.14	174.05	41.879		
7,100.00	5,788.45	5,425.00	5,425.00	81.99	93.77	92.00	-5,559.12	5,653.96	7,297.36	7,122.02	175.34	41.619		
7,200.00	5,864.43	5,425.00	5,425.00	83.40	93.77	92.00	-5,559.12	5,653.96	7,306.89	7,130.29	176.59	41.377		
7,300.00	5,940.40	5,425.00	5,425.00	84.81	93.77	92.00	-5,559.12	5,653.96	7,317.77	7,139.95	177.82	41.153		
7,400.00	6,016.38	5,425.00	5,425.00	86.23	93.77	92.00	-5,559.12	5,653.96	7,330.00	7,150.98	179.02	40.946		
7,500.00	6,092.36	5,425.00	5,425.00	87.64	93.77	92.00	-5,559.12	5,653.96	7,343.57	7,163.38	180.19	40.755		
7,600.00	6,168.34	5,425.00	5,425.00	89.05	93.77	92.00	-5,559.12	5,653.96	7,358.47	7,177.14	181.33	40.581		
7,700.00	6,244.31	5,425.00	5,425.00	90.47	93.77	92.00	-5,559.12	5,653.96	7,374.71	7,192.27	182.44	40.423		
7,800.00	6,320.29	5,425.00	5,425.00	91.88	93.77	92.00	-5,559.12	5,653.96	7,392.25	7,208.73	183.52	40.280		
7,900.00	6,396.27	5,425.00	5,425.00	93.30	93.77	92.00	-5,559.12	5,653.96	7,411.11	7,226.54	184.57	40.152		
8,000.00	6,472.25	5,425.00	5,425.00	94.71	93.77	92.00	-5,559.12	5,653.96	7,431.27	7,245.67	185.60	40.040		
8,100.00	6,548.22	5,425.00	5,425.00	96.12	93.77	92.00	-5,559.12	5,653.96	7,452.71	7,266.12	186.59	39.942		
8,200.00	6,624.20	5,425.00	5,425.00	97.54	93.77	92.00	-5,559.12	5,653.96	7,475.43	7,287.87	187.55	39.858		
8,300.00	6,700.18	5,425.00	5,425.00	98.95	93.77	92.00	-5,559.12	5,653.96	7,499.41	7,310.92	188.48	39.788		
8,400.00	6,776.16	5,425.00	5,425.00	100.37	93.77	92.00	-5,559.12	5,653.96	7,524.64	7,335.26	189.39	39.732		
8,500.00	6,852.13	5,425.00	5,425.00	101.78	93.77	92.00	-5,559.12	5,653.96	7,551.12	7,360.86	190.26	39.688		
8,600.00	6,928.11	5,425.00	5,425.00	103.20	93.77	92.00	-5,559.12	5,653.96	7,578.82	7,387.72	191.10	39.658		
8,700.00	7,004.09	5,425.00	5,425.00	104.61	93.77	92.00	-5,559.12	5,653.96	7,607.74	7,415.82	191.92	39.640		
8,800.00	7,080.06	5,425.00	5,425.00	106.02	93.77	92.00	-5,559.12	5,653.96	7,637.86	7,445.15	192.71	39.635		
8,900.00	7,156.04	5,425.00	5,425.00	107.44	93.77	92.00	-5,559.12	5,653.96	7,669.16	7,475.70	193.46	39.641		
9,000.00	7,232.02	5,425.00	5,425.00	108.85	93.77	92.00	-5,559.12	5,653.96	7,701.63	7,507.44	194.19	39.660		
9,104.68	7,311.55	5,425.00	5,425.00	110.33	93.77	92.00	-5,559.12	5,653.96	7,736.86	7,541.94	194.93	39.691		
9,150.00	7,346.29	5,425.00	5,425.00	110.97	93.77	87.15	-5,559.12	5,653.96	7,750.87	7,555.64	195.23	39.701		
9,200.00	7,385.15	5,425.00	5,425.00	111.65	93.77	81.35	-5,559.12	5,653.96	7,762.73	7,567.18	195.56	39.695		
9,250.00	7,424.29	5,425.00	5,425.00	112.31	93.77	75.28	-5,559.12	5,653.96	7,770.77	7,574.90	195.87	39.674		
9,300.00	7,463.40	5,425.00	5,425.00	112.93	93.77	69.12	-5,559.12	5,653.96	7,774.93	7,578.78	196.15	39.637		
9,350.00	7,502.19	5,425.00	5,425.00	113.51	93.77	63.07	-5,559.12	5,653.96	7,775.18	7,578.77	196.41	39.587		
9,400.00	7,540.36	5,425.00	5,425.00	114.04	93.77	57.29	-5,559.12	5,653.96	7,771.53	7,574.90	196.63	39.524		
9,450.00	7,577.62	5,425.00	5,425.00	114.53	93.77	51.89	-5,559.12	5,653.96	7,763.99	7,567.17	196.81	39.448		
9,500.00	7,613.70	5,425.00	5,425.00	114.95	93.77	46.92	-5,559.12	5,653.96	7,752.61	7,555.65	196.96	39.361		
9,550.00	7,648.30	5,425.00	5,425.00	115.32	93.77	42.38	-5,559.12	5,653.96	7,737.47	7,540.40	197.07	39.263		
9,600.00	7,681.18	5,425.00	5,425.00	115.63	93.77	38.23	-5,559.12	5,653.96	7,718.65	7,521.52	197.13	39.155		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,650.00	7,712.08	5,425.00	5,425.00	115.88	93.77	34.43	-5,559.12	5,653.96	7,696.28	7,499.12	197.16	39.036		
9,700.00	7,740.76	5,425.00	5,425.00	116.08	93.77	30.91	-5,559.12	5,653.96	7,670.48	7,473.34	197.14	38.908		
9,750.00	7,767.01	5,425.00	5,425.00	116.23	93.77	27.56	-5,559.12	5,653.96	7,641.44	7,444.34	197.09	38.770		
9,800.00	7,790.63	5,425.00	5,425.00	116.33	93.77	24.31	-5,559.12	5,653.96	7,609.32	7,412.31	197.01	38.623		
9,850.00	7,811.44	5,425.00	5,425.00	116.38	93.77	21.03	-5,559.12	5,653.96	7,574.34	7,377.44	196.90	38.467		
9,900.00	7,829.28	5,425.00	5,425.00	116.38	93.77	17.58	-5,559.12	5,653.96	7,536.73	7,339.96	196.77	38.302		
9,950.00	7,844.01	5,425.00	5,425.00	116.35	93.77	13.76	-5,559.12	5,653.96	7,496.73	7,300.11	196.62	38.129		
10,000.00	7,855.52	5,425.00	5,425.00	116.28	93.77	9.31	-5,559.12	5,653.96	7,454.61	7,258.16	196.45	37.947		
10,050.00	7,863.72	5,425.00	5,425.00	116.18	93.77	3.83	-5,559.12	5,653.96	7,410.66	7,214.39	196.27	37.758		
10,100.00	7,868.56	5,425.00	5,425.00	116.06	93.77	-3.27	-5,559.12	5,653.96	7,365.19	7,169.10	196.09	37.560		
10,145.94	7,870.00	5,425.00	5,425.00	115.92	93.77	-11.91	-5,559.12	5,653.96	7,322.35	7,126.42	195.92	37.373		
10,200.00	7,870.00	5,425.00	5,425.00	115.76	93.77	-11.91	-5,559.12	5,653.96	7,271.45	7,075.72	195.73	37.150		
10,300.00	7,870.00	5,425.00	5,425.00	115.46	93.77	-11.91	-5,559.12	5,653.96	7,177.43	6,982.06	195.36	36.739		
10,400.00	7,870.00	5,425.00	5,425.00	115.18	93.77	-11.91	-5,559.12	5,653.96	7,083.57	6,888.58	194.99	36.329		
10,500.00	7,870.00	5,425.00	5,425.00	114.91	93.77	-11.91	-5,559.12	5,653.96	6,989.88	6,795.28	194.60	35.920		
10,600.00	7,870.00	5,425.00	5,425.00	114.65	93.77	-11.91	-5,559.12	5,653.96	6,896.36	6,702.17	194.19	35.513		
10,700.00	7,870.00	5,425.00	5,425.00	114.41	93.77	-11.91	-5,559.12	5,653.96	6,803.04	6,609.26	193.78	35.108		
10,800.00	7,870.00	5,425.00	5,425.00	114.17	93.77	-11.91	-5,559.12	5,653.96	6,709.90	6,516.55	193.35	34.704		
10,900.00	7,870.00	5,425.00	5,425.00	113.95	93.77	-11.91	-5,559.12	5,653.96	6,616.96	6,424.06	192.90	34.303		
11,000.00	7,870.00	5,425.00	5,425.00	113.75	93.77	-11.91	-5,559.12	5,653.96	6,524.24	6,331.80	192.44	33.903		
11,100.00	7,870.00	5,425.00	5,425.00	113.55	93.77	-11.91	-5,559.12	5,653.96	6,431.73	6,239.76	191.96	33.505		
11,200.00	7,870.00	5,425.00	5,425.00	113.37	93.77	-11.91	-5,559.12	5,653.96	6,339.45	6,147.98	191.47	33.109		
11,300.00	7,870.00	5,425.00	5,425.00	113.20	93.77	-11.91	-5,559.12	5,653.96	6,247.40	6,056.44	190.96	32.715		
11,400.00	7,870.00	5,425.00	5,425.00	113.04	93.77	-11.91	-5,559.12	5,653.96	6,155.61	5,965.17	190.43	32.324		
11,500.00	7,870.00	5,425.00	5,425.00	112.89	93.77	-11.91	-5,559.12	5,653.96	6,064.07	5,874.19	189.89	31.935		
11,600.00	7,870.00	5,425.00	5,425.00	112.76	93.77	-11.91	-5,559.12	5,653.96	5,972.81	5,783.49	189.32	31.549		
11,700.00	7,870.00	5,425.00	5,425.00	112.64	93.77	-11.91	-5,559.12	5,653.96	5,881.83	5,693.10	188.73	31.165		
11,800.00	7,870.00	5,425.00	5,425.00	112.53	93.77	-11.91	-5,559.12	5,653.96	5,791.14	5,603.02	188.12	30.784		
11,900.00	7,870.00	5,425.00	5,425.00	112.44	93.77	-11.91	-5,559.12	5,653.96	5,700.77	5,513.29	187.48	30.407		
12,000.00	7,870.00	5,425.00	5,425.00	112.36	93.77	-11.91	-5,559.12	5,653.96	5,610.73	5,423.90	186.83	30.032		
12,100.00	7,870.00	5,425.00	5,425.00	112.29	93.77	-11.91	-5,559.12	5,653.96	5,521.03	5,334.88	186.14	29.660		
12,200.00	7,870.00	5,425.00	5,425.00	112.24	93.77	-11.91	-5,559.12	5,653.96	5,431.68	5,246.25	185.43	29.292		
12,300.00	7,870.00	5,425.00	5,425.00	112.20	93.77	-11.91	-5,559.12	5,653.96	5,342.72	5,158.03	184.69	28.928		
12,400.00	7,870.00	5,425.00	5,425.00	112.17	93.77	-11.91	-5,559.12	5,653.96	5,254.15	5,070.23	183.92	28.567		
12,500.00	7,870.00	5,425.00	5,425.00	112.16	93.77	-11.91	-5,559.12	5,653.96	5,166.00	4,982.87	183.13	28.210		
12,600.00	7,870.00	5,425.00	5,425.00	112.17	93.77	-11.91	-5,559.12	5,653.96	5,078.29	4,896.00	182.29	27.858		
12,700.00	7,870.00	5,425.00	5,425.00	112.19	93.77	-11.91	-5,559.12	5,653.96	4,991.04	4,809.61	181.43	27.510		
12,800.00	7,870.00	5,425.00	5,425.00	112.23	93.77	-11.91	-5,559.12	5,653.96	4,904.28	4,723.75	180.52	27.167		
12,900.00	7,870.00	5,425.00	5,425.00	112.28	93.77	-11.91	-5,559.12	5,653.96	4,818.03	4,638.44	179.58	26.829		
13,000.00	7,870.00	5,425.00	5,425.00	112.36	93.77	-11.91	-5,559.12	5,653.96	4,732.32	4,553.72	178.61	26.496		
13,100.00	7,870.00	5,425.00	5,425.00	112.45	93.77	-11.91	-5,559.12	5,653.96	4,647.18	4,469.60	177.58	26.169		
13,200.00	7,870.00	5,425.00	5,425.00	112.56	93.77	-11.91	-5,559.12	5,653.96	4,562.65	4,386.13	176.52	25.848		
13,300.00	7,870.00	5,425.00	5,425.00	112.68	93.77	-11.91	-5,559.12	5,653.96	4,478.75	4,303.34	175.41	25.533		
13,400.00	7,870.00	5,425.00	5,425.00	112.83	93.77	-11.91	-5,559.12	5,653.96	4,395.53	4,221.28	174.25	25.225		
13,500.00	7,870.00	5,425.00	5,425.00	113.00	93.77	-11.91	-5,559.12	5,653.96	4,313.02	4,139.97	173.05	24.924		
13,600.00	7,870.00	5,425.00	5,425.00	113.19	93.77	-11.91	-5,559.12	5,653.96	4,231.27	4,059.48	171.79	24.631		
13,700.00	7,870.00	5,425.00	5,425.00	113.40	93.77	-11.91	-5,559.12	5,653.96	4,150.31	3,979.83	170.48	24.345		
13,800.00	7,870.00	5,425.00	5,425.00	113.63	93.77	-11.91	-5,559.12	5,653.96	4,070.20	3,901.09	169.11	24.068		
13,900.00	7,870.00	5,425.00	5,425.00	113.89	93.77	-11.91	-5,559.12	5,653.96	3,990.99	3,823.30	167.68	23.801		
14,000.00	7,870.00	5,425.00	5,425.00	114.18	93.77	-11.91	-5,559.12	5,653.96	3,912.73	3,746.53	166.20	23.542		
14,100.00	7,870.00	5,425.00	5,425.00	114.48	93.77	-11.91	-5,559.12	5,653.96	3,835.48	3,670.83	164.65	23.294		
14,200.00	7,870.00	5,425.00	5,425.00	114.82	93.77	-11.91	-5,559.12	5,653.96	3,759.30	3,596.26	163.05	23.057		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,300.00	7,870.00	5,425.00	5,425.00	115.18	93.77	-11.91	-5,559.12	5,653.96	3,684.27	3,522.90	161.37	22.831		
14,400.00	7,870.00	5,425.00	5,425.00	115.57	93.77	-11.91	-5,559.12	5,653.96	3,610.44	3,450.81	159.64	22.617		
14,500.00	7,870.00	5,425.00	5,425.00	115.99	93.77	-11.91	-5,559.12	5,653.96	3,537.90	3,380.07	157.83	22.415		
14,600.00	7,870.00	5,425.00	5,425.00	116.44	93.77	-11.91	-5,559.12	5,653.96	3,466.73	3,310.76	155.97	22.227		
14,700.00	7,870.00	5,425.00	5,425.00	116.92	93.77	-11.91	-5,559.12	5,653.96	3,397.01	3,242.97	154.04	22.053		
14,800.00	7,870.00	5,425.00	5,425.00	117.44	93.77	-11.91	-5,559.12	5,653.96	3,328.83	3,176.79	152.04	21.894		
14,900.00	7,870.00	5,425.00	5,425.00	117.98	93.77	-11.91	-5,559.12	5,653.96	3,262.30	3,112.30	149.99	21.750		
15,000.00	7,870.00	5,425.00	5,425.00	118.56	93.77	-11.91	-5,559.12	5,653.96	3,197.51	3,049.62	147.89	21.621		
15,100.00	7,870.00	5,425.00	5,425.00	119.17	93.77	-11.91	-5,559.12	5,653.96	3,134.57	2,988.83	145.73	21.509		
15,200.00	7,870.00	5,425.00	5,425.00	119.81	93.77	-11.91	-5,559.12	5,653.96	3,073.59	2,930.06	143.53	21.414		
15,300.00	7,870.00	5,425.00	5,425.00	120.48	93.77	-11.91	-5,559.12	5,653.96	3,014.70	2,873.40	141.30	21.335		
15,400.00	7,870.00	5,425.00	5,425.00	121.19	93.77	-11.91	-5,559.12	5,653.96	2,958.02	2,818.97	139.05	21.273		
15,500.00	7,870.00	5,425.00	5,425.00	121.93	93.77	-11.91	-5,559.12	5,653.96	2,903.68	2,766.89	136.78	21.228		
15,600.00	7,870.00	5,425.00	5,425.00	122.71	93.77	-11.91	-5,559.12	5,653.96	2,851.81	2,717.28	134.52	21.199		
15,700.00	7,870.00	5,425.00	5,425.00	123.52	93.77	-11.91	-5,559.12	5,653.96	2,802.55	2,670.26	132.29	21.186		
15,800.00	7,870.00	5,425.00	5,425.00	124.36	93.77	-11.91	-5,559.12	5,653.96	2,756.03	2,625.94	130.09	21.186		
15,900.00	7,870.00	5,425.00	5,425.00	125.23	93.77	-11.91	-5,559.12	5,653.96	2,712.41	2,584.46	127.96	21.198		
16,000.00	7,870.00	5,425.00	5,425.00	126.14	93.77	-11.91	-5,559.12	5,653.96	2,671.82	2,545.91	125.91	21.220		
16,100.00	7,870.00	5,425.00	5,425.00	127.07	93.77	-11.91	-5,559.12	5,653.96	2,634.41	2,510.42	123.99	21.247		
16,200.00	7,870.00	5,425.00	5,425.00	128.04	93.77	-11.91	-5,559.12	5,653.96	2,600.30	2,478.09	122.21	21.277		
16,300.00	7,870.00	5,425.00	5,425.00	129.04	93.77	-11.91	-5,559.12	5,653.96	2,569.63	2,449.01	120.63	21.302		
16,400.00	7,870.00	5,425.00	5,425.00	130.06	93.77	-11.91	-5,559.12	5,653.96	2,542.53	2,423.26	119.27	21.317		
16,500.00	7,870.00	5,425.00	5,425.00	131.11	93.77	-11.91	-5,559.12	5,653.96	2,519.11	2,400.92	118.19	21.313		
16,600.00	7,870.00	5,425.00	5,425.00	132.19	93.77	-11.91	-5,559.12	5,653.96	2,499.48	2,382.02	117.46	21.280		
16,700.00	7,870.00	5,425.00	5,425.00	133.29	93.77	-11.91	-5,559.12	5,653.96	2,483.72	2,366.60	117.12	21.206		
16,800.00	7,870.00	5,425.00	5,425.00	134.42	93.77	-11.91	-5,559.12	5,653.96	2,471.90	2,354.65	117.26	21.081		
16,900.00	7,870.00	5,425.00	5,425.00	135.57	93.77	-11.91	-5,559.12	5,653.96	2,464.10	2,346.17	117.93	20.895		
17,000.00	7,870.00	5,425.00	5,425.00	136.75	93.77	-11.91	-5,559.12	5,653.96	2,460.33	2,341.15	119.18	20.643		
17,042.70	7,870.00	5,425.00	5,425.00	137.25	93.77	-11.91	-5,559.12	5,653.96	2,459.96	2,340.06	119.90	20.517 CC		
17,100.00	7,870.00	5,425.00	5,425.00	137.94	93.77	-11.91	-5,559.12	5,653.96	2,460.63	2,339.59	121.04	20.330 ES		
17,200.00	7,870.00	5,425.00	5,425.00	139.16	93.77	-11.91	-5,559.12	5,653.96	2,464.99	2,341.52	123.46	19.965		
17,300.00	7,870.00	5,425.00	5,425.00	140.39	93.77	-11.91	-5,559.12	5,653.96	2,473.38	2,346.98	126.40	19.568		
17,400.00	7,870.00	5,425.00	5,425.00	141.65	93.77	-11.91	-5,559.12	5,653.96	2,485.77	2,356.02	129.76	19.157		
17,500.00	7,870.00	5,425.00	5,425.00	142.92	93.77	-11.91	-5,559.12	5,653.96	2,502.11	2,368.68	133.43	18.752		
17,600.00	7,870.00	5,425.00	5,425.00	144.21	93.77	-11.91	-5,559.12	5,653.96	2,522.30	2,384.98	137.32	18.368		
17,700.00	7,870.00	5,425.00	5,425.00	145.52	93.77	-11.91	-5,559.12	5,653.96	2,546.26	2,404.92	141.34	18.015		
17,800.00	7,870.00	5,425.00	5,425.00	146.84	93.77	-11.91	-5,559.12	5,653.96	2,573.89	2,428.48	145.41	17.701		
17,900.00	7,870.00	5,425.00	5,425.00	148.18	93.77	-11.91	-5,559.12	5,653.96	2,605.07	2,455.59	149.47	17.428		
18,000.00	7,870.00	5,425.00	5,425.00	149.54	93.77	-11.91	-5,559.12	5,653.96	2,639.66	2,486.19	153.48	17.199		
18,100.00	7,870.00	5,425.00	5,425.00	150.90	93.77	-11.91	-5,559.12	5,653.96	2,677.55	2,520.17	157.38	17.013		
18,200.00	7,870.00	5,425.00	5,425.00	152.28	93.77	-11.91	-5,559.12	5,653.96	2,718.59	2,557.43	161.17	16.868		
18,300.00	7,870.00	5,425.00	5,425.00	153.67	93.77	-11.91	-5,559.12	5,653.96	2,762.64	2,597.84	164.80	16.763		
18,400.00	7,870.00	5,425.00	5,425.00	155.07	93.77	-11.91	-5,559.12	5,653.96	2,809.57	2,641.28	168.28	16.695		
18,500.00	7,870.00	5,425.00	5,425.00	156.49	93.77	-11.91	-5,559.12	5,653.96	2,859.22	2,687.62	171.60	16.663		
18,600.00	7,870.00	5,425.00	5,425.00	157.91	93.77	-11.91	-5,559.12	5,653.96	2,911.46	2,736.72	174.74	16.662 SF		
18,700.00	7,870.00	5,425.00	5,425.00	159.35	93.77	-11.91	-5,559.12	5,653.96	2,966.15	2,788.45	177.70	16.691		
18,800.00	7,870.00	5,425.00	5,425.00	160.79	93.77	-11.91	-5,559.12	5,653.96	3,023.16	2,842.66	180.50	16.749		
18,900.00	7,870.00	5,425.00	5,425.00	162.25	93.77	-11.91	-5,559.12	5,653.96	3,082.36	2,899.23	183.13	16.831		
19,000.00	7,870.00	5,425.00	5,425.00	163.71	93.77	-11.91	-5,559.12	5,653.96	3,143.63	2,958.03	185.60	16.938		
19,100.00	7,870.00	5,425.00	5,425.00	165.18	93.77	-11.91	-5,559.12	5,653.96	3,206.85	3,018.94	187.91	17.066		
19,200.00	7,870.00	5,425.00	5,425.00	166.66	93.77	-11.91	-5,559.12	5,653.96	3,271.90	3,081.82	190.08	17.214		
19,300.00	7,870.00	5,425.00	5,425.00	168.15	93.77	-11.91	-5,559.12	5,653.96	3,338.68	3,146.58	192.10	17.380		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 2 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,870.00	5,425.00	5,425.00	169.65	93.77	-11.91	-5,559.12	5,653.96	3,407.09	3,213.10	193.99	17.563	
19,500.00	7,870.00	5,425.00	5,425.00	171.15	93.77	-11.91	-5,559.12	5,653.96	3,477.03	3,281.28	195.75	17.762	
19,600.00	7,870.00	5,425.00	5,425.00	172.66	93.77	-11.91	-5,559.12	5,653.96	3,548.41	3,351.01	197.40	17.976	
19,700.00	7,870.00	5,425.00	5,425.00	174.18	93.77	-11.91	-5,559.12	5,653.96	3,621.14	3,422.21	198.93	18.203	
19,800.00	7,870.00	5,425.00	5,425.00	175.70	93.77	-11.91	-5,559.12	5,653.96	3,695.15	3,494.79	200.36	18.443	
19,889.26	7,870.00	5,425.00	5,425.00	177.06	93.77	-11.91	-5,559.12	5,653.96	3,762.22	3,560.66	201.55	18.666	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	134.35	-4,237.02	4,334.34	6,061.36					
100.00	100.00	66.00	66.00	0.13	0.52	134.35	-4,237.02	4,334.34	6,061.26	6,060.61	0.65	9,285.156		
200.00	200.00	166.00	166.00	0.49	1.94	134.35	-4,237.02	4,334.34	6,061.26	6,058.83	2.43	2,494.125		
300.00	300.00	266.00	266.00	0.85	3.68	134.35	-4,237.02	4,334.34	6,061.26	6,056.73	4.53	1,336.841		
400.00	399.98	365.98	365.98	1.21	5.43	66.23	-4,237.02	4,334.34	6,060.56	6,053.92	6.63	913.696		
500.00	499.84	465.84	465.84	1.56	7.17	66.32	-4,237.02	4,334.34	6,058.45	6,049.72	8.73	693.846		
600.00	599.45	565.45	565.45	1.93	8.91	66.46	-4,237.02	4,334.34	6,054.95	6,044.11	10.84	558.777		
700.00	698.70	664.70	664.70	2.32	10.64	66.65	-4,237.02	4,334.34	6,050.07	6,037.12	12.95	467.248		
800.00	797.47	763.47	763.47	2.72	12.37	66.90	-4,237.02	4,334.34	6,043.83	6,028.76	15.07	401.011		
900.00	895.62	861.62	861.62	3.16	14.08	67.20	-4,237.02	4,334.34	6,036.27	6,019.06	17.21	350.763		
1,000.00	993.06	959.06	959.06	3.63	15.78	67.56	-4,237.02	4,334.34	6,027.43	6,008.06	19.36	311.267		
1,100.00	1,089.64	1,055.64	1,055.64	4.14	17.46	67.97	-4,237.02	4,334.34	6,017.34	5,995.80	21.54	279.352		
1,200.00	1,185.27	1,151.27	1,151.27	4.70	19.13	68.43	-4,237.02	4,334.34	6,006.06	5,982.32	23.74	252.987		
1,300.00	1,279.82	1,245.82	1,245.82	5.31	20.78	68.94	-4,237.02	4,334.34	5,993.64	5,967.67	25.97	230.811		
1,400.00	1,373.17	1,339.17	1,339.17	5.97	22.41	69.50	-4,237.02	4,334.34	5,980.14	5,951.92	28.22	211.878		
1,500.00	1,465.21	1,431.21	1,431.21	6.69	24.02	70.10	-4,237.02	4,334.34	5,965.63	5,935.12	30.51	195.511		
1,600.00	1,555.84	1,521.84	1,521.84	7.47	25.60	70.74	-4,237.02	4,334.34	5,950.19	5,917.36	32.84	181.212		
1,700.00	1,644.94	1,610.94	1,610.94	8.31	27.16	71.43	-4,237.02	4,334.34	5,933.90	5,898.71	35.19	168.607		
1,800.00	1,732.39	1,701.61	1,698.39	9.23	28.74	72.15	-4,237.02	4,334.34	5,916.83	5,879.19	37.64	157.176		
1,900.00	1,818.11	1,784.11	1,784.11	10.21	30.18	72.91	-4,237.02	4,334.34	5,899.08	5,859.06	40.02	147.396		
2,000.00	1,901.97	1,867.97	1,867.97	11.26	31.64	73.70	-4,237.02	4,334.34	5,880.75	5,838.25	42.49	138.389		
2,100.00	1,983.88	1,949.88	1,949.88	12.38	33.07	74.52	-4,237.02	4,334.34	5,861.92	5,816.92	45.01	130.247		
2,200.00	2,063.74	2,029.74	2,029.74	13.57	34.47	75.36	-4,237.02	4,334.34	5,842.71	5,795.15	47.56	122.854		
2,300.00	2,141.45	2,107.45	2,107.45	14.84	35.82	76.22	-4,237.02	4,334.34	5,823.22	5,773.07	50.15	116.117		
2,327.78	2,162.65	2,128.65	2,128.65	15.21	36.19	76.46	-4,237.02	4,334.34	5,817.77	5,766.89	50.88	114.353		
2,400.00	2,217.51	2,183.51	2,183.51	16.17	37.15	76.81	-4,237.02	4,334.34	5,803.75	5,750.98	52.77	109.974		
2,500.00	2,293.49	2,259.49	2,259.49	17.51	38.48	77.30	-4,237.02	4,334.34	5,784.93	5,729.50	55.42	104.379		
2,600.00	2,369.47	2,335.47	2,335.47	18.86	39.80	77.78	-4,237.02	4,334.34	5,766.77	5,708.68	58.09	99.276		
2,700.00	2,445.45	2,411.45	2,411.45	20.22	41.13	78.27	-4,237.02	4,334.34	5,749.29	5,688.52	60.77	94.608		
2,800.00	2,521.42	2,487.42	2,487.42	21.59	42.45	78.76	-4,237.02	4,334.34	5,732.50	5,669.03	63.46	90.326		
2,900.00	2,597.40	2,563.40	2,563.40	22.97	43.78	79.25	-4,237.02	4,334.34	5,716.39	5,650.22	66.17	86.388		
3,000.00	2,673.38	2,639.38	2,639.38	24.34	45.11	79.75	-4,237.02	4,334.34	5,700.98	5,632.10	68.89	82.758		
3,100.00	2,749.36	2,715.36	2,715.36	25.73	46.43	80.24	-4,237.02	4,334.34	5,686.28	5,614.66	71.61	79.403		
3,200.00	2,825.33	2,808.67	2,791.33	27.11	48.06	80.74	-4,237.02	4,334.34	5,672.28	5,597.63	74.65	75.986		
3,300.00	2,901.31	2,867.31	2,867.31	28.50	49.08	81.24	-4,237.02	4,334.34	5,658.99	5,581.91	77.09	73.411		
3,400.00	2,977.29	2,943.29	2,943.29	29.90	50.41	81.74	-4,237.02	4,334.34	5,646.42	5,566.59	79.83	70.728		
3,500.00	3,053.27	3,019.27	3,019.27	31.29	51.74	82.24	-4,237.02	4,334.34	5,634.58	5,551.99	82.58	68.229		
3,600.00	3,129.24	3,104.76	3,095.24	32.69	53.23	82.74	-4,237.02	4,334.34	5,623.46	5,537.95	85.50	65.768		
3,700.00	3,205.22	3,171.22	3,171.22	34.08	54.39	83.24	-4,237.02	4,334.34	5,613.07	5,524.97	88.10	63.714		
3,800.00	3,281.20	3,247.20	3,247.20	35.48	55.71	83.74	-4,237.02	4,334.34	5,603.41	5,512.55	90.86	61.671		
3,900.00	3,357.18	3,323.18	3,323.18	36.88	57.04	84.25	-4,237.02	4,334.34	5,594.50	5,500.87	93.62	59.756		
4,000.00	3,433.15	3,400.85	3,399.15	38.29	58.40	84.75	-4,237.02	4,334.34	5,586.33	5,489.91	96.42	57.939		
4,100.00	3,509.13	3,475.13	3,475.13	39.69	59.69	85.26	-4,237.02	4,334.34	5,578.90	5,479.75	99.15	56.265		
4,200.00	3,585.11	3,551.11	3,551.11	41.09	61.02	85.77	-4,237.02	4,334.34	5,572.22	5,470.30	101.92	54.673		
4,300.00	3,661.08	3,627.08	3,627.08	42.50	62.34	86.28	-4,237.02	4,334.34	5,566.30	5,461.61	104.68	53.172		
4,400.00	3,737.06	3,703.06	3,703.06	43.90	63.67	86.78	-4,237.02	4,334.34	5,561.12	5,453.68	107.45	51.756		
4,500.00	3,813.04	3,779.04	3,779.04	45.31	65.00	87.29	-4,237.02	4,334.34	5,556.71	5,446.50	110.21	50.419		
4,600.00	3,889.02	3,855.02	3,855.02	46.71	66.32	87.80	-4,237.02	4,334.34	5,553.05	5,440.08	112.97	49.155		
4,700.00	3,964.99	3,930.99	3,930.99	48.12	67.65	88.31	-4,237.02	4,334.34	5,550.15	5,434.42	115.73	47.959		
4,800.00	4,040.97	4,006.97	4,006.97	49.53	68.97	88.82	-4,237.02	4,334.34	5,548.01	5,429.53	118.48	46.827		
4,900.00	4,116.95	4,082.95	4,082.95	50.94	70.30	89.33	-4,237.02	4,334.34	5,546.63	5,425.41	121.23	45.754		
5,000.00	4,192.93	4,158.93	4,158.93	52.35	71.63	89.84	-4,237.02	4,334.34	5,546.02	5,422.05	123.97	44.737		

