CRESTONE PEAK RESOURCES

WELD COUNTY
SEC 22-T1N-R68W
COSSLETT EAST 1F-22H-H168

OWB
PROPOSAL 1

Anticollision Report

01 March, 2022

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 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	18,711.30	PROPOSAL 1 (OWB)	MWD OWSG	OWSG MWD - Standard

Summary

Site Name / Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
SEC 22-T1N-R68W						
ABND VERT COSSLETT B UNIT 1 - OWB - Design #1	2,158.74	2,102.63	100.67	56.14	2.261	CC, ES
ABND VERT COSSLETT B UNIT 1 - OWB - Design #1	2,200.00	2,139.84	102.23	56.82	2.251	SF
ABND VERT COSSLETT B UNIT 1X - OWB - Design #1	1,714.05	1,688.14	231.94	197.26	6.689	CC
ABND VERT COSSLETT B UNIT 1X - OWB - Design #1	1,800.00	1,770.27	233.32	196.79	6.388	ES
ABND VERT COSSLETT B UNIT 1X - OWB - Design #1	2,000.00	1,958.17	250.16	209.35	6.129	SF
COSSLETT EAST 1B-22H-H168 - OWB - PROPOSAL 1	900.00	900.00	39.76	33.76	6.622	CC, ES
COSSLETT EAST 1B-22H-H168 - OWB - PROPOSAL 1	18,711.30	18,449.67	1,363.19	1,037.68	4.188	SF
COSSLETT EAST 1C-22H-H168 - OWB - PROPOSAL 1	900.00	900.00	29.96	23.96	4.990	CC, ES
COSSLETT EAST 1C-22H-H168 - OWB - PROPOSAL 1	18,711.30	18,421.90	1,025.96	699.64	3.144	SF
COSSLETT EAST 1D-22H-H168 - OWB - PROPOSAL 1	900.00	900.00	19.88	13.88	3.311	CC, ES
COSSLETT EAST 1D-22H-H168 - OWB - PROPOSAL 1	18,711.30	18,455.70	669.82	344.44	2.059	SF
COSSLETT EAST 1E-22H-H168 - OWB - PROPOSAL 1	900.00	900.00	9.80	3.80	1.632	CC, ES
COSSLETT EAST 1E-22H-H168 - OWB - PROPOSAL 1	18,711.30	18,796.03	407.21	111.95	1.379	Level 3, SF
COSSLETT EAST 1G-22H-H168 - OWB - PROPOSAL 1	800.00	799.00	10.08	4.80	1.908	CC, ES
COSSLETT EAST 1G-22H-H168 - OWB - PROPOSAL 1	18,711.30	18,943.51	339.24	35.36	1.116	Level 2, SF
COSSLETT EAST 1H-22H-H168 - OWB - PROPOSAL 1	700.00	699.00	20.16	15.60	4.415	CC, ES
COSSLETT EAST 1H-22H-H168 - OWB - PROPOSAL 1	18,711.30	19,021.79	670.12	345.52	2.064	SF
COSSLETT EAST 1I-22H-H168 - OWB - PROPOSAL 1	600.00	599.00	29.96	26.11	7.782	CC, ES
COSSLETT EAST 1I-22H-H168 - OWB - PROPOSAL 1	18,711.30	19,387.83	1,050.74	738.96	3.370	SF
COSSLETT EAST 1J-22H-H168 - OWB - PROPOSAL 1	500.00	498.00	40.04	36.91	12.795	CC, ES
COSSLETT EAST 1J-22H-H168 - OWB - PROPOSAL 1	18,711.30	19,430.54	1,344.55	1,022.57	4.176	SF
COSSLETT EAST 1K-22H-H168 - OWB - PROPOSAL 1	400.00	398.00	50.12	47.71	20.776	CC, ES
COSSLETT EAST 1K-22H-H168 - OWB - PROPOSAL 1	18,711.30	19,518.56	1,659.64	1,334.46	5.104	SF
COSSLETT EAST 1L-22H-H168 - OWB - PROPOSAL 1	300.00	298.00	60.20	58.51	35.505	CC, ES
COSSLETT EAST 1L-22H-H168 - OWB - PROPOSAL 1	18,711.30	19,897.79	2,025.67	1,706.03	6.337	SF
COSSLETT EAST 1M-22H-H168 - OWB - PROPOSAL 1	200.00	198.00	70.00	69.02	71.530	CC, ES
COSSLETT EAST 1M-22H-H168 - OWB - PROPOSAL 1	18,711.30	19,796.12	2,363.46	2,036.14	7.221	SF
COSSLETT EAST 1N-22H-H168 - OWB - PROPOSAL 1	100.00	98.00	80.08	79.82	300.881	CC, ES
COSSLETT EAST 1N-22H-H168 - OWB - PROPOSAL 1	18,711.30	20,184.95	2,721.85	2,397.59	8.394	SF
COSSLETT EAST FED 1A-22H-H168 - OWB - PROPOS	900.00	900.00	50.12	44.12	8.348	CC, ES
COSSLETT EAST FED 1A-22H-H168 - OWB - PROPOS	18,711.30	18,147.14	1,659.61	1,334.08	5.098	SF
EXIST HZ COMO 13N-14HZ - OWB - FINAL SURVEY	8,209.86	16,144.86	1,072.18	883.50	5.682	CC
EXIST HZ COMO 13N-14HZ - OWB - FINAL SURVEY	8,300.00	16,168.20	1,075.80	881.36	5.533	ES
EXIST HZ COMO 13N-14HZ - OWB - FINAL SURVEY	8,500.00	16,236.00	1,104.73	901.14	5.426	SF
EXIST HZ COMO 34N-14HZ - OWB - FINAL SURVEY	8,002.57	16,581.25	1,673.32	1,484.61	8.867	CC
EXIST HZ COMO 34N-14HZ - OWB - FINAL SURVEY	8,100.00	16,573.52	1,676.09	1,483.07	8.684	ES
EXIST HZ COMO 34N-14HZ - OWB - FINAL SURVEY	8,500.00	16,659.00	1,736.48	1,530.61	8.435	SF

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 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 Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
SEC 22-T1N-R68W						
EXIST HZ COMO13C-14HZ - OWB - FINAL SURVEY	8,218.89	16,527.57	1,550.13	1,362.07	8.243	CC
EXIST HZ COMO13C-14HZ - OWB - FINAL SURVEY	8,300.00	16,530.00	1,551.90	1,359.79	8.078	ES
EXIST HZ COMO13C-14HZ - OWB - FINAL SURVEY	8,650.00	16,530.00	1,597.71	1,392.68	7.793	SF
EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SU	0.00	0.00	1,345.10			
EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SU	200.00	178.85	1,345.69	1,344.91	1,739.096	ES
EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SU	18,700.00	17,551.11	4,725.31	4,393.45	14.239	SF
EXIST HZ COSSLETT 1B-22H-B168 - OWB - FINAL SU	543.57	537.13	1,334.94	1,331.58	398.027	CC, ES
EXIST HZ COSSLETT 1B-22H-B168 - OWB - FINAL SU	18,711.30	17,340.00	4,463.25	4,131.00	13.434	SF
EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SU	293.13	282.14	1,328.54	1,327.06	898.484	CC
EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SU	600.00	583.39	1,329.05	1,325.42	365.392	ES
EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SU	18,711.30	17,471.00	4,369.70	4,037.04	13.136	SF
EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SU	100.00	88.01	1,320.90	1,320.62	4,704.807	CC
EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SU	400.00	381.95	1,321.58	1,319.61	671.608	ES
EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SU	18,711.30	17,442.70	4,007.11	3,676.57	12.123	SF
EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SU	623.27	616.87	1,281.16	1,278.61	502.963	CC
EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SU	700.00	678.52	1,281.54	1,278.46	415.470	ES
EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SU	18,711.30	17,360.55	3,729.44	3,400.69	11.344	SF
EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SU	100.00	88.52	1,304.53	1,304.25	4,706.590	CC
EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SU	400.00	379.32	1,305.29	1,303.17	617.782	ES
EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SU	18,711.30	17,796.00	3,594.97	3,261.89	10.793	SF
EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SU	100.00	87.76	1,296.71	1,296.43	4,624.369	CC
EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SU	1,000.00	988.84	1,299.59	1,293.35	208.302	ES
EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SU	18,711.30	17,487.00	3,491.07	3,158.29	10.491	SF
EXIST HZ COSSLETT 1H-22H-B168 - OWB - FINAL SU	332.35	320.35	1,288.11	1,286.30	712.876	CC
EXIST HZ COSSLETT 1H-22H-B168 - OWB - FINAL SU	1,400.00	1,443.98	1,290.59	1,280.68	130.146	ES
EXIST HZ COSSLETT 1H-22H-B168 - OWB - FINAL SU	18,711.30	17,422.27	3,132.81	2,811.74	9.757	SF
EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SUR	1,337.55	1,387.39	1,259.97	1,250.73	136.319	CC
EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SUR	1,803.80	1,921.43	1,263.32	1,249.23	89.669	ES
EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SUR	18,700.00	17,583.00	2,794.31	2,461.80	8.404	SF
EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SUR	1,510.77	1,581.26	1,239.20	1,228.03	110.931	CC
EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SUR	2,200.00	2,332.48	1,241.42	1,222.24	64.741	ES
EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SUR	18,711.30	17,618.84	2,591.39	2,260.32	7.827	SF
EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SU	2,138.38	2,275.30	1,209.34	1,190.63	64.641	CC
EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SU	2,200.00	2,315.59	1,209.79	1,190.44	62.505	ES
EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SU	18,400.00	17,390.00	2,450.86	2,137.76	7.828	SF
EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SU	2,352.59	2,489.95	1,171.36	1,148.97	52.318	CC
EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SU	2,400.00	2,527.61	1,171.66	1,148.69	51.000	ES
EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SU	18,711.30	17,818.32	2,263.16	1,930.11	6.795	SF
EXIST HZ COSSLETT 32-22 - OWB - FINAL SURVEY	581.72	573.29	224.09	220.41	60.812	CC
EXIST HZ COSSLETT 32-22 - OWB - FINAL SURVEY	600.00	591.14	224.12	220.29	58.605	ES
EXIST HZ COSSLETT 32-22 - OWB - FINAL SURVEY	1,300.00	1,267.84	293.70	284.35	31.401	SF
EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY	0.00	0.00	251.20			
EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY	100.00	88.42	251.28	251.00	900.047	ES
EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY	5,500.00	5,500.00	2,936.61	2,878.32	50.373	SF
EXIST HZ COSSLETT 41-22 - OWB - FINAL SURVEY	100.00	89.24	242.06	241.78	865.972	CC
EXIST HZ COSSLETT 41-22 - OWB - FINAL SURVEY	200.00	187.44	242.65	241.75	271.281	ES
EXIST HZ COSSLETT 41-22 - OWB - FINAL SURVEY	3,200.00	3,081.08	591.95	560.27	18.688	SF
EXIST HZ COSSLETT 42-22 - OWB - FINAL SURVEY	1,691.34	1,694.91	11.78	-0.34	0.972	Level 1, CC, ES, SF
EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY	160.91	152.28	246.54	245.94	409.949	CC
EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY	200.00	187.98	246.70	245.80	276.248	ES
EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY	3,800.00	3,506.12	1,229.66	1,190.11	31.086	SF
EXIST HZ COSSLETT 6-4-22 - OWB - FINAL SURVEY	1,236.88	1,255.31	104.66	95.25	11.126	CC, ES
EXIST HZ COSSLETT 6-4-22 - OWB - FINAL SURVEY	1,300.00	1,314.88	107.48	97.43	10.694	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 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 Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
SEC 22-T1N-R68W						
EXIST HZ COSSLETT 8-2-22 - OWB - FINAL SURVEY	2,768.38	2,703.55	3.39	-22.64	0.130	Level 1, CC, ES, SF
EXIST HZ FRONT RANGE FARMS 15C-14HZ - OWB - F	8,700.00	15,353.00	1,504.30	1,336.27	8.953	SF
EXIST HZ FRONT RANGE FARMS 15C-14HZ - OWB - F	8,800.00	15,353.00	1,492.76	1,327.59	9.038	ES
EXIST HZ FRONT RANGE FARMS 15C-14HZ - OWB - F	8,811.38	15,353.00	1,492.64	1,327.82	9.056	CC
EXIST HZ FRONT RANGE FARMS 15N-14HZ - OWB - F	8,700.00	15,243.00	1,804.20	1,629.74	10.342	SF
EXIST HZ FRONT RANGE FARMS 15N-14HZ - OWB - F	8,800.00	15,243.00	1,794.00	1,621.89	10.424	ES
EXIST HZ FRONT RANGE FARMS 15N-14HZ - OWB - F	8,813.29	15,243.00	1,793.86	1,622.08	10.443	CC
EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - F	8,650.00	15,134.00	911.25	743.60	5.436	SF
EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - F	8,700.00	15,134.00	904.07	738.81	5.470	ES
EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - F	8,738.87	15,134.00	902.36	739.11	5.528	CC
EXIST HZ FRONT RANGE FARMS 37C-14HZ - OWB - F	8,650.00	15,352.00	2,399.93	2,224.79	13.703	SF
EXIST HZ FRONT RANGE FARMS 37C-14HZ - OWB - F	8,846.84	15,352.00	2,371.13	2,200.22	13.874	CC, ES
EXIST HZ RANCHVIEW 28C-11HZ - OWB - FINAL SUR	8,850.00	7,720.33	431.48	350.74	5.344	SF
EXIST HZ RANCHVIEW 28C-11HZ - OWB - FINAL SUR	8,950.00	7,686.88	407.68	333.20	5.473	ES
EXIST HZ RANCHVIEW 28C-11HZ - OWB - FINAL SUR	8,979.56	7,675.74	406.37	333.73	5.594	CC
EXIST HZ RANCHVIEW 3C-11HZ - OWB - FINAL SURV	7,023.79	6,277.15	373.23	284.21	4.193	CC, ES, SF
EXIST HZ RANCHVIEW 3N-11HZ - OWB - FINAL SURV	8,814.37	7,722.55	236.80	166.13	3.351	CC
EXIST HZ RANCHVIEW 3N-11HZ - OWB - FINAL SURV	8,850.00	7,702.12	238.24	165.58	3.279	ES
EXIST HZ RANCHVIEW 3N-11HZ - OWB - FINAL SURV	8,900.00	7,677.63	245.11	168.95	3.218	SF
EXIST HZ STIPANOVICH 8-0-27 - OWB - FINAL SURVE	13,932.82	7,704.53	2,120.55	2,009.15	19.036	CC, ES
EXIST HZ STIPANOVICH 8-0-27 - OWB - FINAL SURVE	14,000.00	7,703.78	2,121.61	2,009.98	19.005	SF
EXIST HZ STIPANOVICH 8-2-27 - OWB - FINAL SURVE	15,200.00	7,797.93	2,111.53	1,975.86	15.563	SF
EXIST HZ STIPANOVICH 8-2-27 - OWB - FINAL SURVE	15,214.24	7,797.60	2,111.49	1,975.83	15.565	CC, ES