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

Anticollision Report

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Site Error:	0.00 usft	North Reference:	True
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Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 3 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,030.69	4,216.25	4,182.25	4,182.25	52.78	72.03	90.00	-4,237.02	4,334.34	5,545.98	5,421.17	124.81	44.435		
5,100.00	4,268.90	4,234.90	4,234.90	53.76	72.95	90.35	-4,237.02	4,334.34	5,546.17	5,419.46	126.71	43.771		
5,200.00	4,344.88	4,310.88	4,310.88	55.16	74.28	90.86	-4,237.02	4,334.34	5,547.08	5,417.64	129.44	42.854		
5,300.00	4,420.86	4,386.86	4,386.86	56.57	75.61	91.37	-4,237.02	4,334.34	5,548.75	5,416.58	132.17	41.983		
5,400.00	4,496.84	4,462.84	4,462.84	57.98	76.93	91.88	-4,237.02	4,334.34	5,551.18	5,416.30	134.88	41.155		
5,500.00	4,572.81	4,538.81	4,538.81	59.39	78.26	92.39	-4,237.02	4,334.34	5,554.37	5,416.78	137.59	40.368		
5,600.00	4,648.79	4,614.79	4,614.79	60.81	79.58	92.90	-4,237.02	4,334.34	5,558.32	5,418.03	140.30	39.618		
5,700.00	4,724.77	4,709.23	4,690.77	62.22	81.23	93.41	-4,237.02	4,334.34	5,563.03	5,419.72	143.31	38.817		
5,800.00	4,800.74	4,766.74	4,766.74	63.63	82.24	93.92	-4,237.02	4,334.34	5,568.49	5,422.82	145.68	38.225		
5,900.00	4,876.72	4,842.72	4,842.72	65.04	83.56	94.43	-4,237.02	4,334.34	5,574.71	5,426.36	148.35	37.578		
6,000.00	4,952.70	4,918.70	4,918.70	66.45	84.89	94.93	-4,237.02	4,334.34	5,581.68	5,430.66	151.02	36.961		
6,100.00	5,028.68	5,005.32	4,994.68	67.86	86.40	95.44	-4,237.02	4,334.34	5,589.39	5,435.53	153.86	36.328		
6,200.00	5,104.65	5,070.65	5,070.65	69.27	87.54	95.95	-4,237.02	4,334.34	5,597.85	5,441.54	156.32	35.811		
6,300.00	5,180.63	5,146.63	5,146.63	70.69	88.87	96.45	-4,237.02	4,334.34	5,607.05	5,448.10	158.95	35.276		
6,400.00	5,256.61	5,222.61	5,222.61	72.10	90.19	96.95	-4,237.02	4,334.34	5,616.99	5,455.42	161.57	34.765		
6,500.00	5,332.59	5,301.41	5,298.59	73.51	91.57	97.46	-4,237.02	4,334.34	5,627.66	5,463.43	164.23	34.267		
6,600.00	5,408.56	5,374.56	5,374.56	74.92	92.84	97.96	-4,237.02	4,334.34	5,639.06	5,472.29	166.78	33.812		
6,700.00	5,484.54	5,450.54	5,450.54	76.34	94.17	98.46	-4,237.02	4,334.34	5,651.19	5,481.83	169.36	33.367		
6,800.00	5,560.52	5,450.00	5,450.00	77.75	94.16	98.45	-4,237.02	4,334.34	5,664.55	5,493.99	170.56	33.211		
6,900.00	5,636.50	5,450.00	5,450.00	79.16	94.16	98.45	-4,237.02	4,334.34	5,679.65	5,507.92	171.73	33.074		
7,000.00	5,712.47	5,450.00	5,450.00	80.57	94.16	98.45	-4,237.02	4,334.34	5,696.46	5,523.61	172.84	32.957		
7,100.00	5,788.45	5,450.00	5,450.00	81.99	94.16	98.45	-4,237.02	4,334.34	5,714.97	5,541.05	173.92	32.860		
7,200.00	5,864.43	5,450.00	5,450.00	83.40	94.16	98.45	-4,237.02	4,334.34	5,735.16	5,560.22	174.94	32.783		
7,300.00	5,940.40	5,450.00	5,450.00	84.81	94.16	98.45	-4,237.02	4,334.34	5,757.02	5,581.09	175.92	32.724		
7,400.00	6,016.38	5,450.00	5,450.00	86.23	94.16	98.45	-4,237.02	4,334.34	5,780.53	5,603.67	176.86	32.684		
7,500.00	6,092.36	5,450.00	5,450.00	87.64	94.16	98.45	-4,237.02	4,334.34	5,805.66	5,627.91	177.75	32.662		
7,600.00	6,168.34	5,450.00	5,450.00	89.05	94.16	98.45	-4,237.02	4,334.34	5,832.40	5,653.81	178.60	32.656		
7,700.00	6,244.31	5,450.00	5,450.00	90.47	94.16	98.45	-4,237.02	4,334.34	5,860.73	5,681.33	179.40	32.668		
7,800.00	6,320.29	5,450.00	5,450.00	91.88	94.16	98.45	-4,237.02	4,334.34	5,890.62	5,710.46	180.16	32.697		
7,900.00	6,396.27	5,450.00	5,450.00	93.30	94.16	98.45	-4,237.02	4,334.34	5,922.04	5,741.17	180.88	32.741		
8,000.00	6,472.25	5,450.00	5,450.00	94.71	94.16	98.45	-4,237.02	4,334.34	5,954.98	5,773.43	181.55	32.801		
8,100.00	6,548.22	5,450.00	5,450.00	96.12	94.16	98.45	-4,237.02	4,334.34	5,989.41	5,807.23	182.18	32.876		
8,200.00	6,624.20	5,450.00	5,450.00	97.54	94.16	98.45	-4,237.02	4,334.34	6,025.30	5,842.53	182.77	32.966		
8,300.00	6,700.18	5,450.00	5,450.00	98.95	94.16	98.45	-4,237.02	4,334.34	6,062.63	5,879.30	183.33	33.070		
8,400.00	6,776.16	5,450.00	5,450.00	100.37	94.16	98.45	-4,237.02	4,334.34	6,101.37	5,917.53	183.84	33.188		
8,500.00	6,852.13	5,450.00	5,450.00	101.78	94.16	98.45	-4,237.02	4,334.34	6,141.49	5,957.17	184.32	33.320		
8,600.00	6,928.11	5,450.00	5,450.00	103.20	94.16	98.45	-4,237.02	4,334.34	6,182.97	5,998.21	184.76	33.465		
8,700.00	7,004.09	5,450.00	5,450.00	104.61	94.16	98.45	-4,237.02	4,334.34	6,225.78	6,040.62	185.17	33.623		
8,800.00	7,080.06	5,450.00	5,450.00	106.02	94.16	98.45	-4,237.02	4,334.34	6,269.89	6,084.36	185.54	33.793		
8,900.00	7,156.04	5,450.00	5,450.00	107.44	94.16	98.45	-4,237.02	4,334.34	6,315.28	6,129.40	185.88	33.975		
9,000.00	7,232.02	5,450.00	5,450.00	108.85	94.16	98.45	-4,237.02	4,334.34	6,361.92	6,175.73	186.19	34.169		
9,104.68	7,311.55	5,450.00	5,450.00	110.33	94.16	98.45	-4,237.02	4,334.34	6,412.05	6,225.57	186.48	34.385		
9,150.00	7,346.29	5,450.00	5,450.00	110.97	94.16	93.56	-4,237.02	4,334.34	6,432.59	6,245.99	186.59	34.474		
9,200.00	7,385.15	5,450.00	5,450.00	111.65	94.16	87.75	-4,237.02	4,334.34	6,451.82	6,265.11	186.71	34.555		
9,250.00	7,424.29	5,450.00	5,450.00	112.31	94.16	81.70	-4,237.02	4,334.34	6,467.35	6,280.53	186.82	34.619		
9,300.00	7,463.40	5,450.00	5,450.00	112.93	94.16	75.60	-4,237.02	4,334.34	6,479.07	6,292.17	186.90	34.665		
9,350.00	7,502.19	5,450.00	5,450.00	113.51	94.16	69.65	-4,237.02	4,334.34	6,486.93	6,299.96	186.97	34.695		
9,400.00	7,540.36	5,450.00	5,450.00	114.04	94.16	64.01	-4,237.02	4,334.34	6,490.87	6,303.87	187.01	34.709		
9,450.00	7,577.62	5,450.00	5,450.00	114.53	94.16	58.80	-4,237.02	4,334.34	6,490.88	6,303.87	187.01	34.708		
9,500.00	7,613.70	5,450.00	5,450.00	114.95	94.16	54.07	-4,237.02	4,334.34	6,486.95	6,299.96	186.99	34.691		
9,550.00	7,648.30	5,450.00	5,450.00	115.32	94.16	49.83	-4,237.02	4,334.34	6,479.11	6,292.18	186.94	34.659		
9,600.00	7,681.18	5,450.00	5,450.00	115.63	94.16	46.07	-4,237.02	4,334.34	6,467.40	6,280.55	186.85	34.613		

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

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 3 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,650.00	7,712.08	5,450.00	5,450.00	115.88	94.16	42.73	-4,237.02	4,334.34	6,451.89	6,265.16	186.73	34.552		
9,700.00	7,740.76	5,450.00	5,450.00	116.08	94.16	39.78	-4,237.02	4,334.34	6,432.67	6,246.09	186.58	34.477		
9,750.00	7,767.01	5,450.00	5,450.00	116.23	94.16	37.14	-4,237.02	4,334.34	6,409.86	6,223.46	186.40	34.388		
9,800.00	7,790.63	5,450.00	5,450.00	116.33	94.16	34.77	-4,237.02	4,334.34	6,383.58	6,197.39	186.20	34.284		
9,850.00	7,811.44	5,450.00	5,450.00	116.38	94.16	32.60	-4,237.02	4,334.34	6,354.01	6,168.04	185.98	34.166		
9,900.00	7,829.28	5,450.00	5,450.00	116.38	94.16	30.57	-4,237.02	4,334.34	6,321.32	6,135.58	185.74	34.034		
9,950.00	7,844.01	5,450.00	5,450.00	116.35	94.16	28.59	-4,237.02	4,334.34	6,285.71	6,100.22	185.49	33.887		
10,000.00	7,855.52	5,450.00	5,450.00	116.28	94.16	26.58	-4,237.02	4,334.34	6,247.40	6,062.17	185.23	33.727		
10,050.00	7,863.72	5,450.00	5,450.00	116.18	94.16	24.40	-4,237.02	4,334.34	6,206.64	6,021.66	184.98	33.553		
10,100.00	7,868.56	5,450.00	5,450.00	116.06	94.16	21.85	-4,237.02	4,334.34	6,163.70	5,978.97	184.73	33.365		
10,145.94	7,870.00	5,450.00	5,450.00	115.92	94.16	18.89	-4,237.02	4,334.34	6,122.57	5,938.05	184.52	33.181		
10,200.00	7,870.00	5,450.00	5,450.00	115.76	94.16	18.89	-4,237.02	4,334.34	6,073.35	5,889.07	184.27	32.959		
10,300.00	7,870.00	5,450.00	5,450.00	115.46	94.16	18.89	-4,237.02	4,334.34	5,982.52	5,798.72	183.80	32.550		
10,400.00	7,870.00	5,450.00	5,450.00	115.18	94.16	18.89	-4,237.02	4,334.34	5,891.99	5,708.69	183.30	32.144		
10,500.00	7,870.00	5,450.00	5,450.00	114.91	94.16	18.89	-4,237.02	4,334.34	5,801.77	5,618.98	182.78	31.741		
10,600.00	7,870.00	5,450.00	5,450.00	114.65	94.16	18.89	-4,237.02	4,334.34	5,711.87	5,529.63	182.25	31.342		
10,700.00	7,870.00	5,450.00	5,450.00	114.41	94.16	18.89	-4,237.02	4,334.34	5,622.32	5,440.64	181.68	30.946		
10,800.00	7,870.00	5,450.00	5,450.00	114.17	94.16	18.89	-4,237.02	4,334.34	5,533.13	5,352.03	181.10	30.553		
10,900.00	7,870.00	5,450.00	5,450.00	113.95	94.16	18.89	-4,237.02	4,334.34	5,444.31	5,263.82	180.48	30.165		
11,000.00	7,870.00	5,450.00	5,450.00	113.75	94.16	18.89	-4,237.02	4,334.34	5,355.88	5,176.04	179.84	29.781		
11,100.00	7,870.00	5,450.00	5,450.00	113.55	94.16	18.89	-4,237.02	4,334.34	5,267.87	5,088.69	179.17	29.401		
11,200.00	7,870.00	5,450.00	5,450.00	113.37	94.16	18.89	-4,237.02	4,334.34	5,180.29	5,001.82	178.47	29.025		
11,300.00	7,870.00	5,450.00	5,450.00	113.20	94.16	18.89	-4,237.02	4,334.34	5,093.17	4,915.43	177.74	28.655		
11,400.00	7,870.00	5,450.00	5,450.00	113.04	94.16	18.89	-4,237.02	4,334.34	5,006.54	4,829.56	176.98	28.290		
11,500.00	7,870.00	5,450.00	5,450.00	112.89	94.16	18.89	-4,237.02	4,334.34	4,920.41	4,744.24	176.17	27.930		
11,600.00	7,870.00	5,450.00	5,450.00	112.76	94.16	18.89	-4,237.02	4,334.34	4,834.81	4,659.48	175.33	27.576		
11,700.00	7,870.00	5,450.00	5,450.00	112.64	94.16	18.89	-4,237.02	4,334.34	4,749.78	4,575.33	174.45	27.228		
11,800.00	7,870.00	5,450.00	5,450.00	112.53	94.16	18.89	-4,237.02	4,334.34	4,665.34	4,491.82	173.52	26.887		
11,900.00	7,870.00	5,450.00	5,450.00	112.44	94.16	18.89	-4,237.02	4,334.34	4,581.53	4,408.98	172.55	26.552		
12,000.00	7,870.00	5,450.00	5,450.00	112.36	94.16	18.89	-4,237.02	4,334.34	4,498.37	4,326.85	171.53	26.225		
12,100.00	7,870.00	5,450.00	5,450.00	112.29	94.16	18.89	-4,237.02	4,334.34	4,415.92	4,245.47	170.46	25.907		
12,200.00	7,870.00	5,450.00	5,450.00	112.24	94.16	18.89	-4,237.02	4,334.34	4,334.21	4,164.88	169.33	25.596		
12,300.00	7,870.00	5,450.00	5,450.00	112.20	94.16	18.89	-4,237.02	4,334.34	4,253.27	4,085.13	168.15	25.295		
12,400.00	7,870.00	5,450.00	5,450.00	112.17	94.16	18.89	-4,237.02	4,334.34	4,173.17	4,006.26	166.91	25.003		
12,500.00	7,870.00	5,450.00	5,450.00	112.16	94.16	18.89	-4,237.02	4,334.34	4,093.94	3,928.34	165.60	24.722		
12,600.00	7,870.00	5,450.00	5,450.00	112.17	94.16	18.89	-4,237.02	4,334.34	4,015.63	3,851.41	164.23	24.452		
12,700.00	7,870.00	5,450.00	5,450.00	112.19	94.16	18.89	-4,237.02	4,334.34	3,938.31	3,775.53	162.79	24.193		
12,800.00	7,870.00	5,450.00	5,450.00	112.23	94.16	18.89	-4,237.02	4,334.34	3,862.03	3,700.76	161.27	23.947		
12,900.00	7,870.00	5,450.00	5,450.00	112.28	94.16	18.89	-4,237.02	4,334.34	3,786.86	3,627.18	159.68	23.715		
13,000.00	7,870.00	5,450.00	5,450.00	112.36	94.16	18.89	-4,237.02	4,334.34	3,712.85	3,554.85	158.01	23.498		
13,100.00	7,870.00	5,450.00	5,450.00	112.45	94.16	18.89	-4,237.02	4,334.34	3,640.09	3,483.84	156.25	23.296		
13,200.00	7,870.00	5,450.00	5,450.00	112.56	94.16	18.89	-4,237.02	4,334.34	3,568.65	3,414.24	154.41	23.111		
13,300.00	7,870.00	5,450.00	5,450.00	112.68	94.16	18.89	-4,237.02	4,334.34	3,498.61	3,346.12	152.48	22.944		
13,400.00	7,870.00	5,450.00	5,450.00	112.83	94.16	18.89	-4,237.02	4,334.34	3,430.05	3,279.58	150.47	22.796		
13,500.00	7,870.00	5,450.00	5,450.00	113.00	94.16	18.89	-4,237.02	4,334.34	3,363.07	3,214.71	148.36	22.669		
13,600.00	7,870.00	5,450.00	5,450.00	113.19	94.16	18.89	-4,237.02	4,334.34	3,297.76	3,151.61	146.15	22.564		
13,700.00	7,870.00	5,450.00	5,450.00	113.40	94.16	18.89	-4,237.02	4,334.34	3,234.23	3,090.37	143.86	22.482		
13,800.00	7,870.00	5,450.00	5,450.00	113.63	94.16	18.89	-4,237.02	4,334.34	3,172.57	3,031.10	141.47	22.425		
13,900.00	7,870.00	5,450.00	5,450.00	113.89	94.16	18.89	-4,237.02	4,334.34	3,112.91	2,973.90	139.00	22.394		
14,000.00	7,870.00	5,450.00	5,450.00	114.18	94.16	18.89	-4,237.02	4,334.34	3,055.36	2,918.90	136.45	22.391		
14,100.00	7,870.00	5,450.00	5,450.00	114.48	94.16	18.89	-4,237.02	4,334.34	3,000.03	2,866.20	133.83	22.417		
14,200.00	7,870.00	5,450.00	5,450.00	114.82	94.16	18.89	-4,237.02	4,334.34	2,947.06	2,815.92	131.14	22.472		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 3 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,300.00	7,870.00	5,450.00	5,450.00	115.18	94.16	18.89	-4,237.02	4,334.34	2,896.58	2,768.17	128.40	22.558		
14,400.00	7,870.00	5,450.00	5,450.00	115.57	94.16	18.89	-4,237.02	4,334.34	2,848.71	2,723.07	125.64	22.674		
14,500.00	7,870.00	5,450.00	5,450.00	115.99	94.16	18.89	-4,237.02	4,334.34	2,803.60	2,680.74	122.86	22.820		
14,600.00	7,870.00	5,450.00	5,450.00	116.44	94.16	18.89	-4,237.02	4,334.34	2,761.37	2,641.27	120.10	22.993		
14,700.00	7,870.00	5,450.00	5,450.00	116.92	94.16	18.89	-4,237.02	4,334.34	2,722.16	2,604.77	117.38	23.191		
14,800.00	7,870.00	5,450.00	5,450.00	117.44	94.16	18.89	-4,237.02	4,334.34	2,686.10	2,571.35	114.75	23.408		
14,900.00	7,870.00	5,450.00	5,450.00	117.98	94.16	18.89	-4,237.02	4,334.34	2,653.32	2,541.08	112.24	23.639		
15,000.00	7,870.00	5,450.00	5,450.00	118.56	94.16	18.89	-4,237.02	4,334.34	2,623.95	2,514.04	109.91	23.875		
15,100.00	7,870.00	5,450.00	5,450.00	119.17	94.16	18.89	-4,237.02	4,334.34	2,598.10	2,490.30	107.79	24.103		
15,200.00	7,870.00	5,450.00	5,450.00	119.81	94.16	18.89	-4,237.02	4,334.34	2,575.87	2,469.91	105.95	24.312		
15,300.00	7,870.00	5,450.00	5,450.00	120.48	94.16	18.89	-4,237.02	4,334.34	2,557.36	2,452.91	104.45	24.485		
15,400.00	7,870.00	5,450.00	5,450.00	121.19	94.16	18.89	-4,237.02	4,334.34	2,542.65	2,439.32	103.33	24.608		
15,500.00	7,870.00	5,450.00	5,450.00	121.93	94.16	18.89	-4,237.02	4,334.34	2,531.81	2,429.17	102.64	24.666		
15,600.00	7,870.00	5,450.00	5,450.00	122.71	94.16	18.89	-4,237.02	4,334.34	2,524.89	2,422.45	102.43	24.649		
15,700.00	7,870.00	5,450.00	5,450.00	123.52	94.16	18.89	-4,237.02	4,334.34	2,521.91	2,419.19	102.72	24.551		
15,725.04	7,870.00	5,450.00	5,450.00	123.73	94.16	18.89	-4,237.02	4,334.34	2,521.79	2,418.92	102.87	24.514	CC, ES	
15,800.00	7,870.00	5,450.00	5,450.00	124.36	94.16	18.89	-4,237.02	4,334.34	2,522.90	2,419.39	103.51	24.373		
15,900.00	7,870.00	5,450.00	5,450.00	125.23	94.16	18.89	-4,237.02	4,334.34	2,527.85	2,423.06	104.79	24.124		
16,000.00	7,870.00	5,450.00	5,450.00	126.14	94.16	18.89	-4,237.02	4,334.34	2,536.73	2,430.22	106.52	23.815		
16,100.00	7,870.00	5,450.00	5,450.00	127.07	94.16	18.89	-4,237.02	4,334.34	2,549.51	2,440.86	108.65	23.466		
16,200.00	7,870.00	5,450.00	5,450.00	128.04	94.16	18.89	-4,237.02	4,334.34	2,566.13	2,455.00	111.12	23.093		
16,300.00	7,870.00	5,450.00	5,450.00	129.04	94.16	18.89	-4,237.02	4,334.34	2,586.50	2,472.63	113.88	22.713		
16,400.00	7,870.00	5,450.00	5,450.00	130.06	94.16	18.89	-4,237.02	4,334.34	2,610.55	2,493.71	116.84	22.342		
16,500.00	7,870.00	5,450.00	5,450.00	131.11	94.16	18.89	-4,237.02	4,334.34	2,638.18	2,518.21	119.96	21.991		
16,600.00	7,870.00	5,450.00	5,450.00	132.19	94.16	18.89	-4,237.02	4,334.34	2,669.26	2,546.08	123.19	21.669		
16,700.00	7,870.00	5,450.00	5,450.00	133.29	94.16	18.89	-4,237.02	4,334.34	2,703.69	2,577.24	126.46	21.380		
16,800.00	7,870.00	5,450.00	5,450.00	134.42	94.16	18.89	-4,237.02	4,334.34	2,741.34	2,611.60	129.74	21.129		
16,900.00	7,870.00	5,450.00	5,450.00	135.57	94.16	18.89	-4,237.02	4,334.34	2,782.08	2,649.07	133.00	20.918		
17,000.00	7,870.00	5,450.00	5,450.00	136.75	94.16	18.89	-4,237.02	4,334.34	2,825.76	2,689.55	136.21	20.746		
17,100.00	7,870.00	5,450.00	5,450.00	137.94	94.16	18.89	-4,237.02	4,334.34	2,872.27	2,732.92	139.35	20.613		
17,200.00	7,870.00	5,450.00	5,450.00	139.16	94.16	18.89	-4,237.02	4,334.34	2,921.46	2,779.07	142.39	20.517		
17,300.00	7,870.00	5,450.00	5,450.00	140.39	94.16	18.89	-4,237.02	4,334.34	2,973.20	2,827.86	145.34	20.457		
17,400.00	7,870.00	5,450.00	5,450.00	141.65	94.16	18.89	-4,237.02	4,334.34	3,027.36	2,879.19	148.17	20.432	SF	
17,500.00	7,870.00	5,450.00	5,450.00	142.92	94.16	18.89	-4,237.02	4,334.34	3,083.81	2,932.93	150.88	20.438		
17,600.00	7,870.00	5,450.00	5,450.00	144.21	94.16	18.89	-4,237.02	4,334.34	3,142.43	2,988.95	153.48	20.474		
17,700.00	7,870.00	5,450.00	5,450.00	145.52	94.16	18.89	-4,237.02	4,334.34	3,203.10	3,047.15	155.96	20.539		
17,800.00	7,870.00	5,450.00	5,450.00	146.84	94.16	18.89	-4,237.02	4,334.34	3,265.71	3,107.40	158.31	20.629		
17,900.00	7,870.00	5,450.00	5,450.00	148.18	94.16	18.89	-4,237.02	4,334.34	3,330.14	3,169.60	160.55	20.742		
18,000.00	7,870.00	5,450.00	5,450.00	149.54	94.16	18.89	-4,237.02	4,334.34	3,396.30	3,233.63	162.67	20.879		
18,100.00	7,870.00	5,450.00	5,450.00	150.90	94.16	18.89	-4,237.02	4,334.34	3,464.08	3,299.40	164.68	21.036		
18,200.00	7,870.00	5,450.00	5,450.00	152.28	94.16	18.89	-4,237.02	4,334.34	3,533.39	3,366.81	166.58	21.212		
18,300.00	7,870.00	5,450.00	5,450.00	153.67	94.16	18.89	-4,237.02	4,334.34	3,604.14	3,435.76	168.37	21.405		
18,400.00	7,870.00	5,450.00	5,450.00	155.07	94.16	18.89	-4,237.02	4,334.34	3,676.25	3,506.18	170.07	21.616		
18,500.00	7,870.00	5,450.00	5,450.00	156.49	94.16	18.89	-4,237.02	4,334.34	3,749.64	3,577.96	171.68	21.841		
18,600.00	7,870.00	5,450.00	5,450.00	157.91	94.16	18.89	-4,237.02	4,334.34	3,824.24	3,651.04	173.19	22.081		
18,700.00	7,870.00	5,450.00	5,450.00	159.35	94.16	18.89	-4,237.02	4,334.34	3,899.97	3,725.35	174.63	22.333		
18,800.00	7,870.00	5,450.00	5,450.00	160.79	94.16	18.89	-4,237.02	4,334.34	3,976.78	3,800.80	175.98	22.598		
18,900.00	7,870.00	5,450.00	5,450.00	162.25	94.16	18.89	-4,237.02	4,334.34	4,054.60	3,877.34	177.26	22.874		
19,000.00	7,870.00	5,450.00	5,450.00	163.71	94.16	18.89	-4,237.02	4,334.34	4,133.37	3,954.91	178.46	23.161		
19,100.00	7,870.00	5,450.00	5,450.00	165.18	94.16	18.89	-4,237.02	4,334.34	4,213.05	4,033.44	179.60	23.458		
19,200.00	7,870.00	5,450.00	5,450.00	166.66	94.16	18.89	-4,237.02	4,334.34	4,293.57	4,112.89	180.68	23.763		
19,300.00	7,870.00	5,450.00	5,450.00	168.15	94.16	18.89	-4,237.02	4,334.34	4,374.90	4,193.20	181.70	24.078		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,400.00	7,870.00	5,450.00	5,450.00	169.65	94.16	18.89	-4,237.02	4,334.34	4,456.99	4,274.32	182.66	24.400	
19,500.00	7,870.00	5,450.00	5,450.00	171.15	94.16	18.89	-4,237.02	4,334.34	4,539.79	4,356.22	183.57	24.730	
19,600.00	7,870.00	5,450.00	5,450.00	172.66	94.16	18.89	-4,237.02	4,334.34	4,623.28	4,438.84	184.44	25.067	
19,700.00	7,870.00	5,450.00	5,450.00	174.18	94.16	18.89	-4,237.02	4,334.34	4,707.41	4,522.15	185.25	25.410	
19,800.00	7,870.00	5,450.00	5,450.00	175.70	94.16	18.89	-4,237.02	4,334.34	4,792.15	4,606.12	186.03	25.760	
19,889.26	7,870.00	5,450.00	5,450.00	177.06	94.16	18.89	-4,237.02	4,334.34	4,868.27	4,681.59	186.69	26.077	