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 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 Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
SEC 23-T1N-R68W						
ABND VERT HELEN E UNIT 2 - OWB - FINAL SURVEY	12,398.17	7,579.07	1,128.87	1,040.87	12.829	CC, ES, SF
EXIST HZ BURY CRANDELL 0-0-23 - OWB - FINAL SU	4,945.70	4,432.78	584.71	530.02	10.691	CC, ES
EXIST HZ BURY CRANDELL 0-0-23 - OWB - FINAL SU	5,100.00	4,548.19	593.39	536.71	10.470	SF
EXIST HZ BURY CRANDELL 12-23 - OWB - FINAL SUR	10,548.15	7,937.90	1,384.83	1,300.87	16.494	CC, ES
EXIST HZ BURY CRANDELL 12-23 - OWB - FINAL SUR	10,700.00	7,942.63	1,393.12	1,307.90	16.347	SF
EXIST HZ BURY CRANDELL 21-23 - OWB - FINAL SUR	9,073.74	7,741.68	65.01	-6.37	0.911	Level 1, CC
EXIST HZ BURY CRANDELL 21-23 - OWB - FINAL SUR	9,100.00	7,741.95	70.12	-17.09	0.804	Level 1, ES, SF
EXIST HZ BURY CRANDELL 22-23 - OWB - FINAL SUR	10,423.58	7,749.08	211.35	137.68	2.869	CC, ES, SF
EXIST HZ BURY CRANDELL 31-23 - OWB - FINAL SUR	8,700.00	7,585.72	1,379.77	1,297.07	16.684	SF
EXIST HZ BURY CRANDELL 31-23 - OWB - FINAL SUR	9,006.60	7,652.82	1,296.29	1,223.19	17.732	ES
EXIST HZ BURY CRANDELL 31-23 - OWB - FINAL SUR	9,069.47	7,653.03	1,294.77	1,223.54	18.177	CC
EXIST HZ BURY CRANDELL 42-23 - OWB - FINAL SUR	10,480.35	7,658.24	2,655.56	2,581.60	35.906	CC, ES
EXIST HZ BURY CRANDELL 42-23 - OWB - FINAL SUR	12,100.00	7,675.45	3,110.45	3,011.80	31.529	SF
EXIST HZ BURY CRANDELL 6-0-23 - OWB - FINAL SU	8,500.00	7,495.03	1,855.65	1,778.14	23.941	SF
EXIST HZ BURY CRANDELL 6-0-23 - OWB - FINAL SU	8,840.24	7,645.91	1,783.22	1,712.33	25.157	CC, ES
EXIST HZ BURY CRANDELL 8-0-23 - OWB - FINAL SU	8,450.00	7,483.32	3,248.17	3,170.06	41.582	SF
EXIST HZ BURY CRANDELL 8-0-23 - OWB - FINAL SU	8,882.89	7,678.92	3,152.49	3,081.12	44.170	CC, ES
EXIST HZ BURY CRANDELL 8-2-23 - OWB - FINAL SU	8,650.00	7,534.89	3,375.62	3,290.07	39.455	SF
EXIST HZ BURY CRANDELL 8-2-23 - OWB - FINAL SU	9,796.12	7,636.74	3,131.87	3,063.44	45.770	CC, ES
EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SU	11,098.51	7,767.15	3,092.72	3,006.43	35.841	CC
EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SU	11,100.00	7,767.17	3,092.72	3,006.42	35.833	ES
EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SU	12,800.00	7,801.31	3,529.69	3,412.39	30.092	SF
EXIST HZ CURY CRANDELL 32-23 - OWB - FINAL SUR	10,000.00	7,725.19	1,241.35	1,152.71	14.005	SF
EXIST HZ CURY CRANDELL 32-23 - OWB - FINAL SUR	10,530.48	7,727.42	1,122.30	1,046.87	14.878	CC, ES
EXIST HZ HELEN 0-4-23 - OWB - FINAL SURVEY	11,312.83	7,819.00	1,987.26	1,905.36	24.264	CC, ES
EXIST HZ HELEN 0-4-23 - OWB - FINAL SURVEY	11,400.00	7,819.00	1,989.17	1,907.03	24.217	SF
EXIST HZ HELEN 14-23 - OWB - FINAL SURVEY	13,300.00	7,719.69	1,295.36	1,188.95	12.173	SF
EXIST HZ HELEN 14-23 - OWB - FINAL SURVEY	13,348.44	7,719.58	1,294.45	1,188.13	12.175	CC, ES
EXIST HZ HELEN 4-6-23 - OWB - FINAL SURVEY	12,521.59	7,670.08	588.53	495.83	6.349	CC, ES
EXIST HZ HELEN 4-6-23 - OWB - FINAL SURVEY	12,700.00	7,665.23	614.96	515.21	6.165	SF
EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY	13,732.85	7,881.08	3,085.62	2,975.43	28.003	CC
EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY	13,800.00	7,880.85	3,086.35	2,974.40	27.569	ES
EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY	15,200.00	7,874.20	3,416.65	3,271.58	23.552	SF
EXIST VERT BURY CRANDELL C UNIT 1 - OWB - Desi	8,950.00	7,525.55	2,291.72	2,108.22	12.489	SF
EXIST VERT BURY CRANDELL C UNIT 1 - OWB - Desi	9,500.00	7,528.00	2,217.02	2,045.04	12.891	ES
EXIST VERT BURY CRANDELL C UNIT 1 - OWB - Desi	9,525.84	7,528.00	2,216.87	2,045.26	12.918	CC
EXIST VERT HELEN 23-23 - OWB - Design #1	11,745.04	7,559.00	223.89	39.71	1.216	Level 2, CC, ES, SF
EXIST VERT HELEN 33-23 - OWB - Design #1	11,736.84	7,580.00	1,066.97	882.52	5.785	CC, ES
EXIST VERT HELEN 33-23 - OWB - Design #1	11,900.00	7,580.00	1,079.38	890.87	5.726	SF
EXIST VERT HELEN 34-23 - OWB - Design #1	13,356.91	7,571.00	1,352.78	1,146.87	6.570	CC
EXIST VERT HELEN 34-23 - OWB - Design #1	13,400.00	7,571.00	1,353.47	1,146.16	6.529	ES
EXIST VERT HELEN 34-23 - OWB - Design #1	13,600.00	7,571.00	1,374.45	1,160.91	6.436	SF
EXIST VERT HELEN 43-23 - OWB - Design #1	11,876.74	7,563.00	2,683.20	2,497.43	14.444	CC
EXIST VERT HELEN 43-23 - OWB - Design #1	11,900.00	7,563.00	2,683.30	2,497.15	14.414	ES
EXIST VERT HELEN 43-23 - OWB - Design #1	12,700.00	7,563.00	2,806.65	2,604.71	13.898	SF
EXIST VERT HELEN E UNIT 1 - OWB - Design #1	12,804.55	7,569.00	2,189.51	1,991.59	11.063	CC
EXIST VERT HELEN E UNIT 1 - OWB - Design #1	12,900.00	7,569.00	2,191.59	1,991.41	10.948	ES
EXIST VERT HELEN E UNIT 1 - OWB - Design #1	13,400.00	7,569.00	2,269.03	2,057.04	10.704	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 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 Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
SEC 26-T1N-R68W						
ABND VERT ALAUX 1 - OWB - Design #1	14,542.96	5,050.00	2,541.81	2,462.16	31.911	CC
ABND VERT ALAUX 1 - OWB - Design #1	14,600.00	5,050.00	2,542.45	2,461.96	31.586	ES
ABND VERT ALAUX 1 - OWB - Design #1	16,200.00	5,050.00	3,034.23	2,904.90	23.461	SF
ABND VERT ALAUX 2 - OWB - Design #1	14,547.57	5,450.00	2,550.66	2,433.38	21.748	CC, ES
ABND VERT ALAUX 2 - OWB - Design #1	15,400.00	5,450.00	2,689.34	2,561.88	21.101	SF
ABND VERT ALAUX F UNIT 1 - OWB - FINAL SURVEY	14,700.00	7,610.15	1,152.10	1,027.22	9.225	SF
ABND VERT ALAUX F UNIT 1 - OWB - FINAL SURVEY	14,800.00	7,610.46	1,146.89	1,022.70	9.235	ES
ABND VERT ALAUX F UNIT 1 - OWB - FINAL SURVEY	14,809.91	7,610.49	1,146.85	1,022.75	9.242	CC
ABND VERT CRANDELL E UNIT 1 - OWB - Design #1	17,400.00	7,634.00	1,053.36	778.44	3.832	SF
ABND VERT CRANDELL E UNIT 1 - OWB - Design #1	17,489.15	7,634.00	1,049.58	775.67	3.832	CC, ES
ABND VERT GOLTL 1 - OWB - Design #1	17,160.26	5,042.00	3,581.53	3,398.08	19.523	CC
ABND VERT GOLTL 1 - OWB - Design #1	17,200.00	5,042.00	3,581.75	3,397.41	19.431	ES
ABND VERT GOLTL 1 - OWB - Design #1	18,300.00	5,042.00	3,758.50	3,552.21	18.220	SF
ABND VERT GOLTL 2 - OWB - Design #1	18,478.99	5,020.00	3,597.14	3,397.35	18.005	CC
ABND VERT GOLTL 2 - OWB - Design #1	18,600.00	5,020.00	3,599.17	3,396.65	17.772	ES
ABND VERT GOLTL 2 - OWB - Design #1	18,711.30	5,020.00	3,604.63	3,399.64	17.585	SF
ABND VERT JL SEARS 1 - OWB - Design #1	15,875.79	5,125.00	2,826.26	2,703.65	23.051	CC
ABND VERT JL SEARS 1 - OWB - Design #1	15,900.00	5,125.00	2,826.36	2,703.60	23.022	ES
ABND VERT JL SEARS 1 - OWB - Design #1	16,700.00	5,125.00	2,943.99	2,812.85	22.450	SF
ABND VERT JL SEARS 2 - OWB - Design #1	15,842.75	5,148.00	2,439.84	2,349.95	27.142	CC
ABND VERT JL SEARS 2 - OWB - Design #1	15,900.00	5,148.00	2,440.51	2,349.76	26.893	ES
ABND VERT JL SEARS 2 - OWB - Design #1	17,300.00	5,148.00	2,841.90	2,707.74	21.184	SF
ABND VERT MANN 1 - OWB - Design #1	17,143.48	5,050.00	2,817.96	2,674.54	19.650	CC
ABND VERT MANN 1 - OWB - Design #1	17,200.00	5,050.00	2,818.52	2,673.94	19.495	ES
ABND VERT MANN 1 - OWB - Design #1	18,300.00	5,050.00	3,046.05	2,876.13	17.927	SF
ABND VERT MANN 2 - OWB - Design #1	18,483.73	5,048.00	2,808.39	2,651.90	17.946	CC
ABND VERT MANN 2 - OWB - Design #1	18,500.00	5,048.00	2,808.44	2,651.61	17.907	ES
ABND VERT MANN 2 - OWB - Design #1	18,711.30	5,048.00	2,817.60	2,656.12	17.449	SF
EXIST HZ ALAUX 4-0-26 - OWB - FINAL SURVEY	13,945.15	7,665.34	413.41	302.95	3.743	CC
EXIST HZ ALAUX 4-0-26 - OWB - FINAL SURVEY	14,000.00	7,664.75	417.03	302.74	3.649	ES, SF
EXIST HZ CRANDELL 0-6-26 - OWB - FINAL SURVEY	17,750.09	7,780.56	1,942.49	1,768.32	11.153	CC, ES, SF