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 4 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	142.06	-5,559.39	4,334.57	7,049.57					
100.00	100.00	67.00	67.00	0.13	0.53	142.06	-5,559.39	4,334.57	7,049.49	7,048.83	0.66	N/A		
200.00	200.00	167.00	167.00	0.49	1.95	142.06	-5,559.39	4,334.57	7,049.49	7,047.04	2.45	2,880.084		
300.00	300.00	267.00	267.00	0.85	3.70	142.06	-5,559.39	4,334.57	7,049.49	7,044.94	4.55	1,548.839		
400.00	399.98	366.98	366.98	1.21	5.45	73.93	-5,559.39	4,334.57	7,049.01	7,042.36	6.65	1,059.925		
500.00	499.84	466.84	466.84	1.56	7.19	74.00	-5,559.39	4,334.57	7,047.56	7,038.81	8.75	805.507		
600.00	599.45	566.45	566.45	1.93	8.93	74.12	-5,559.39	4,334.57	7,045.16	7,034.30	10.85	649.058		
700.00	698.70	665.70	665.70	2.32	10.66	74.28	-5,559.39	4,334.57	7,041.82	7,028.85	12.97	542.981		
800.00	797.47	764.47	764.47	2.72	12.38	74.48	-5,559.39	4,334.57	7,037.55	7,022.46	15.10	466.190		
900.00	895.62	862.62	862.62	3.16	14.10	74.73	-5,559.39	4,334.57	7,032.40	7,015.16	17.24	407.926		
1,000.00	993.06	960.06	960.06	3.63	15.80	75.02	-5,559.39	4,334.57	7,026.38	7,006.98	19.40	362.128		
1,100.00	1,089.64	1,056.64	1,056.64	4.14	17.48	75.35	-5,559.39	4,334.57	7,019.55	6,997.96	21.59	325.125		
1,200.00	1,185.27	1,152.27	1,152.27	4.70	19.15	75.72	-5,559.39	4,334.57	7,011.93	6,988.12	23.80	294.565		
1,300.00	1,279.82	1,246.82	1,246.82	5.31	20.80	76.12	-5,559.39	4,334.57	7,003.58	6,977.53	26.05	268.872		
1,400.00	1,373.17	1,340.17	1,340.17	5.97	22.43	76.57	-5,559.39	4,334.57	6,994.56	6,966.23	28.32	246.951		
1,500.00	1,465.21	1,432.21	1,432.21	6.69	24.04	77.04	-5,559.39	4,334.57	6,984.91	6,954.28	30.63	228.015		
1,600.00	1,555.84	1,522.84	1,522.84	7.47	25.62	77.55	-5,559.39	4,334.57	6,974.71	6,941.73	32.98	211.487		
1,700.00	1,644.94	1,611.94	1,611.94	8.31	27.17	78.09	-5,559.39	4,334.57	6,964.02	6,928.66	35.36	196.932		
1,800.00	1,732.39	1,700.61	1,699.39	9.23	28.72	78.65	-5,559.39	4,334.57	6,952.92	6,915.11	37.81	183.914		
1,900.00	1,818.11	1,785.11	1,785.11	10.21	30.20	79.24	-5,559.39	4,334.57	6,941.47	6,901.23	40.24	172.482		
2,000.00	1,901.97	1,868.97	1,868.97	11.26	31.66	79.84	-5,559.39	4,334.57	6,929.76	6,887.02	42.74	162.120		
2,100.00	1,983.88	1,950.88	1,950.88	12.38	33.09	80.46	-5,559.39	4,334.57	6,917.87	6,872.59	45.28	152.766		
2,200.00	2,063.74	2,030.74	2,030.74	13.57	34.48	81.10	-5,559.39	4,334.57	6,905.89	6,858.03	47.86	144.286		
2,300.00	2,141.45	2,108.45	2,108.45	14.84	35.84	81.74	-5,559.39	4,334.57	6,893.90	6,843.42	50.48	136.569		
2,327.78	2,162.65	2,129.65	2,129.65	15.21	36.21	81.92	-5,559.39	4,334.57	6,890.58	6,839.37	51.21	134.550		
2,400.00	2,217.51	2,184.51	2,184.51	16.17	37.17	82.22	-5,559.39	4,334.57	6,882.11	6,828.98	53.13	129.541		
2,500.00	2,293.49	2,260.49	2,260.49	17.51	38.49	82.63	-5,559.39	4,334.57	6,870.90	6,815.10	55.79	123.146		
2,600.00	2,369.47	2,336.47	2,336.47	18.86	39.82	83.04	-5,559.39	4,334.57	6,860.28	6,801.81	58.48	117.317		
2,700.00	2,445.45	2,412.45	2,412.45	20.22	41.15	83.45	-5,559.39	4,334.57	6,850.27	6,789.10	61.17	111.987		
2,800.00	2,521.42	2,488.42	2,488.42	21.59	42.47	83.86	-5,559.39	4,334.57	6,840.86	6,776.98	63.87	107.101		
2,900.00	2,597.40	2,564.40	2,564.40	22.97	43.80	84.28	-5,559.39	4,334.57	6,832.05	6,765.47	66.58	102.608		
3,000.00	2,673.38	2,640.38	2,640.38	24.34	45.12	84.69	-5,559.39	4,334.57	6,823.86	6,754.55	69.30	98.466		
3,100.00	2,749.36	2,716.36	2,716.36	25.73	46.45	85.11	-5,559.39	4,334.57	6,816.27	6,744.24	72.03	94.637		
3,200.00	2,825.33	2,807.67	2,792.33	27.11	48.04	85.52	-5,559.39	4,334.57	6,809.30	6,734.27	75.02	90.766		
3,300.00	2,901.31	2,868.31	2,868.31	28.50	49.10	85.94	-5,559.39	4,334.57	6,802.94	6,725.45	77.48	87.798		
3,400.00	2,977.29	2,944.29	2,944.29	29.90	50.43	86.35	-5,559.39	4,334.57	6,797.19	6,716.97	80.22	84.733		
3,500.00	3,053.27	3,020.27	3,020.27	31.29	51.75	86.77	-5,559.39	4,334.57	6,792.07	6,709.11	82.96	81.876		
3,600.00	3,129.24	3,103.76	3,096.24	32.69	53.21	87.19	-5,559.39	4,334.57	6,787.56	6,701.73	85.82	79.086		
3,700.00	3,205.22	3,172.22	3,172.22	34.08	54.41	87.60	-5,559.39	4,334.57	6,783.67	6,695.24	88.43	76.710		
3,800.00	3,281.20	3,248.20	3,248.20	35.48	55.73	88.02	-5,559.39	4,334.57	6,780.40	6,689.23	91.17	74.369		
3,900.00	3,357.18	3,324.18	3,324.18	36.88	57.06	88.44	-5,559.39	4,334.57	6,777.76	6,683.85	93.91	72.172		
4,000.00	3,433.15	3,400.15	3,400.15	38.29	58.38	88.86	-5,559.39	4,334.57	6,775.74	6,679.09	96.65	70.106		
4,100.00	3,509.13	3,476.13	3,476.13	39.69	59.71	89.27	-5,559.39	4,334.57	6,774.34	6,674.96	99.39	68.161		
4,200.00	3,585.11	3,552.11	3,552.11	41.09	61.04	89.69	-5,559.39	4,334.57	6,773.57	6,671.45	102.12	66.327		
4,273.93	3,641.28	3,608.28	3,608.28	42.13	62.02	90.00	-5,559.39	4,334.57	6,773.40	6,669.25	104.15	65.038		
4,300.00	3,661.08	3,628.08	3,628.08	42.50	62.36	90.11	-5,559.39	4,334.57	6,773.42	6,668.56	104.86	64.596		
4,400.00	3,737.06	3,704.06	3,704.06	43.90	63.69	90.53	-5,559.39	4,334.57	6,773.90	6,666.31	107.59	62.960		
4,500.00	3,813.04	3,780.04	3,780.04	45.31	65.01	90.94	-5,559.39	4,334.57	6,774.99	6,664.68	110.32	61.413		
4,600.00	3,889.02	3,856.02	3,856.02	46.71	66.34	91.36	-5,559.39	4,334.57	6,776.72	6,663.67	113.04	59.947		
4,700.00	3,964.99	3,931.99	3,931.99	48.12	67.67	91.78	-5,559.39	4,334.57	6,779.06	6,663.30	115.77	58.558		
4,800.00	4,040.97	4,007.97	4,007.97	49.53	68.99	92.20	-5,559.39	4,334.57	6,782.03	6,663.55	118.48	57.240		
4,900.00	4,116.95	4,083.95	4,083.95	50.94	70.32	92.61	-5,559.39	4,334.57	6,785.62	6,664.42	121.20	55.988		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,192.93	4,159.93	4,159.93	52.35	71.64	93.03	-5,559.39	4,334.57	6,789.83	6,665.93	123.91	54.798		
5,100.00	4,268.90	4,235.90	4,235.90	53.76	72.97	93.45	-5,559.39	4,334.57	6,794.66	6,668.05	126.61	53.667		
5,200.00	4,344.88	4,311.88	4,311.88	55.16	74.30	93.86	-5,559.39	4,334.57	6,800.11	6,670.80	129.31	52.589		
5,300.00	4,420.86	4,387.86	4,387.86	56.57	75.62	94.28	-5,559.39	4,334.57	6,806.17	6,674.18	132.00	51.562		
5,400.00	4,496.84	4,463.84	4,463.84	57.98	76.95	94.69	-5,559.39	4,334.57	6,812.86	6,678.17	134.68	50.584		
5,500.00	4,572.81	4,539.81	4,539.81	59.39	78.27	95.11	-5,559.39	4,334.57	6,820.15	6,682.79	137.36	49.650		
5,600.00	4,648.79	4,615.79	4,615.79	60.81	79.60	95.52	-5,559.39	4,334.57	6,828.05	6,688.02	140.04	48.759		
5,700.00	4,724.77	4,708.23	4,691.77	62.22	81.21	95.94	-5,559.39	4,334.57	6,836.57	6,693.58	142.99	47.812		
5,800.00	4,800.74	4,767.74	4,767.74	63.63	82.25	96.35	-5,559.39	4,334.57	6,845.69	6,700.33	145.36	47.095		
5,900.00	4,876.72	4,843.72	4,843.72	65.04	83.58	96.76	-5,559.39	4,334.57	6,855.42	6,707.41	148.01	46.317		
6,000.00	4,952.70	4,919.70	4,919.70	66.45	84.91	97.17	-5,559.39	4,334.57	6,865.74	6,715.09	150.65	45.574		
6,100.00	5,028.68	5,004.32	4,995.68	67.86	86.38	97.59	-5,559.39	4,334.57	6,876.67	6,723.23	153.44	44.818		
6,200.00	5,104.65	5,071.65	5,071.65	69.27	87.56	98.00	-5,559.39	4,334.57	6,888.19	6,732.28	155.91	44.180		
6,300.00	5,180.63	5,147.63	5,147.63	70.69	88.88	98.41	-5,559.39	4,334.57	6,900.31	6,741.78	158.53	43.527		
6,400.00	5,256.61	5,223.61	5,223.61	72.10	90.21	98.81	-5,559.39	4,334.57	6,913.02	6,751.88	161.14	42.902		
6,500.00	5,332.59	5,300.41	5,299.59	73.51	91.55	99.22	-5,559.39	4,334.57	6,926.31	6,762.56	163.75	42.298		
6,600.00	5,408.56	5,375.56	5,375.56	74.92	92.86	99.63	-5,559.39	4,334.57	6,940.19	6,773.87	166.32	41.727		
6,700.00	5,484.54	5,451.54	5,451.54	76.34	94.19	100.03	-5,559.39	4,334.57	6,954.65	6,785.74	168.90	41.175		
6,800.00	5,560.52	5,450.00	5,450.00	77.75	94.16	100.03	-5,559.39	4,334.57	6,970.11	6,800.02	170.09	40.979		
6,900.00	5,636.50	5,450.00	5,450.00	79.16	94.16	100.03	-5,559.39	4,334.57	6,986.98	6,815.70	171.27	40.794		
7,000.00	5,712.47	5,450.00	5,450.00	80.57	94.16	100.03	-5,559.39	4,334.57	7,005.23	6,832.80	172.42	40.628		
7,100.00	5,788.45	5,450.00	5,450.00	81.99	94.16	100.03	-5,559.39	4,334.57	7,024.85	6,851.31	173.54	40.479		
7,200.00	5,864.43	5,450.00	5,450.00	83.40	94.16	100.03	-5,559.39	4,334.57	7,045.84	6,871.21	174.63	40.347		
7,300.00	5,940.40	5,450.00	5,450.00	84.81	94.16	100.03	-5,559.39	4,334.57	7,068.19	6,892.50	175.69	40.232		
7,400.00	6,016.38	5,450.00	5,450.00	86.23	94.16	100.03	-5,559.39	4,334.57	7,091.87	6,915.16	176.71	40.132		
7,500.00	6,092.36	5,450.00	5,450.00	87.64	94.16	100.03	-5,559.39	4,334.57	7,116.88	6,939.18	177.70	40.049		
7,600.00	6,168.34	5,450.00	5,450.00	89.05	94.16	100.03	-5,559.39	4,334.57	7,143.20	6,964.54	178.66	39.981		
7,700.00	6,244.31	5,450.00	5,450.00	90.47	94.16	100.03	-5,559.39	4,334.57	7,170.82	6,991.23	179.59	39.928		
7,800.00	6,320.29	5,450.00	5,450.00	91.88	94.16	100.03	-5,559.39	4,334.57	7,199.73	7,019.23	180.49	39.890		
7,900.00	6,396.27	5,450.00	5,450.00	93.30	94.16	100.03	-5,559.39	4,334.57	7,229.90	7,048.54	181.36	39.865		
8,000.00	6,472.25	5,450.00	5,450.00	94.71	94.16	100.03	-5,559.39	4,334.57	7,261.32	7,079.13	182.19	39.855		
8,100.00	6,548.22	5,450.00	5,450.00	96.12	94.16	100.03	-5,559.39	4,334.57	7,293.98	7,110.98	183.00	39.858		
8,200.00	6,624.20	5,450.00	5,450.00	97.54	94.16	100.03	-5,559.39	4,334.57	7,327.86	7,144.08	183.77	39.874		
8,300.00	6,700.18	5,450.00	5,450.00	98.95	94.16	100.03	-5,559.39	4,334.57	7,362.94	7,178.42	184.52	39.903		
8,400.00	6,776.16	5,450.00	5,450.00	100.37	94.16	100.03	-5,559.39	4,334.57	7,399.20	7,213.97	185.24	39.945		
8,500.00	6,852.13	5,450.00	5,450.00	101.78	94.16	100.03	-5,559.39	4,334.57	7,436.64	7,250.71	185.92	39.998		
8,600.00	6,928.11	5,450.00	5,450.00	103.20	94.16	100.03	-5,559.39	4,334.57	7,475.22	7,288.64	186.58	40.064		
8,700.00	7,004.09	5,450.00	5,450.00	104.61	94.16	100.03	-5,559.39	4,334.57	7,514.94	7,327.72	187.21	40.141		
8,800.00	7,080.06	5,450.00	5,450.00	106.02	94.16	100.03	-5,559.39	4,334.57	7,555.77	7,367.95	187.82	40.229		
8,900.00	7,156.04	5,450.00	5,450.00	107.44	94.16	100.03	-5,559.39	4,334.57	7,597.69	7,409.30	188.40	40.328		
9,000.00	7,232.02	5,450.00	5,450.00	108.85	94.16	100.03	-5,559.39	4,334.57	7,640.70	7,451.75	188.95	40.438		
9,104.68	7,311.55	5,450.00	5,450.00	110.33	94.16	100.03	-5,559.39	4,334.57	7,686.86	7,497.36	189.50	40.564		
9,150.00	7,346.29	5,450.00	5,450.00	110.97	94.16	95.04	-5,559.39	4,334.57	7,705.59	7,515.86	189.73	40.613		
9,200.00	7,385.15	5,450.00	5,450.00	111.65	94.16	89.15	-5,559.39	4,334.57	7,722.69	7,532.71	189.98	40.649		
9,250.00	7,424.29	5,450.00	5,450.00	112.31	94.16	83.03	-5,559.39	4,334.57	7,735.97	7,545.74	190.23	40.666		
9,300.00	7,463.40	5,450.00	5,450.00	112.93	94.16	76.88	-5,559.39	4,334.57	7,745.33	7,554.86	190.47	40.665		
9,350.00	7,502.19	5,450.00	5,450.00	113.51	94.16	70.88	-5,559.39	4,334.57	7,750.71	7,560.03	190.68	40.647		
9,400.00	7,540.36	5,450.00	5,450.00	114.04	94.16	65.21	-5,559.39	4,334.57	7,752.10	7,561.22	190.88	40.613		
9,450.00	7,577.62	5,450.00	5,450.00	114.53	94.16	59.27	-5,559.39	4,334.57	7,749.47	7,558.42	191.05	40.563		
9,500.00	7,613.70	5,450.00	5,450.00	114.95	94.16	55.21	-5,559.39	4,334.57	7,742.85	7,551.66	191.19	40.499		
9,550.00	7,648.30	5,450.00	5,450.00	115.32	94.16	50.96	-5,559.39	4,334.57	7,732.26	7,540.97	191.30	40.420		
9,600.00	7,681.18	5,450.00	5,450.00	115.63	94.16	47.18	-5,559.39	4,334.57	7,717.79	7,526.42	191.37	40.329		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,650.00	7,712.08	5,450.00	5,450.00	115.88	94.16	43.84	-5,559.39	4,334.57	7,699.52	7,508.10	191.42	40.224		
9,700.00	7,740.76	5,450.00	5,450.00	116.08	94.16	40.88	-5,559.39	4,334.57	7,677.55	7,486.12	191.43	40.106		
9,750.00	7,767.01	5,450.00	5,450.00	116.23	94.16	38.24	-5,559.39	4,334.57	7,652.03	7,460.61	191.42	39.976		