EXIST HZ CRANDELL 0-8-26 - OWB - FINAL SURVEY	18,711.30	8,019.13	2,056.27	1,852.06	10.069	CC, ES, SF
EXIST HZ CRANDELL 14-26 - OWB - FINAL SURVEY	18,649.80	7,836.87	1,533.43	1,337.64	7.832	CC, ES, SF
EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY	17,100.00	7,766.85	85.65	-80.59	0.515	Level 1, ES, SF
EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY	17,109.93	7,766.74	85.07	-78.30	0.521	Level 1, CC
EXIST HZ CRANDELL 24-26 - OWB - FINAL SURVEY	18,389.96	7,848.59	26.06	-164.73	0.137	Level 1, CC, SF
EXIST HZ CRANDELL 24-26 - OWB - FINAL SURVEY	18,400.00	7,848.72	28.01	-169.14	0.142	Level 1, ES
EXIST HZ CRANDELL 2-8-26 - OWB - FINAL SURVEY	18,711.30	7,928.69	849.07	646.54	4.192	CC, ES, SF
EXIST HZ CRANDELL 4-6-26 - OWB - FINAL SURVEY	17,773.08	7,896.31	505.74	329.32	2.867	CC
EXIST HZ CRANDELL 4-6-26 - OWB - FINAL SURVEY	17,800.00	7,896.25	506.46	327.52	2.830	ES
EXIST HZ CRANDELL 4-6-26 - OWB - FINAL SURVEY	17,900.00	7,896.01	521.42	335.94	2.811	SF
EXIST HZ SEARS 0-4-26 - OWB - FINAL SURVEY	16,401.50	7,780.32	1,962.00	1,808.43	12.776	CC, ES, SF
EXIST HZ SEARS 2-4-26 - OWB - FINAL SURVEY	16,300.00	7,749.17	755.81	600.86	4.878	SF
EXIST HZ SEARS 2-4-26 - OWB - FINAL SURVEY	16,375.72	7,747.04	752.01	599.17	4.920	CC, ES
EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY	16,421.11	7,667.90	468.64	315.66	3.063	CC, ES
EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY	16,500.00	7,666.47	475.23	316.36	2.991	SF
EXIST VERT ALAUX 26-5 - OWB - FINAL SURVEY	15,500.00	7,619.79	1,437.04	1,299.96	10.484	SF
EXIST VERT ALAUX 26-5 - OWB - FINAL SURVEY	15,588.84	7,619.47	1,434.29	1,297.57	10.491	CC, ES
EXIST VERT ROBERTS 2 - OWB - Design #1	15,914.41	7,589.00	2,517.49	2,270.74	10.203	CC
EXIST VERT ROBERTS 2 - OWB - Design #1	16,000.00	7,589.00	2,518.94	2,269.72	10.107	ES
EXIST VERT ROBERTS 2 - OWB - Design #1	16,500.00	7,589.00	2,584.70	2,323.19	9.884	SF
EXIST VERT SHANNON ROBERTS 26-5 - OWB - Desig	15,123.05	7,570.00	1,741.38	1,507.92	7.459	CC
EXIST VERT SHANNON ROBERTS 26-5 - OWB - Desig	15,200.00	7,570.00	1,743.08	1,507.07	7.386	ES

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 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 Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
SEC 26-T1N-R68W						
EXIST VERT SHANNON ROBERTS 26-5 - OWB - Desig	15,500.00	7,570.00	1,781.71	1,537.16	7.286	SF
SI VERT ALAUX 26-3 - OWB - Design #1	14,393.67	7,605.00	81.57	-140.84	0.367	Level 1, CC, ES, SF
SI VERT CRANDELL E UNIT 2 - OWB - Design #1	18,164.32	7,608.00	2,200.45	1,915.53	7.723	CC
SI VERT CRANDELL E UNIT 2 - OWB - Design #1	18,200.00	7,608.00	2,200.74	1,914.66	7.693	ES
SI VERT CRANDELL E UNIT 2 - OWB - Design #1	18,500.00	7,608.00	2,225.90	1,931.44	7.559	SF
SI VERT SEARS 22-26 - OWB - Design #1	15,736.55	7,605.00	95.39	-148.69	0.391	Level 1, CC, ES, SF
SI VERT SHANNON-ROBERTS 2 - OWB - Design #1	15,856.12	5,425.00	3,312.41	3,132.83	18.445	CC
SI VERT SHANNON-ROBERTS 2 - OWB - Design #1	15,900.00	5,425.00	3,312.70	3,132.12	18.344	ES
SI VERT SHANNON-ROBERTS 2 - OWB - Design #1	16,900.00	5,425.00	3,473.01	3,271.42	17.228	SF
SI VERT SHANNON-ROBERTS 3 - OWB - Design #1	14,538.51	5,450.00	2,443.17	2,314.48	18.984	CC
SI VERT SHANNON-ROBERTS 3 - OWB - Design #1	14,600.00	5,450.00	2,443.95	2,313.95	18.800	ES
SI VERT SHANNON-ROBERTS 3 - OWB - Design #1	15,700.00	5,450.00	2,705.21	2,546.68	17.064	SF
SI VERT SHANNON-ROBERTS 4 - OWB - Design #1	15,860.87	5,450.00	2,446.35	2,304.19	17.207	CC
SI VERT SHANNON-ROBERTS 4 - OWB - Design #1	15,900.00	5,450.00	2,446.67	2,303.63	17.105	ES
SI VERT SHANNON-ROBERTS 4 - OWB - Design #1	16,900.00	5,450.00	2,657.90	2,489.40	15.773	SF
SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Desi	14,533.77	5,400.00	3,309.86	3,147.81	20.425	CC
SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Desi	14,600.00	5,400.00	3,310.53	3,147.06	20.251	ES
SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Desi	15,700.00	5,400.00	3,509.32	3,323.11	18.847	SF

Offset Design SEC 22-T1N-R68W - ABND VERT COSSLETT B UNIT 1 - OWB - Design #1

Survey Program: 0-INC-ONLY

Offset Site Error: 0.00 usft

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	36.89	232.05	174.16	290.58				
100.00	100.00	84.00	84.00	0.13	0.67	36.89	232.05	174.16	290.14	289.34	0.80	361.997	
200.00	200.00	184.00	184.00	0.49	2.26	36.89	232.05	174.16	290.14	287.38	2.75	105.386	
300.00	300.00	284.00	284.00	0.85	4.01	36.89	232.05	174.16	290.14	285.28	4.86	59.737	
400.00	400.00	384.00	384.00	1.21	5.75	36.89	232.05	174.16	290.14	283.18	6.96	41.682	
500.00	500.00	484.00	484.00	1.57	7.50	36.89	232.05	174.16	290.14	281.07	9.06	32.008	
600.00	600.00	584.00	584.00	1.93	9.24	36.89	232.05	174.16	290.14	278.97	11.17	25.979	
700.00	700.00	684.00	684.00	2.29	10.99	36.89	232.05	174.16	290.14	276.87	13.27	21.861	
800.00	800.00	784.00	784.00	2.64	12.73	36.89	232.05	174.16	290.14	274.76	15.38	18.870	
900.00	900.00	884.00	884.00	3.00	14.48	36.89	232.05	174.16	290.14	272.66	17.48	16.599	
1,000.00	999.98	983.98	983.98	3.36	16.22	-20.43	232.05	174.16	288.50	268.92	19.58	14.735	
1,100.00	1,099.84	1,083.84	1,083.84	3.71	17.97	-20.84	232.05	174.16	283.60	261.93	21.68	13.083	
1,200.00	1,199.45	1,183.45	1,183.45	4.07	19.70	-21.54	232.05	174.16	275.47	251.70	23.77	11.588	
1,300.00	1,298.70	1,282.70	1,282.70	4.44	21.44	-22.60	232.05	174.16	264.17	238.30	25.86	10.214	
1,400.00	1,397.47	1,381.47	1,381.47	4.82	23.16	-24.09	232.05	174.16	249.78	221.82	27.95	8.936	
1,500.00	1,495.62	1,479.62	1,479.62	5.22	24.87	-26.16	232.05	174.16	232.44	202.40	30.04	7.739	
1,600.00	1,593.06	1,577.06	1,577.06	5.65	26.57	-29.02	232.05	174.16	212.39	180.27	32.12	6.612	
1,700.00	1,689.64	1,673.64	1,673.64	6.11	28.26	-33.02	232.05	174.16	190.00	155.79	34.21	5.554	
1,800.00	1,785.27	1,769.27	1,769.27	6.61	29.93	-38.75	232.05	174.16	165.93	129.61	36.32	4.568	
1,900.00	1,879.82	1,863.82	1,863.82	7.15	31.58	-47.16	232.05	174.16	141.43	102.95	38.49	3.675	
2,000.00	1,973.17	1,957.17	1,957.17	7.73	33.21	-59.67	232.05	174.16	119.03	78.27	40.76	2.920	
2,100.00	2,065.21	2,049.21	2,049.21	8.37	34.81	-77.49	232.05	174.16	103.59	60.44	43.15	2.401	
2,158.74	2,118.63	2,102.63	2,102.63	8.78	35.75	-90.00	232.05	174.16	100.67	56.14	44.53	2.261	CC, ES
2,200.00	2,155.84	2,139.84	2,139.84	9.07	36.40	-99.04	232.05	174.16	102.23	56.82	45.41	2.251	SF
2,300.00	2,244.94	2,228.94	2,228.94	9.82	37.95	-119.01	232.05	174.16	118.87	71.60	47.27	2.515	
2,400.00	2,332.39	2,316.39	2,316.39	10.64	39.48	-133.86	232.05	174.16	150.36	101.45	48.91	3.074	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,500.00	2,418.11	2,402.11	2,402.11	11.53	40.97	-143.97	232.05	174.16	191.75	141.19	50.56	3.792	
2,558.91	2,467.74	2,451.74	2,451.74	12.08	41.84	-148.32	232.05	174.16	219.38	167.83	51.55	4.256	
2,600.00	2,502.13	2,486.13	2,486.13	12.47	42.44	-151.05	232.05	174.16	239.59	187.34	52.25	4.586	
2,700.00	2,585.83	2,569.83	2,569.83	13.45	43.90	-156.16	232.05	174.16	290.16	236.18	53.97	5.376	
2,800.00	2,669.53	2,653.53	2,653.53	14.44	45.36	-159.80	232.05	174.16	342.01	286.27	55.74	6.136	
2,900.00	2,753.22	2,737.22	2,737.22	15.46	46.82	-162.51	232.05	174.16	394.64	337.11	57.53	6.859	
3,000.00	2,836.92	2,820.92	2,820.92	16.48	48.28	-164.59	232.05	174.16	447.77	388.43	59.34	7.546	
3,100.00	2,920.62	2,904.62	2,904.62	17.52	49.74	-166.24	232.05	174.16	501.25	440.08	61.17	8.195	
3,200.00	3,004.32	2,988.32	2,988.32	18.56	51.20	-167.57	232.05	174.16	554.96	491.97	63.00	8.809	
3,300.00	3,088.01	3,072.01	3,072.01	19.61	52.67	-168.67	232.05	174.16	608.86	544.02	64.84	9.390	