9,800.00	7,790.63	5,450.00	5,450.00	116.33	94.16	35.86	-5,559.39	4,334.57	7,623.11	7,431.74	191.37	39.834		
9,850.00	7,811.44	5,450.00	5,450.00	116.38	94.16	33.69	-5,559.39	4,334.57	7,590.98	7,399.68	191.31	39.680		
9,900.00	7,829.28	5,450.00	5,450.00	116.38	94.16	31.63	-5,559.39	4,334.57	7,555.85	7,364.63	191.22	39.514		
9,950.00	7,844.01	5,450.00	5,450.00	116.35	94.16	29.62	-5,559.39	4,334.57	7,517.93	7,326.82	191.11	39.338		
10,000.00	7,855.52	5,450.00	5,450.00	116.28	94.16	27.54	-5,559.39	4,334.57	7,477.49	7,286.49	191.00	39.150		
10,050.00	7,863.72	5,450.00	5,450.00	116.18	94.16	25.20	-5,559.39	4,334.57	7,434.78	7,243.91	190.87	38.952		
10,100.00	7,868.56	5,450.00	5,450.00	116.06	94.16	22.34	-5,559.39	4,334.57	7,390.10	7,199.35	190.74	38.743		
10,145.94	7,870.00	5,450.00	5,450.00	115.92	94.16	18.78	-5,559.39	4,334.57	7,347.57	7,156.94	190.63	38.543		
10,200.00	7,870.00	5,450.00	5,450.00	115.76	94.16	18.78	-5,559.39	4,334.57	7,296.81	7,106.32	190.50	38.304		
10,300.00	7,870.00	5,450.00	5,450.00	115.46	94.16	18.78	-5,559.39	4,334.57	7,203.06	7,012.81	190.24	37.862		
10,400.00	7,870.00	5,450.00	5,450.00	115.18	94.16	18.78	-5,559.39	4,334.57	7,109.47	6,919.49	189.98	37.422		
10,500.00	7,870.00	5,450.00	5,450.00	114.91	94.16	18.78	-5,559.39	4,334.57	7,016.06	6,826.35	189.71	36.983		
10,600.00	7,870.00	5,450.00	5,450.00	114.65	94.16	18.78	-5,559.39	4,334.57	6,922.83	6,733.40	189.43	36.546		
10,700.00	7,870.00	5,450.00	5,450.00	114.41	94.16	18.78	-5,559.39	4,334.57	6,829.79	6,640.66	189.13	36.111		
10,800.00	7,870.00	5,450.00	5,450.00	114.17	94.16	18.78	-5,559.39	4,334.57	6,736.96	6,548.13	188.83	35.677		
10,900.00	7,870.00	5,450.00	5,450.00	113.95	94.16	18.78	-5,559.39	4,334.57	6,644.33	6,455.81	188.52	35.245		
11,000.00	7,870.00	5,450.00	5,450.00	113.75	94.16	18.78	-5,559.39	4,334.57	6,551.92	6,363.73	188.19	34.815		
11,100.00	7,870.00	5,450.00	5,450.00	113.55	94.16	18.78	-5,559.39	4,334.57	6,459.73	6,271.88	187.85	34.388		
11,200.00	7,870.00	5,450.00	5,450.00	113.37	94.16	18.78	-5,559.39	4,334.57	6,367.79	6,180.29	187.50	33.962		
11,300.00	7,870.00	5,450.00	5,450.00	113.20	94.16	18.78	-5,559.39	4,334.57	6,276.08	6,088.95	187.13	33.538		
11,400.00	7,870.00	5,450.00	5,450.00	113.04	94.16	18.78	-5,559.39	4,334.57	6,184.64	5,997.89	186.75	33.117		
11,500.00	7,870.00	5,450.00	5,450.00	112.89	94.16	18.78	-5,559.39	4,334.57	6,093.46	5,907.10	186.35	32.698		
11,600.00	7,870.00	5,450.00	5,450.00	112.76	94.16	18.78	-5,559.39	4,334.57	6,002.56	5,816.62	185.94	32.282		
11,700.00	7,870.00	5,450.00	5,450.00	112.64	94.16	18.78	-5,559.39	4,334.57	5,911.96	5,726.45	185.51	31.868		
11,800.00	7,870.00	5,450.00	5,450.00	112.53	94.16	18.78	-5,559.39	4,334.57	5,821.67	5,636.60	185.06	31.458		
11,900.00	7,870.00	5,450.00	5,450.00	112.44	94.16	18.78	-5,559.39	4,334.57	5,731.69	5,547.10	184.60	31.050		
12,000.00	7,870.00	5,450.00	5,450.00	112.36	94.16	18.78	-5,559.39	4,334.57	5,642.06	5,457.95	184.11	30.645		
12,100.00	7,870.00	5,450.00	5,450.00	112.29	94.16	18.78	-5,559.39	4,334.57	5,552.78	5,369.18	183.60	30.244		
12,200.00	7,870.00	5,450.00	5,450.00	112.24	94.16	18.78	-5,559.39	4,334.57	5,463.87	5,280.80	183.07	29.846		
12,300.00	7,870.00	5,450.00	5,450.00	112.20	94.16	18.78	-5,559.39	4,334.57	5,375.35	5,192.84	182.51	29.452		
12,400.00	7,870.00	5,450.00	5,450.00	112.17	94.16	18.78	-5,559.39	4,334.57	5,287.24	5,105.31	181.93	29.061		
12,500.00	7,870.00	5,450.00	5,450.00	112.16	94.16	18.78	-5,559.39	4,334.57	5,199.56	5,018.24	181.33	28.675		
12,600.00	7,870.00	5,450.00	5,450.00	112.17	94.16	18.78	-5,559.39	4,334.57	5,112.33	4,931.64	180.69	28.293		
12,700.00	7,870.00	5,450.00	5,450.00	112.19	94.16	18.78	-5,559.39	4,334.57	5,025.58	4,845.56	180.03	27.916		
12,800.00	7,870.00	5,450.00	5,450.00	112.23	94.16	18.78	-5,559.39	4,334.57	4,939.33	4,760.00	179.33	27.543		
12,900.00	7,870.00	5,450.00	5,450.00	112.28	94.16	18.78	-5,559.39	4,334.57	4,853.61	4,675.01	178.60	27.176		
13,000.00	7,870.00	5,450.00	5,450.00	112.36	94.16	18.78	-5,559.39	4,334.57	4,768.44	4,590.61	177.84	26.814		
13,100.00	7,870.00	5,450.00	5,450.00	112.45	94.16	18.78	-5,559.39	4,334.57	4,683.86	4,506.83	177.03	26.457		
13,200.00	7,870.00	5,450.00	5,450.00	112.56	94.16	18.78	-5,559.39	4,334.57	4,599.90	4,423.71	176.19	26.107		
13,300.00	7,870.00	5,450.00	5,450.00	112.68	94.16	18.78	-5,559.39	4,334.57	4,516.59	4,341.28	175.31	25.764		
13,400.00	7,870.00	5,450.00	5,450.00	112.83	94.16	18.78	-5,559.39	4,334.57	4,433.97	4,259.59	174.38	25.427		
13,500.00	7,870.00	5,450.00	5,450.00	113.00	94.16	18.78	-5,559.39	4,334.57	4,352.09	4,178.68	173.41	25.097		
13,600.00	7,870.00	5,450.00	5,450.00	113.19	94.16	18.78	-5,559.39	4,334.57	4,270.97	4,098.58	172.39	24.775		
13,700.00	7,870.00	5,450.00	5,450.00	113.40	94.16	18.78	-5,559.39	4,334.57	4,190.67	4,019.35	171.31	24.462		
13,800.00	7,870.00	5,450.00	5,450.00	113.63	94.16	18.78	-5,559.39	4,334.57	4,111.23	3,941.04	170.19	24.157		
13,900.00	7,870.00	5,450.00	5,450.00	113.89	94.16	18.78	-5,559.39	4,334.57	4,032.71	3,863.71	169.00	23.862		
14,000.00	7,870.00	5,450.00	5,450.00	114.18	94.16	18.78	-5,559.39	4,334.57	3,955.15	3,787.40	167.75	23.577		
14,100.00	7,870.00	5,450.00	5,450.00	114.48	94.16	18.78	-5,559.39	4,334.57	3,878.63	3,712.18	166.45	23.302		
14,200.00	7,870.00	5,450.00	5,450.00	114.82	94.16	18.78	-5,559.39	4,334.57	3,803.19	3,638.12	165.07	23.039		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,300.00	7,870.00	5,450.00	5,450.00	115.18	94.16	18.78	-5,559.39	4,334.57	3,728.91	3,565.28	163.63	22.789		
14,400.00	7,870.00	5,450.00	5,450.00	115.57	94.16	18.78	-5,559.39	4,334.57	3,655.86	3,493.74	162.12	22.551		
14,500.00	7,870.00	5,450.00	5,450.00	115.99	94.16	18.78	-5,559.39	4,334.57	3,584.11	3,423.58	160.53	22.327		
14,600.00	7,870.00	5,450.00	5,450.00	116.44	94.16	18.78	-5,559.39	4,334.57	3,513.74	3,354.87	158.87	22.117		
14,700.00	7,870.00	5,450.00	5,450.00	116.92	94.16	18.78	-5,559.39	4,334.57	3,444.83	3,287.71	157.13	21.924		
14,800.00	7,870.00	5,450.00	5,450.00	117.44	94.16	18.78	-5,559.39	4,334.57	3,377.48	3,222.18	155.31	21.747		
14,900.00	7,870.00	5,450.00	5,450.00	117.98	94.16	18.78	-5,559.39	4,334.57	3,311.79	3,158.38	153.41	21.588		
15,000.00	7,870.00	5,450.00	5,450.00	118.56	94.16	18.78	-5,559.39	4,334.57	3,247.84	3,096.41	151.43	21.448		
15,100.00	7,870.00	5,450.00	5,450.00	119.17	94.16	18.78	-5,559.39	4,334.57	3,185.74	3,036.37	149.37	21.328		
15,200.00	7,870.00	5,450.00	5,450.00	119.81	94.16	18.78	-5,559.39	4,334.57	3,125.62	2,978.38	147.23	21.229		
15,300.00	7,870.00	5,450.00	5,450.00	120.48	94.16	18.78	-5,559.39	4,334.57	3,067.57	2,922.55	145.03	21.152		
15,400.00	7,870.00	5,450.00	5,450.00	121.19	94.16	18.78	-5,559.39	4,334.57	3,011.73	2,868.98	142.75	21.098		
15,500.00	7,870.00	5,450.00	5,450.00	121.93	94.16	18.78	-5,559.39	4,334.57	2,958.22	2,817.80	140.42	21.067		
15,600.00	7,870.00	5,450.00	5,450.00	122.71	94.16	18.78	-5,559.39	4,334.57	2,907.16	2,769.12	138.04	21.060		
15,700.00	7,870.00	5,450.00	5,450.00	123.52	94.16	18.78	-5,559.39	4,334.57	2,858.69	2,723.06	135.62	21.078		
15,800.00	7,870.00	5,450.00	5,450.00	124.36	94.16	18.78	-5,559.39	4,334.57	2,812.93	2,679.75	133.19	21.120		
15,900.00	7,870.00	5,450.00	5,450.00	125.23	94.16	18.78	-5,559.39	4,334.57	2,770.04	2,639.28	130.76	21.185		
16,000.00	7,870.00	5,450.00	5,450.00	126.14	94.16	18.78	-5,559.39	4,334.57	2,730.14	2,601.78	128.35	21.271		
16,100.00	7,870.00	5,450.00	5,450.00	127.07	94.16	18.78	-5,559.39	4,334.57	2,693.35	2,567.35	126.00	21.375		
16,200.00	7,870.00	5,450.00	5,450.00	128.04	94.16	18.78	-5,559.39	4,334.57	2,659.83	2,536.08	123.74	21.495		
16,300.00	7,870.00	5,450.00	5,450.00	129.04	94.16	18.78	-5,559.39	4,334.57	2,629.68	2,508.07	121.61	21.624		
16,400.00	7,870.00	5,450.00	5,450.00	130.06	94.16	18.78	-5,559.39	4,334.57	2,603.02	2,483.37	119.65	21.755		
16,500.00	7,870.00	5,450.00	5,450.00	131.11	94.16	18.78	-5,559.39	4,334.57	2,579.97	2,462.06	117.91	21.880		
16,600.00	7,870.00	5,450.00	5,450.00	132.19	94.16	18.78	-5,559.39	4,334.57	2,560.62	2,444.17	116.44	21.990		
16,700.00	7,870.00	5,450.00	5,450.00	133.29	94.16	18.78	-5,559.39	4,334.57	2,545.05	2,429.75	115.30	22.074		
16,800.00	7,870.00	5,450.00	5,450.00	134.42	94.16	18.78	-5,559.39	4,334.57	2,533.34	2,418.82	114.52	22.121		
16,900.00	7,870.00	5,450.00	5,450.00	135.57	94.16	18.78	-5,559.39	4,334.57	2,525.53	2,411.38	114.15	22.124		
17,000.00	7,870.00	5,450.00	5,450.00	136.75	94.16	18.78	-5,559.39	4,334.57	2,521.67	2,407.45	114.22	22.077		
17,047.40	7,870.00	5,450.00	5,450.00	137.31	94.16	18.78	-5,559.39	4,334.57	2,521.23	2,406.81	114.41	22.036 CC, ES		
17,100.00	7,870.00	5,450.00	5,450.00	137.94	94.16	18.78	-5,559.39	4,334.57	2,521.78	2,407.03	114.74	21.977		
17,200.00	7,870.00	5,450.00	5,450.00	139.16	94.16	18.78	-5,559.39	4,334.57	2,525.84	2,410.13	115.71	21.829		
17,300.00	7,870.00	5,450.00	5,450.00	140.39	94.16	18.78	-5,559.39	4,334.57	2,533.85	2,416.76	117.09	21.640		
17,400.00	7,870.00	5,450.00	5,450.00	141.65	94.16	18.78	-5,559.39	4,334.57	2,545.76	2,426.91	118.85	21.419		
17,500.00	7,870.00	5,450.00	5,450.00	142.92	94.16	18.78	-5,559.39	4,334.57	2,561.53	2,440.59	120.94	21.181		
17,600.00	7,870.00	5,450.00	5,450.00	144.21	94.16	18.78	-5,559.39	4,334.57	2,581.08	2,457.79	123.29	20.935		
17,700.00	7,870.00	5,450.00	5,450.00	145.52	94.16	18.78	-5,559.39	4,334.57	2,604.32	2,478.46	125.85	20.693		
17,800.00	7,870.00	5,450.00	5,450.00	146.84	94.16	18.78	-5,559.39	4,334.57	2,631.16	2,502.59	128.57	20.464		
17,900.00	7,870.00	5,450.00	5,450.00	148.18	94.16	18.78	-5,559.39	4,334.57	2,661.49	2,530.09	131.40	20.256		
18,000.00	7,870.00	5,450.00	5,450.00	149.54	94.16	18.78	-5,559.39	4,334.57	2,695.19	2,560.91	134.28	20.072		
18,100.00	7,870.00	5,450.00	5,450.00	150.90	94.16	18.78	-5,559.39	4,334.57	2,732.13	2,594.95	137.18	19.916		
18,200.00	7,870.00	5,450.00	5,450.00	152.28	94.16	18.78	-5,559.39	4,334.57	2,772.20	2,632.12	140.07	19.791		
18,300.00	7,870.00	5,450.00	5,450.00	153.67	94.16	18.78	-5,559.39	4,334.57	2,815.24	2,672.31	142.93	19.697		
18,400.00	7,870.00	5,450.00	5,450.00	155.07	94.16	18.78	-5,559.39	4,334.57	2,861.14	2,715.41	145.73	19.634		
18,500.00	7,870.00	5,450.00	5,450.00	156.49	94.16	18.78	-5,559.39	4,334.57	2,909.75	2,761.30	148.45	19.601		
18,600.00	7,870.00	5,450.00	5,450.00	157.91	94.16	18.78	-5,559.39	4,334.57	2,960.94	2,809.85	151.09	19.598 SF		
18,700.00	7,870.00	5,450.00	5,450.00	159.35	94.16	18.78	-5,559.39	4,334.57	3,014.58	2,860.95	153.63	19.622		
18,800.00	7,870.00	5,450.00	5,450.00	160.79	94.16	18.78	-5,559.39	4,334.57	3,070.54	2,914.47	156.07	19.674		
18,900.00	7,870.00	5,450.00	5,450.00	162.25	94.16	18.78	-5,559.39	4,334.57	3,128.69	2,970.29	158.41	19.751		
19,000.00	7,870.00	5,450.00	5,450.00	163.71	94.16	18.78	-5,559.39	4,334.57	3,188.92	3,028.29	160.64	19.852		
19,100.00	7,870.00	5,450.00	5,450.00	165.18	94.16	18.78	-5,559.39	4,334.57	3,251.12	3,088.36	162.76	19.975		
19,200.00	7,870.00	5,450.00	5,450.00	166.66	94.16	18.78	-5,559.39	4,334.57	3,315.16	3,150.38	164.78	20.119		
19,300.00	7,870.00	5,450.00	5,450.00	168.15	94.16	18.78	-5,559.39	4,334.57	3,380.95	3,214.25	166.70	20.282		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,400.00	7,870.00	5,450.00	5,450.00	169.65	94.16	18.78	-5,559.39	4,334.57	3,448.38	3,279.87	168.51	20.464	
19,500.00	7,870.00	5,450.00	5,450.00	171.15	94.16	18.78	-5,559.39	4,334.57	3,517.36	3,347.13	170.23	20.662	
19,600.00	7,870.00	5,450.00	5,450.00	172.66	94.16	18.78	-5,559.39	4,334.57	3,587.81	3,415.95	171.86	20.876	
19,700.00	7,870.00	5,450.00	5,450.00	174.18	94.16	18.78	-5,559.39	4,334.57	3,659.63	3,486.23	173.40	21.105	
19,800.00	7,870.00	5,450.00	5,450.00	175.70	94.16	18.78	-5,559.39	4,334.57	3,732.75	3,557.89	174.86	21.348	
19,889.26	7,870.00	5,450.00	5,450.00	177.06	94.16	18.78	-5,559.39	4,334.57	3,799.04	3,622.96	176.09	21.575	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	126.85	-4,236.76	5,653.38	7,065.02					
100.00	100.00	39.00	39.00	0.13	0.31	126.85	-4,236.76	5,653.38	7,064.76	7,064.31	0.45	N/A		
200.00	200.00	139.00	139.00	0.49	1.48	126.85	-4,236.76	5,653.38	7,064.76	7,062.78	1.98	3,574.506		
300.00	300.00	239.00	239.00	0.85	3.23	126.85	-4,236.76	5,653.38	7,064.76	7,060.68	4.08	1,731.461		
400.00	399.98	338.98	338.98	1.21	4.97	58.73	-4,236.76	5,653.38	7,063.85	7,057.67	6.18	1,143.159		
500.00	499.84	438.84	438.84	1.56	6.72	58.81	-4,236.76	5,653.38	7,061.14	7,052.86	8.28	853.007		
600.00	599.45	538.45	538.45	1.93	8.46	58.95	-4,236.76	5,653.38	7,056.62	7,046.24	10.38	679.737		
700.00	698.70	637.70	637.70	2.32	10.19	59.14	-4,236.76	5,653.38	7,050.32	7,037.82	12.49	564.424		
800.00	797.47	736.47	736.47	2.72	11.91	59.39	-4,236.76	5,653.38	7,042.25	7,027.64	14.61	482.027		
900.00	895.62	834.62	834.62	3.16	13.62	59.69	-4,236.76	5,653.38	7,032.44	7,015.70	16.74	420.108		
1,000.00	993.06	932.06	932.06	3.63	15.32	60.05	-4,236.76	5,653.38	7,020.93	7,002.05	18.88	371.794		
1,100.00	1,089.64	1,028.64	1,028.64	4.14	17.01	60.46	-4,236.76	5,653.38	7,007.75	6,986.70	21.05	332.981		
1,200.00	1,185.27	1,124.27	1,124.27	4.70	18.68	60.92	-4,236.76	5,653.38	6,992.95	6,969.72	23.23	301.071		
1,300.00	1,279.82	1,218.82	1,218.82	5.31	20.33	61.44	-4,236.76	5,653.38	6,976.57	6,951.14	25.43	274.335		
1,400.00	1,373.17	1,312.17	1,312.17	5.97	21.96	62.00	-4,236.76	5,653.38	6,958.68	6,931.02	27.66	251.581		
1,500.00	1,465.21	1,404.21	1,404.21	6.69	23.57	62.62	-4,236.76	5,653.38	6,939.33	6,909.41	29.92	231.963		
1,600.00	1,555.84	1,505.16	1,494.84	7.47	25.33	63.29	-4,236.76	5,653.38	6,918.58	6,886.20	32.38	213.663		
1,700.00	1,644.94	1,583.94	1,583.94	8.31	26.70	64.00	-4,236.76	5,653.38	6,896.52	6,862.00	34.52	199.804		
1,800.00	1,732.39	1,671.39	1,671.39	9.23	28.23	64.76	-4,236.76	5,653.38	6,873.21	6,836.34	36.86	186.444		
1,900.00	1,818.11	1,757.11	1,757.11	10.21	29.72	65.56	-4,236.76	5,653.38	6,848.74	6,809.49	39.25	174.506		
2,000.00	1,901.97	1,840.97	1,840.97	11.26	31.19	66.41	-4,236.76	5,653.38	6,823.18	6,781.52	41.66	163.771		
2,100.00	1,983.88	1,922.88	1,922.88	12.38	32.62	67.29	-4,236.76	5,653.38	6,796.64	6,752.52	44.12	154.066		
2,200.00	2,063.74	2,002.74	2,002.74	13.57	34.01	68.21	-4,236.76	5,653.38	6,769.20	6,722.60	46.60	145.251		
2,300.00	2,141.45	2,080.45	2,080.45	14.84	35.37	69.16	-4,236.76	5,653.38	6,740.96	6,691.84	49.13	137.212		
2,327.78	2,162.65	2,101.65	2,101.65	15.21	35.74	69.43	-4,236.76	5,653.38	6,732.99	6,683.15	49.84	135.104		
2,400.00	2,217.51	2,156.51	2,156.51	16.17	36.70	69.73	-4,236.76	5,653.38	6,712.33	6,660.64	51.68	129.871		
2,500.00	2,293.49	2,232.49	2,232.49	17.51	38.02	70.14	-4,236.76	5,653.38	6,684.16	6,629.89	54.27	123.175		
2,600.00	2,369.47	2,308.47	2,308.47	18.86	39.35	70.56	-4,236.76	5,653.38	6,656.50	6,599.63	56.87	117.053		
2,700.00	2,445.45	2,384.45	2,384.45	20.22	40.67	70.97	-4,236.76	5,653.38	6,629.37	6,569.88	59.49	111.442		
2,800.00	2,521.42	2,460.42	2,460.42	21.59	42.00	71.40	-4,236.76	5,653.38	6,602.76	6,540.64	62.12	106.284		
2,900.00	2,597.40	2,536.40	2,536.40	22.97	43.33	71.82	-4,236.76	5,653.38	6,576.69	6,511.92	64.77	101.532		
3,000.00	2,673.38	2,612.38	2,612.38	24.34	44.65	72.24	-4,236.76	5,653.38	6,551.16	6,483.72	67.44	97.141		
3,100.00	2,749.36	2,688.36	2,688.36	25.73	45.98	72.67	-4,236.76	5,653.38	6,526.18	6,456.07	70.12	93.076		
3,200.00	2,825.33	2,764.33	2,764.33	27.11	47.30	73.10	-4,236.76	5,653.38	6,501.76	6,428.95	72.81	89.303		
3,300.00	2,901.31	2,840.31	2,840.31	28.50	48.63	73.53	-4,236.76	5,653.38	6,477.89	6,402.39	75.51	85.793		
3,400.00	2,977.29	2,916.29	2,916.29	29.90	49.96	73.96	-4,236.76	5,653.38	6,454.59	6,376.38	78.22	82.523		
3,500.00	3,053.27	3,007.73	2,992.27	31.29	51.55	74.39	-4,236.76	5,653.38	6,431.87	6,350.66	81.21	79.205		
3,600.00	3,129.24	3,068.24	3,068.24	32.69	52.61	74.83	-4,236.76	5,653.38	6,409.72	6,326.06	83.66	76.612		
3,700.00	3,205.22	3,144.22	3,144.22	34.08	53.93	75.27	-4,236.76	5,653.38	6,388.16	6,301.76	86.40	73.936		
3,800.00	3,281.20	3,220.20	3,220.20	35.48	55.26	75.71	-4,236.76	5,653.38	6,367.19	6,278.04	89.15	71.424		
3,900.00	3,357.18	3,303.83	3,296.18	36.88	56.72	76.15	-4,236.76	5,653.38	6,346.81	6,254.78	92.03	68.963		
4,000.00	3,433.15	3,372.15	3,372.15	38.29	57.91	76.59	-4,236.76	5,653.38	6,327.04	6,232.38	94.66	66.841		
4,100.00	3,509.13	3,448.13	3,448.13	39.69	59.24	77.03	-4,236.76	5,653.38	6,307.88	6,210.45	97.42	64.746		
4,200.00	3,585.11	3,524.11	3,524.11	41.09	60.56	77.48	-4,236.76	5,653.38	6,289.33	6,189.13	100.20	62.770		
4,300.00	3,661.08	3,600.08	3,600.08	42.50	61.89	77.93	-4,236.76	5,653.38	6,271.40	6,168.42	102.97	60.903		
4,400.00	3,737.06	3,676.06	3,676.06	43.90	63.22	78.38	-4,236.76	5,653.38	6,254.09	6,148.34	105.76	59.137		
4,500.00	3,813.04	3,752.04	3,752.04	45.31	64.54	78.83	-4,236.76	5,653.38	6,237.42	6,128.87	108.54	57.465		
4,600.00	3,889.02	3,828.02	3,828.02	46.71	65.87	79.28	-4,236.76	5,653.38	6,221.38	6,110.04	111.33	55.880		
4,700.00	3,964.99	3,903.99	3,903.99	48.12	67.20	79.73	-4,236.76	5,653.38	6,205.97	6,091.85	114.13	54.377		
4,800.00	4,040.97	3,979.97	3,979.97	49.53	68.52	80.19	-4,236.76	5,653.38	6,191.22	6,074.29	116.93	52.950		
4,900.00	4,116.95	4,055.95	4,055.95	50.94	69.85	80.64	-4,236.76	5,653.38	6,177.11	6,057.38	119.73	51.593		
5,000.00	4,192.93	4,131.93	4,131.93	52.35	71.17	81.10	-4,236.76	5,653.38	6,163.66	6,041.13	122.53	50.304		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,268.90	4,207.90	4,207.90	53.76	72.50	81.56	-4,236.76	5,653.38	6,150.86	6,025.53	125.33	49.076		
5,200.00	4,344.88	4,283.88	4,283.88	55.16	73.83	82.02	-4,236.76	5,653.38	6,138.73	6,010.59	128.14	47.907		
5,300.00	4,420.86	4,359.86	4,359.86	56.57	75.15	82.48	-4,236.76	5,653.38	6,127.26	5,996.31	130.94	46.793		
5,400.00	4,496.84	4,435.84	4,435.84	57.98	76.48	82.94	-4,236.76	5,653.38	6,116.46	5,982.71	133.75	45.730		
5,500.00	4,572.81	4,511.81	4,511.81	59.39	77.80	83.40	-4,236.76	5,653.38	6,106.33	5,969.78	136.56	44.716		
5,600.00	4,648.79	4,587.79	4,587.79	60.81	79.13	83.86	-4,236.76	5,653.38	6,096.89	5,957.52	139.36	43.748		
5,700.00	4,724.77	4,663.77	4,663.77	62.22	80.46	84.33	-4,236.76	5,653.38	6,088.12	5,945.95	142.17	42.824		
5,800.00	4,800.74	4,739.74	4,739.74	63.63	81.78	84.79	-4,236.76	5,653.38	6,080.03	5,935.06	144.97	41.941		
5,900.00	4,876.72	4,815.72	4,815.72	65.04	83.11	85.26	-4,236.76	5,653.38	6,072.63	5,924.86	147.77	41.096		
6,000.00	4,952.70	4,908.30	4,891.70	66.45	84.72	85.72	-4,236.76	5,653.38	6,065.92	5,915.06	150.85	40.210		
6,100.00	5,028.68	4,967.68	4,967.68	67.86	85.76	86.19	-4,236.76	5,653.38	6,059.89	5,906.54	153.36	39.515		
6,200.00	5,104.65	5,043.65	5,043.65	69.27	87.09	86.66	-4,236.76	5,653.38	6,054.56	5,898.42	156.15	38.775		
6,300.00	5,180.63	5,119.63	5,119.63	70.69	88.41	87.12	-4,236.76	5,653.38	6,049.93	5,890.99	158.93	38.066		
6,400.00	5,256.61	5,204.39	5,195.61	72.10	89.89	87.59	-4,236.76	5,653.38	6,045.99	5,884.12	161.87	37.352		
6,500.00	5,332.59	5,271.59	5,271.59	73.51	91.06	88.06	-4,236.76	5,653.38	6,042.74	5,878.25	164.49	36.737		
6,600.00	5,408.56	5,347.56	5,347.56	74.92	92.39	88.53	-4,236.76	5,653.38	6,040.20	5,872.94	167.26	36.113		
6,700.00	5,484.54	5,400.00	5,400.00	76.34	93.31	88.85	-4,236.76	5,653.38	6,038.40	5,868.79	169.61	35.602		
6,772.48	5,539.61	5,400.00	5,400.00	77.36	93.31	88.85	-4,236.76	5,653.38	6,037.96	5,867.33	170.63	35.386		
6,800.00	5,560.52	5,400.00	5,400.00	77.75	93.31	88.85	-4,236.76	5,653.38	6,038.03	5,867.01	171.01	35.307		
6,900.00	5,636.50	5,400.00	5,400.00	79.16	93.31	88.85	-4,236.76	5,653.38	6,039.31	5,866.92	172.38	35.034		
7,000.00	5,712.47	5,400.00	5,400.00	80.57	93.31	88.85	-4,236.76	5,653.38	6,042.25	5,868.53	173.72	34.782		
7,100.00	5,788.45	5,400.00	5,400.00	81.99	93.31	88.85	-4,236.76	5,653.38	6,046.84	5,871.82	175.02	34.550		
7,200.00	5,864.43	5,400.00	5,400.00	83.40	93.31	88.85	-4,236.76	5,653.38	6,053.08	5,876.81	176.27	34.339		
7,300.00	5,940.40	5,400.00	5,400.00	84.81	93.31	88.85	-4,236.76	5,653.38	6,060.96	5,883.47	177.49	34.147		
7,400.00	6,016.38	5,400.00	5,400.00	86.23	93.31	88.85	-4,236.76	5,653.38	6,070.48	5,891.81	178.67	33.975		
7,500.00	6,092.36	5,400.00	5,400.00	87.64	93.31	88.85	-4,236.76	5,653.38	6,081.64	5,901.82	179.81	33.822		
7,600.00	6,168.34	5,400.00	5,400.00	89.05	93.31	88.85	-4,236.76	5,653.38	6,094.41	5,913.49	180.91	33.687		
7,700.00	6,244.31	5,400.00	5,400.00	90.47	93.31	88.85	-4,236.76	5,653.38	6,108.79	5,926.82	181.97	33.570		
7,800.00	6,320.29	5,400.00	5,400.00	91.88	93.31	88.85	-4,236.76	5,653.38	6,124.77	5,941.78	182.99	33.471		
7,900.00	6,396.27	5,400.00	5,400.00	93.30	93.31	88.85	-4,236.76	5,653.38	6,142.34	5,958.37	183.97	33.388		
8,000.00	6,472.25	5,400.00	5,400.00	94.71	93.31	88.85	-4,236.76	5,653.38	6,161.48	5,976.58	184.90	33.323		
8,100.00	6,548.22	5,400.00	5,400.00	96.12	93.31	88.85	-4,236.76	5,653.38	6,182.18	5,996.38	185.79	33.274		
8,200.00	6,624.20	5,400.00	5,400.00	97.54	93.31	88.85	-4,236.76	5,653.38	6,204.42	6,017.77	186.65	33.241		
8,300.00	6,700.18	5,400.00	5,400.00	98.95	93.31	88.85	-4,236.76	5,653.38	6,228.19	6,040.73	187.46	33.224		
8,400.00	6,776.16	5,400.00	5,400.00	100.37	93.31	88.85	-4,236.76	5,653.38	6,253.47	6,065.23	188.23	33.222		
8,500.00	6,852.13	5,400.00	5,400.00	101.78	93.31	88.85	-4,236.76	5,653.38	6,280.23	6,091.27	188.96	33.235		
8,600.00	6,928.11	5,400.00	5,400.00	103.20	93.31	88.85	-4,236.76	5,653.38	6,308.47	6,118.82	189.66	33.263		
8,700.00	7,004.09	5,400.00	5,400.00	104.61	93.31	88.85	-4,236.76	5,653.38	6,338.17	6,147.86	190.31	33.304		
8,800.00	7,080.06	5,400.00	5,400.00	106.02	93.31	88.85	-4,236.76	5,653.38	6,369.29	6,178.36	190.93	33.360		
8,900.00	7,156.04	5,400.00	5,400.00	107.44	93.31	88.85	-4,236.76	5,653.38	6,401.82	6,210.32	191.51	33.429		
9,000.00	7,232.02	5,400.00	5,400.00	108.85	93.31	88.85	-4,236.76	5,653.38	6,435.75	6,243.70	192.05	33.511		
9,104.68	7,311.55	5,400.00	5,400.00	110.33	93.31	88.85	-4,236.76	5,653.38	6,472.73	6,280.15	192.58	33.611		
9,150.00	7,346.29	5,400.00	5,400.00	110.97	93.31	84.10	-4,236.76	5,653.38	6,487.59	6,294.80	192.79	33.651		
9,200.00	7,385.15	5,400.00	5,400.00	111.65	93.31	78.41	-4,236.76	5,653.38	6,500.54	6,307.54	193.00	33.681		
9,250.00	7,424.29	5,400.00	5,400.00	112.31	93.31	72.41	-4,236.76	5,653.38	6,509.80	6,316.61	193.19	33.696		
9,300.00	7,463.40	5,400.00	5,400.00	112.93	93.31	66.31	-4,236.76	5,653.38	6,515.32	6,321.97	193.35	33.698		
9,350.00	7,502.19	5,400.00	5,400.00	113.51	93.31	60.31	-4,236.76	5,653.38	6,517.05	6,323.58	193.47	33.686		
9,400.00	7,540.36	5,400.00	5,400.00	114.04	93.31	54.56	-4,236.76	5,653.38	6,514.99	6,321.44	193.55	33.661		
9,450.00	7,577.62	5,400.00	5,400.00	114.53	93.31	49.17	-4,236.76	5,653.38	6,509.15	6,315.57	193.58	33.624		
9,500.00	7,613.70	5,400.00	5,400.00	114.95	93.31	44.20	-4,236.76	5,653.38	6,499.57	6,305.99	193.58	33.576		
9,550.00	7,648.30	5,400.00	5,400.00	115.32	93.31	39.65	-4,236.76	5,653.38	6,486.31	6,292.78	193.53	33.516		
9,600.00	7,681.18	5,400.00	5,400.00	115.63	93.31	35.49	-4,236.76	5,653.38	6,469.43	6,275.99	193.44	33.445		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,650.00	7,712.08	5,400.00	5,400.00	115.88	93.31	31.67	-4,236.76	5,653.38	6,449.05	6,255.74	193.30	33.362		
9,700.00	7,740.76	5,400.00	5,400.00	116.08	93.31	28.10	-4,236.76	5,653.38	6,425.28	6,232.15	193.13	33.269		
9,750.00	7,767.01	5,400.00	5,400.00	116.23	93.31	24.72	-4,236.76	5,653.38	6,398.27	6,205.34	192.93	33.164		
9,800.00	7,790.63	5,400.00	5,400.00	116.33	93.31	21.43	-4,236.76	5,653.38	6,368.18	6,175.49	192.69	33.049		
9,850.00	7,811.44	5,400.00	5,400.00	116.38	93.31	18.12	-4,236.76	5,653.38	6,335.21	6,142.78	192.43	32.923		
9,900.00	7,829.28	5,400.00	5,400.00	116.38	93.31	14.67	-4,236.76	5,653.38	6,299.55	6,107.41	192.14	32.786		
9,950.00	7,844.01	5,400.00	5,400.00	116.35	93.31	10.92	-4,236.76	5,653.38	6,261.45	6,069.60	191.85	32.638		
10,000.00	7,855.52	5,400.00	5,400.00	116.28	93.31	6.66	-4,236.76	5,653.38	6,221.13	6,029.59	191.54	32.479		
10,050.00	7,863.72	5,400.00	5,400.00	116.18	93.31	1.60	-4,236.76	5,653.38	6,178.88	5,987.64	191.24	32.310		
10,100.00	7,868.56	5,400.00	5,400.00	116.06	93.31	-4.62	-4,236.76	5,653.38	6,134.98	5,944.04	190.94	32.130		
10,145.94	7,870.00	5,400.00	5,400.00	115.92	93.31	-11.79	-4,236.76	5,653.38	6,093.44	5,902.77	190.68	31.957		
10,200.00	7,870.00	5,400.00	5,400.00	115.76	93.31	-11.79	-4,236.76	5,653.38	6,044.03	5,853.66	190.37	31.749		
10,300.00	7,870.00	5,400.00	5,400.00	115.46	93.31	-11.79	-4,236.76	5,653.38	5,952.83	5,763.05	189.78	31.367		
10,400.00	7,870.00	5,400.00	5,400.00	115.18	93.31	-11.79	-4,236.76	5,653.38	5,861.92	5,672.75	189.17	30.987		
10,500.00	7,870.00	5,400.00	5,400.00	114.91	93.31	-11.79	-4,236.76	5,653.38	5,771.31	5,582.77	188.54	30.610		
10,600.00	7,870.00	5,400.00	5,400.00	114.65	93.31	-11.79	-4,236.76	5,653.38	5,681.02	5,493.13	187.88	30.237		
10,700.00	7,870.00	5,400.00	5,400.00	114.41	93.31	-11.79	-4,236.76	5,653.38	5,591.05	5,403.86	187.20	29.867		
10,800.00	7,870.00	5,400.00	5,400.00	114.17	93.31	-11.79	-4,236.76	5,653.38	5,501.44	5,314.95	186.49	29.500		
10,900.00	7,870.00	5,400.00	5,400.00	113.95	93.31	-11.79	-4,236.76	5,653.38	5,412.19	5,226.44	185.75	29.138		
11,000.00	7,870.00	5,400.00	5,400.00	113.75	93.31	-11.79	-4,236.76	5,653.38	5,323.31	5,138.34	184.97	28.779		
11,100.00	7,870.00	5,400.00	5,400.00	113.55	93.31	-11.79	-4,236.76	5,653.38	5,234.85	5,050.68	184.17	28.424		
11,200.00	7,870.00	5,400.00	5,400.00	113.37	93.31	-11.79	-4,236.76	5,653.38	5,146.80	4,963.47	183.33	28.074		
11,300.00	7,870.00	5,400.00	5,400.00	113.20	93.31	-11.79	-4,236.76	5,653.38	5,059.20	4,876.74	182.45	27.729		
11,400.00	7,870.00	5,400.00	5,400.00	113.04	93.31	-11.79	-4,236.76	5,653.38	4,972.06	4,790.52	181.54	27.388		
11,500.00	7,870.00	5,400.00	5,400.00	112.89	93.31	-11.79	-4,236.76	5,653.38	4,885.42	4,704.84	180.58	27.053		
11,600.00	7,870.00	5,400.00	5,400.00	112.76	93.31	-11.79	-4,236.76	5,653.38	4,799.30	4,619.71	179.59	26.724		
11,700.00	7,870.00	5,400.00	5,400.00	112.64	93.31	-11.79	-4,236.76	5,653.38	4,713.72	4,535.18	178.55	26.401		
11,800.00	7,870.00	5,400.00	5,400.00	112.53	93.31	-11.79	-4,236.76	5,653.38	4,628.73	4,451.27	177.46	26.084		
11,900.00	7,870.00	5,400.00	5,400.00	112.44	93.31	-11.79	-4,236.76	5,653.38	4,544.34	4,368.02	176.32	25.773		
12,000.00	7,870.00	5,400.00	5,400.00	112.36	93.31	-11.79	-4,236.76	5,653.38	4,460.60	4,285.47	175.13	25.470		
12,100.00	7,870.00	5,400.00	5,400.00	112.29	93.31	-11.79	-4,236.76	5,653.38	4,377.55	4,203.66	173.89	25.175		
12,200.00	7,870.00	5,400.00	5,400.00	112.24	93.31	-11.79	-4,236.76	5,653.38	4,295.21	4,122.63	172.58	24.888		
12,300.00	7,870.00	5,400.00	5,400.00	112.20	93.31	-11.79	-4,236.76	5,653.38	4,213.64	4,042.42	171.22	24.609		
12,400.00	7,870.00	5,400.00	5,400.00	112.17	93.31	-11.79	-4,236.76	5,653.38	4,132.88	3,963.08	169.80	24.340		
12,500.00	7,870.00	5,400.00	5,400.00	112.16	93.31	-11.79	-4,236.76	5,653.38	4,052.98	3,884.67	168.31	24.081		
12,600.00	7,870.00	5,400.00	5,400.00	112.17	93.31	-11.79	-4,236.76	5,653.38	3,973.99	3,807.24	166.75	23.832		
12,700.00	7,870.00	5,400.00	5,400.00	112.19	93.31	-11.79	-4,236.76	5,653.38	3,895.96	3,730.84	165.12	23.595		
12,800.00	7,870.00	5,400.00	5,400.00	112.23	93.31	-11.79	-4,236.76	5,653.38	3,818.96	3,655.54	163.41	23.370		
12,900.00	7,870.00	5,400.00	5,400.00	112.28	93.31	-11.79	-4,236.76	5,653.38	3,743.04	3,581.41	161.63	23.158		
13,000.00	7,870.00	5,400.00	5,400.00	112.36	93.31	-11.79	-4,236.76	5,653.38	3,668.28	3,508.51	159.77	22.960		
13,100.00	7,870.00	5,400.00	5,400.00	112.45	93.31	-11.79	-4,236.76	5,653.38	3,594.75	3,436.92	157.82	22.777		
13,200.00	7,870.00	5,400.00	5,400.00	112.56	93.31	-11.79	-4,236.76	5,653.38	3,522.52	3,366.72	155.80	22.609		
13,300.00	7,870.00	5,400.00	5,400.00	112.68	93.31	-11.79	-4,236.76	5,653.38	3,451.68	3,297.98	153.69	22.458		
13,400.00	7,870.00	5,400.00	5,400.00	112.83	93.31	-11.79	-4,236.76	5,653.38	3,382.31	3,230.81	151.50	22.326		
13,500.00	7,870.00	5,400.00	5,400.00	113.00	93.31	-11.79	-4,236.76	5,653.38	3,314.50	3,165.28	149.22	22.211		
13,600.00	7,870.00	5,400.00	5,400.00	113.19	93.31	-11.79	-4,236.76	5,653.38	3,248.36	3,101.49	146.87	22.117		
13,700.00	7,870.00	5,400.00	5,400.00	113.40	93.31	-11.79	-4,236.76	5,653.38	3,183.99	3,039.55	144.44	22.044		
13,800.00	7,870.00	5,400.00	5,400.00	113.63	93.31	-11.79	-4,236.76	5,653.38	3,121.49	2,979.56	141.93	21.993		
13,900.00	7,870.00	5,400.00	5,400.00	113.89	93.31	-11.79	-4,236.76	5,653.38	3,060.99	2,921.63	139.36	21.965		
14,000.00	7,870.00	5,400.00	5,400.00	114.18	93.31	-11.79	-4,236.76	5,653.38	3,002.59	2,865.86	136.73	21.960		
14,100.00	7,870.00	5,400.00	5,400.00	114.48	93.31	-11.79	-4,236.76	5,653.38	2,946.44	2,812.38	134.06	21.979		
14,200.00	7,870.00	5,400.00	5,400.00	114.82	93.31	-11.79	-4,236.76	5,653.38	2,892.65	2,761.30	131.35	22.022		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,300.00	7,870.00	5,400.00	5,400.00	115.18	93.31	-11.79	-4,236.76	5,653.38	2,841.37	2,712.73	128.64	22.088		
14,400.00	7,870.00	5,400.00	5,400.00	115.57	93.31	-11.79	-4,236.76	5,653.38	2,792.72	2,666.79	125.93	22.177		
14,500.00	7,870.00	5,400.00	5,400.00	115.99	93.31	-11.79	-4,236.76	5,653.38	2,746.86	2,623.60	123.26	22.286		
14,600.00	7,870.00	5,400.00	5,400.00	116.44	93.31	-11.79	-4,236.76	5,653.38	2,703.91	2,583.27	120.64	22.412		
14,700.00	7,870.00	5,400.00	5,400.00	116.92	93.31	-11.79	-4,236.76	5,653.38	2,664.04	2,545.91	118.12	22.553		
14,800.00	7,870.00	5,400.00	5,400.00	117.44	93.31	-11.79	-4,236.76	5,653.38	2,627.36	2,511.63	115.73	22.702		
14,900.00	7,870.00	5,400.00	5,400.00	117.98	93.31	-11.79	-4,236.76	5,653.38	2,594.02	2,480.51	113.51	22.852		
15,000.00	7,870.00	5,400.00	5,400.00	118.56	93.31	-11.79	-4,236.76	5,653.38	2,564.15	2,452.64	111.51	22.995		
15,100.00	7,870.00	5,400.00	5,400.00	119.17	93.31	-11.79	-4,236.76	5,653.38	2,537.87	2,428.10	109.78	23.118		
15,200.00	7,870.00	5,400.00	5,400.00	119.81	93.31	-11.79	-4,236.76	5,653.38	2,515.30	2,406.93	108.37	23.210		
15,300.00	7,870.00	5,400.00	5,400.00	120.48	93.31	-11.79	-4,236.76	5,653.38	2,496.53	2,389.17	107.36	23.254		
15,400.00	7,870.00	5,400.00	5,400.00	121.19	93.31	-11.79	-4,236.76	5,653.38	2,481.65	2,374.84	106.81	23.234		
15,500.00	7,870.00	5,400.00	5,400.00	121.93	93.31	-11.79	-4,236.76	5,653.38	2,470.73	2,363.94	106.80	23.135		
15,600.00	7,870.00	5,400.00	5,400.00	122.71	93.31	-11.79	-4,236.76	5,653.38	2,463.83	2,356.45	107.38	22.945		
15,700.00	7,870.00	5,400.00	5,400.00	123.52	93.31	-11.79	-4,236.76	5,653.38	2,460.97	2,352.36	108.61	22.659		
15,720.35	7,870.00	5,400.00	5,400.00	123.69	93.31	-11.79	-4,236.76	5,653.38	2,460.89	2,351.95	108.94	22.589 CC		
15,800.00	7,870.00	5,400.00	5,400.00	124.36	93.31	-11.79	-4,236.76	5,653.38	2,462.18	2,351.69	110.49	22.285 ES		
15,900.00	7,870.00	5,400.00	5,400.00	125.23	93.31	-11.79	-4,236.76	5,653.38	2,467.44	2,354.46	112.97	21.841		
16,000.00	7,870.00	5,400.00	5,400.00	126.14	93.31	-11.79	-4,236.76	5,653.38	2,476.73	2,360.73	116.00	21.351		
16,100.00	7,870.00	5,400.00	5,400.00	127.07	93.31	-11.79	-4,236.76	5,653.38	2,490.00	2,370.54	119.46	20.844		
16,200.00	7,870.00	5,400.00	5,400.00	128.04	93.31	-11.79	-4,236.76	5,653.38	2,507.20	2,383.94	123.26	20.342		
16,300.00	7,870.00	5,400.00	5,400.00	129.04	93.31	-11.79	-4,236.76	5,653.38	2,528.23	2,400.96	127.28	19.864		
16,400.00	7,870.00	5,400.00	5,400.00	130.06	93.31	-11.79	-4,236.76	5,653.38	2,553.02	2,421.58	131.44	19.424		
16,500.00	7,870.00	5,400.00	5,400.00	131.11	93.31	-11.79	-4,236.76	5,653.38	2,581.44	2,445.78	135.65	19.029		
16,600.00	7,870.00	5,400.00	5,400.00	132.19	93.31	-11.79	-4,236.76	5,653.38	2,613.38	2,473.51	139.87	18.684		
16,700.00	7,870.00	5,400.00	5,400.00	133.29	93.31	-11.79	-4,236.76	5,653.38	2,648.71	2,504.68	144.04	18.389		
16,800.00	7,870.00	5,400.00	5,400.00	134.42	93.31	-11.79	-4,236.76	5,653.38	2,687.31	2,539.20	148.11	18.144		
16,900.00	7,870.00	5,400.00	5,400.00	135.57	93.31	-11.79	-4,236.76	5,653.38	2,729.02	2,576.96	152.06	17.947		
17,000.00	7,870.00	5,400.00	5,400.00	136.75	93.31	-11.79	-4,236.76	5,653.38	2,773.71	2,617.84	155.87	17.795		
17,100.00	7,870.00	5,400.00	5,400.00	137.94	93.31	-11.79	-4,236.76	5,653.38	2,821.24	2,661.71	159.53	17.685		
17,200.00	7,870.00	5,400.00	5,400.00	139.16	93.31	-11.79	-4,236.76	5,653.38	2,871.47	2,708.45	163.02	17.615		
17,300.00	7,870.00	5,400.00	5,400.00	140.39	93.31	-11.79	-4,236.76	5,653.38	2,924.25	2,757.92	166.33	17.581		
17,400.00	7,870.00	5,400.00	5,400.00	141.65	93.31	-11.79	-4,236.76	5,653.38	2,979.46	2,809.98	169.48	17.580 SF		
17,500.00	7,870.00	5,400.00	5,400.00	142.92	93.31	-11.79	-4,236.76	5,653.38	3,036.96	2,864.51	172.45	17.610		
17,600.00	7,870.00	5,400.00	5,400.00	144.21	93.31	-11.79	-4,236.76	5,653.38	3,096.62	2,921.36	175.26	17.669		
17,700.00	7,870.00	5,400.00	5,400.00	145.52	93.31	-11.79	-4,236.76	5,653.38	3,158.32	2,980.43	177.89	17.754		
17,800.00	7,870.00	5,400.00	5,400.00	146.84	93.31	-11.79	-4,236.76	5,653.38	3,221.94	3,041.57	180.37	17.863		
17,900.00	7,870.00	5,400.00	5,400.00	148.18	93.31	-11.79	-4,236.76	5,653.38	3,287.38	3,104.67	182.70	17.993		
18,000.00	7,870.00	5,400.00	5,400.00	149.54	93.31	-11.79	-4,236.76	5,653.38	3,354.51	3,169.63	184.89	18.144		
18,100.00	7,870.00	5,400.00	5,400.00	150.90	93.31	-11.79	-4,236.76	5,653.38	3,423.26	3,236.33	186.93	18.313		
18,200.00	7,870.00	5,400.00	5,400.00	152.28	93.31	-11.79	-4,236.76	5,653.38	3,493.51	3,304.66	188.85	18.499		
18,300.00	7,870.00	5,400.00	5,400.00	153.67	93.31	-11.79	-4,236.76	5,653.38	3,565.19	3,374.55	190.64	18.701		
18,400.00	7,870.00	5,400.00	5,400.00	155.07	93.31	-11.79	-4,236.76	5,653.38	3,638.20	3,445.88	192.32	18.917		
18,500.00	7,870.00	5,400.00	5,400.00	156.49	93.31	-11.79	-4,236.76	5,653.38	3,712.47	3,518.58	193.89	19.147		
18,600.00	7,870.00	5,400.00	5,400.00	157.91	93.31	-11.79	-4,236.76	5,653.38	3,787.92	3,592.56	195.36	19.390		
18,700.00	7,870.00	5,400.00	5,400.00	159.35	93.31	-11.79	-4,236.76	5,653.38	3,864.49	3,667.76	196.73	19.643		
18,800.00	7,870.00	5,400.00	5,400.00	160.79	93.31	-11.79	-4,236.76	5,653.38	3,942.11	3,744.09	198.02	19.908		
18,900.00	7,870.00	5,400.00	5,400.00	162.25	93.31	-11.79	-4,236.76	5,653.38	4,020.71	3,821.49	199.22	20.182		
19,000.00	7,870.00	5,400.00	5,400.00	163.71	93.31	-11.79	-4,236.76	5,653.38	4,100.25	3,899.90	200.35	20.465		
19,100.00	7,870.00	5,400.00	5,400.00	165.18	93.31	-11.79	-4,236.76	5,653.38	4,180.67	3,979.26	201.41	20.758		
19,200.00	7,870.00	5,400.00	5,400.00	166.66	93.31	-11.79	-4,236.76	5,653.38	4,261.92	4,059.52	202.39	21.057		
19,300.00	7,870.00	5,400.00	5,400.00	168.15	93.31	-11.79	-4,236.76	5,653.38	4,343.95	4,140.62	203.32	21.365		

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 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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	
19,400.00	7,870.00	5,400.00	5,400.00	169.65	93.31	-11.79	-4,236.76	5,653.38	4,426.71	4,222.52	204.19	21.679	
19,500.00	7,870.00	5,400.00	5,400.00	171.15	93.31	-11.79	-4,236.76	5,653.38	4,510.18	4,305.17	205.01	22.000	
19,600.00	7,870.00	5,400.00	5,400.00	172.66	93.31	-11.79	-4,236.76	5,653.38	4,594.31	4,388.53	205.77	22.327	
19,700.00	7,870.00	5,400.00	5,400.00	174.18	93.31	-11.79	-4,236.76	5,653.38	4,679.06	4,472.57	206.49	22.660	
19,800.00	7,870.00	5,400.00	5,400.00	175.70	93.31	-11.79	-4,236.76	5,653.38	4,764.40	4,557.23	207.17	22.998	
19,889.26	7,870.00	5,400.00	5,400.00	177.06	93.31	-11.79	-4,236.76	5,653.38	4,841.05	4,633.31	207.74	23.304	

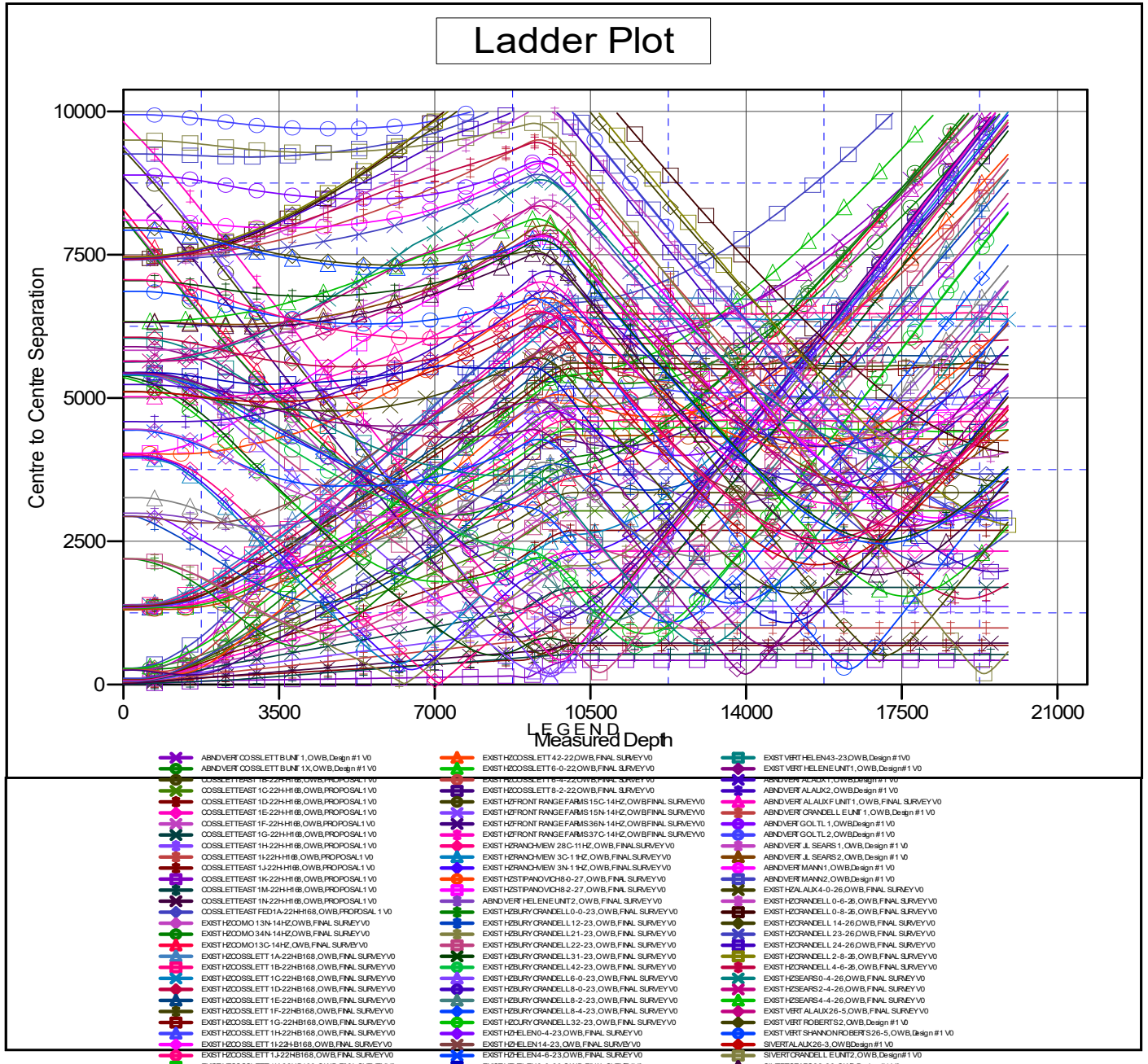
Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1L-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 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 1L-22H-H168

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.33°



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

Anticollision Report

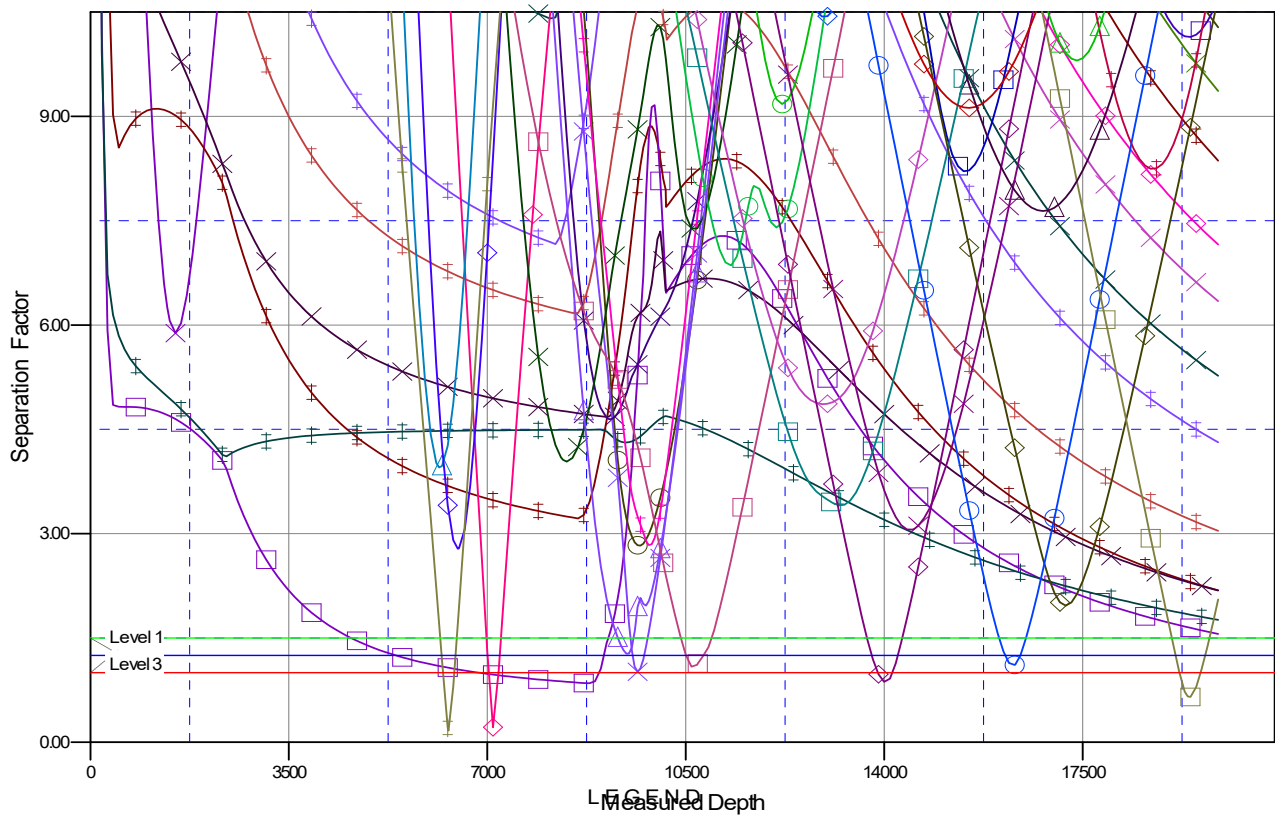
Company: CRESTONE PEAK RESOURCES
Project: WELD COUNTY
Reference Site: SEC 22-T1N-R68W
Site Error: 0.00 usft
Reference Well: COSSLETT EAST 1L-22H-H168
Well Error: 0.00 usft
Reference Wellbore: OWB
Reference Design: PROPOSAL 1

Local Co-ordinate Reference: Well COSSLETT EAST 1L-22H-H168
TVD Reference: KB 25' @ 5206.00usft
MD Reference: KB 25' @ 5206.00usft
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDT_32Bit_ODBC
Offset TVD Reference: Offset Datum

Reference Depths are relative to KB 25' @ 5206.00usft
Offset Depths are relative to Offset Datum
Central Meridian is 105.500000°W

Coordinates are relative to: COSSLETT EAST 1L-22H-H168
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.33°

Separation Factor Plot



- | | | |
|--|--|---|
| ABND VERT COSSLETT B UNF 1, OWB, Design #1 V0 | EXIST H2COSSLETT 42-22-OWB, FINAL SURVEY V0 | EXIST VERT HELEN43-23-OWB, Design #1 V0 |
| ABND VERT COSSLETT B UNF 1X, OWB, Design #1 V0 | EXIST H2COSSLETT 6-0-22-OWB, FINAL SURVEY V0 | EXIST VERT HELEN43-23-OWB, Design #1 V0 |
| COSSLETT EAST 10-22H-H168, OWB, PROPOSAL 1 V0 | EXIST H2COSSLETT 8-2-22-OWB, FINAL SURVEY V0 | ABND VERT ALAUX2, OWB, Design #1 V0 |
| COSSLETT EAST 10-22H-H168, OWB, PROPOSAL 1 V0 | EXIST H2FRONT RANGE FARMS 15C-14HZ, OWB, FINAL SURVEY V0 | ABND VERT ALAUX1 UNIT1, OWB, FINAL SURVEY V0 |
| COSSLETT EAST 16-22H-H168, OWB, PROPOSAL 1 V0 | EXIST H2FRONT RANGE FARMS 15N-14HZ, OWB, FINAL SURVEY V0 | ABND VERT CRANDELL L, UNIT1, OWB, Design #1 V0 |
| COSSLETT EAST 1F-22H-H168, OWB, PROPOSAL 1 V0 | EXIST H2FRONT RANGE FARMS 36N-14HZ, OWB, FINAL SURVEY V0 | ABND VERT GOLTL, 1, OWB, Design #1 V0 |
| COSSLETT EAST 1H-22H-H168, OWB, PROPOSAL 1 V0 | EXIST H2FRONT RANGE FARMS 37C-14HZ, OWB, FINAL SURVEY V0 | ABND VERT GOLTL, 2, OWB, Design #1 V0 |
| COSSLETT EAST 1G-22H-H168, OWB, PROPOSAL 1 V0 | EXIST H2RANCH VIEW 28C-11HZ, OWB, FINAL SURVEY V0 | ABND VERT J. SEARS 1, OWB, Design #1 V0 |
| COSSLETT EAST 1H-22H-H168, OWB, PROPOSAL 1 V0 | EXIST H2RANCH VIEW 3C-1HZ, OWB, FINAL SURVEY V0 | ABND VERT J. SEARS 2, OWB, Design #1 V0 |
| COSSLETT EAST 1J-22H-H168, OWB, PROPOSAL 1 V0 | EXIST H2RANCH VIEW 3N-1HZ, OWB, FINAL SURVEY V0 | ABND VERT MANN1, OWB, Design #1 V0 |
| COSSLETT EAST 1K-22H-H168, OWB, PROPOSAL 1 V0 | EXIST H2STPANDOVICH 0-27, OWB, FINAL SURVEY V0 | ABND VERT MANN2, OWB, Design #1 V0 |
| COSSLETT EAST 1M-22H-H168, OWB, PROPOSAL 1 V0 | EXIST H2STPANDOVICH 2-27, OWB, FINAL SURVEY V0 | EXIST H2ALAUKA-0-26-OWB, FINAL SURVEY V0 |
| COSSLETT EAST 1N-22H-H168, OWB, PROPOSAL 1 V0 | ABND VERT HELEN43-23, OWB, FINAL SURVEY V0 | EXIST H2CRANDELL 0-6-26, OWB, FINAL SURVEY V0 |
| COSSLETT EAST FED 1A-22H-H168, OWB, PROPOSAL 1 V0 | EXIST H2BURY CRANDELL 0-0-23, OWB, FINAL SURVEY V0 | EXIST H2CRANDELL 0-8-26, OWB, FINAL SURVEY V0 |
| EXIST H2COMO 13N-14HZ, OWB, FINAL SURVEY V0 | EXIST H2BURY CRANDELL 1, 2-23, OWB, FINAL SURVEY V0 | EXIST H2CRANDELL 1, 4-26, OWB, FINAL SURVEY V0 |
| EXIST H2COMO 34N-14HZ, OWB, FINAL SURVEY V0 | EXIST H2BURY CRANDELL 2, 1-23, OWB, FINAL SURVEY V0 | EXIST H2CRANDELL 2, 3-26, OWB, FINAL SURVEY V0 |
| EXIST H2COMO 13C-14HZ, OWB, FINAL SURVEY V0 | EXIST H2BURY CRANDELL 2, 2-23, OWB, FINAL SURVEY V0 | EXIST H2CRANDELL 2, 4-26, OWB, FINAL SURVEY V0 |
| EXIST H2COSSLETT 10-22H-H168, OWB, FINAL SURVEY V0 | EXIST H2BURY CRANDELL 3, 1-23, OWB, FINAL SURVEY V0 | EXIST H2CRANDELL 2, 8-26, OWB, FINAL SURVEY V0 |
| EXIST H2COSSLETT 1B-22H-H168, OWB, FINAL SURVEY V0 | EXIST H2BURY CRANDELL 4, 2-23, OWB, FINAL SURVEY V0 | EXIST H2CRANDELL 4, 6-26, OWB, FINAL SURVEY V0 |
| EXIST H2COSSLETT 1C-22H-H168, OWB, FINAL SURVEY V0 | EXIST H2BURY CRANDELL 6, 0-23, OWB, FINAL SURVEY V0 | EXIST H2SEARS 0-4-26, OWB, FINAL SURVEY V0 |
| EXIST H2COSSLETT 1D-22H-H168, OWB, FINAL SURVEY V0 | EXIST H2BURY CRANDELL 8, 0-23, OWB, FINAL SURVEY V0 | EXIST H2SEARS 2, 4-26, OWB, FINAL SURVEY V0 |
| EXIST H2COSSLETT 1E-22H-H168, OWB, FINAL SURVEY V0 | EXIST H2BURY CRANDELL 8, 2-23, OWB, FINAL SURVEY V0 | EXIST H2SEARS 4, 4-26, OWB, FINAL SURVEY V0 |
| EXIST H2COSSLETT 1F-22H-H168, OWB, FINAL SURVEY V0 | EXIST H2BURY CRANDELL 8, 4-23, OWB, FINAL SURVEY V0 | EXIST VERT ALAUX26-5, OWB, FINAL SURVEY V0 |
| EXIST H2COSSLETT 1G-22H-H168, OWB, FINAL SURVEY V0 | EXIST H2BURY CRANDELL 3, 1-23, OWB, FINAL SURVEY V0 | EXIST VERT ROBERTS2, OWB, Design #1 V0 |
| EXIST H2COSSLETT 1H-22H-H168, OWB, FINAL SURVEY V0 | EXIST H2HELEN4-4-23, OWB, FINAL SURVEY V0 | EXIST VERT SHANNON ROBERTS26-5, OWB, Design #1 V0 |
| EXIST H2COSSLETT 1I-22H-H168, OWB, FINAL SURVEY V0 | EXIST H2HELEN4-6-23, OWB, FINAL SURVEY V0 | SIVERTALAU26-3, OWB, Design #1 V0 |
| EXIST H2COSSLETT 1J-22H-H168, OWB, FINAL SURVEY V0 | EXIST H2HELEN4-6-23, OWB, FINAL SURVEY V0 | SIVERTALAU26-3, OWB, Design #1 V0 |

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