3,400.00	3,171.71	3,155.71	3,155.71	20.67	54.13	-169.60	232.05	174.16	662.90	596.21	66.69	9.940	
3,500.00	3,255.41	3,239.41	3,239.41	21.73	55.59	-170.38	232.05	174.16	717.03	648.49	68.54	10.461	
3,600.00	3,339.10	3,323.10	3,323.10	22.80	57.05	-171.06	232.05	174.16	771.25	700.85	70.40	10.955	
3,700.00	3,422.80	3,406.80	3,406.80	23.87	58.51	-171.65	232.05	174.16	825.54	753.28	72.27	11.424	
3,800.00	3,506.50	3,509.50	3,490.50	24.94	60.30	-172.17	232.05	174.16	879.88	805.42	74.46	11.816	
3,900.00	3,590.20	3,574.20	3,574.20	26.02	61.43	-172.62	232.05	174.16	934.27	858.27	76.00	12.293	
4,000.00	3,673.89	3,657.89	3,657.89	27.10	62.89	-173.03	232.05	174.16	988.69	910.82	77.87	12.696	
4,100.00	3,757.59	3,741.59	3,741.59	28.18	64.35	-173.39	232.05	174.16	1,043.15	963.40	79.75	13.080	
4,200.00	3,841.29	3,825.29	3,825.29	29.26	65.81	-173.72	232.05	174.16	1,097.63	1,016.00	81.63	13.447	
4,300.00	3,924.99	3,908.99	3,908.99	30.35	67.27	-174.02	232.05	174.16	1,152.13	1,068.63	83.51	13.797	
4,400.00	4,008.68	4,007.32	3,992.68	31.44	68.99	-174.29	232.05	174.16	1,206.66	1,121.01	85.64	14.089	
4,500.00	4,092.38	4,076.38	4,076.38	32.52	70.20	-174.54	232.05	174.16	1,261.20	1,173.93	87.27	14.451	
4,600.00	4,176.08	4,160.08	4,160.08	33.62	71.66	-174.76	232.05	174.16	1,315.76	1,226.60	89.16	14.758	
4,700.00	4,259.77	4,243.77	4,243.77	34.71	73.12	-174.97	232.05	174.16	1,370.33	1,279.28	91.04	15.051	
4,800.00	4,343.47	4,327.47	4,327.47	35.80	74.58	-175.16	232.05	174.16	1,424.91	1,331.98	92.93	15.333	
4,900.00	4,427.17	4,411.17	4,411.17	36.89	76.04	-175.34	232.05	174.16	1,479.50	1,384.68	94.82	15.603	
5,000.00	4,510.87	4,505.13	4,494.87	37.99	77.68	-175.51	232.05	174.16	1,534.10	1,437.21	96.89	15.833	
5,100.00	4,594.56	4,553.00	4,553.00	39.08	78.51	-175.62	232.05	174.16	1,588.92	1,490.90	98.02	16.211	
5,200.00	4,678.26	4,553.00	4,553.00	40.18	78.51	-175.62	232.05	174.16	1,646.96	1,549.13	97.84	16.834	
5,300.00	4,761.96	4,553.00	4,553.00	41.28	78.51	-175.62	232.05	174.16	1,708.89	1,611.42	97.46	17.534	
5,400.00	4,845.66	4,553.00	4,553.00	42.37	78.51	-175.62	232.05	174.16	1,774.29	1,677.35	96.94	18.303	
5,500.00	4,929.35	4,553.00	4,553.00	43.47	78.51	-175.62	232.05	174.16	1,842.80	1,746.49	96.31	19.133	
5,600.00	5,013.05	4,553.00	4,553.00	44.57	78.51	-175.62	232.05	174.16	1,914.09	1,818.48	95.61	20.020	
5,700.00	5,096.75	4,553.00	4,553.00	45.67	78.51	-175.62	232.05	174.16	1,987.85	1,893.00	94.85	20.958	
5,800.00	5,180.45	4,553.00	4,553.00	46.77	78.51	-175.62	232.05	174.16	2,063.82	1,969.76	94.06	21.942	
5,900.00	5,264.14	4,553.00	4,553.00	47.87	78.51	-175.62	232.05	174.16	2,141.77	2,048.52	93.25	22.967	
6,000.00	5,347.84	4,553.00	4,553.00	48.97	78.51	-175.62	232.05	174.16	2,221.48	2,129.04	92.45	24.030	
6,100.00	5,431.54	4,553.00	4,553.00	50.07	78.51	-175.62	232.05	174.16	2,302.78	2,211.14	91.64	25.127	
6,200.00	5,515.23	4,553.00	4,553.00	51.17	78.51	-175.62	232.05	174.16	2,385.50	2,294.64	90.86	26.255	
6,300.00	5,598.93	4,553.00	4,553.00	52.27	78.51	-175.62	232.05	174.16	2,469.50	2,379.41	90.09	27.411	
6,400.00	5,682.63	4,553.00	4,553.00	53.38	78.51	-175.62	232.05	174.16	2,554.65	2,465.30	89.35	28.592	
6,500.00	5,766.33	4,553.00	4,553.00	54.48	78.51	-175.62	232.05	174.16	2,640.84	2,552.21	88.63	29.795	
6,600.00	5,850.02	4,553.00	4,553.00	55.58	78.51	-175.62	232.05	174.16	2,727.98	2,640.03	87.94	31.019	
6,700.00	5,933.72	4,553.00	4,553.00	56.68	78.51	-175.62	232.05	174.16	2,815.97	2,728.68	87.28	32.262	
6,800.00	6,017.42	4,553.00	4,553.00	57.79	78.51	-175.62	232.05	174.16	2,904.74	2,818.08	86.65	33.521	
6,900.00	6,101.12	4,553.00	4,553.00	58.89	78.51	-175.62	232.05	174.16	2,994.21	2,908.16	86.05	34.794	
7,000.00	6,184.81	4,553.00	4,553.00	59.99	78.51	-175.62	232.05	174.16	3,084.33	2,998.85	85.48	36.081	
7,100.00	6,268.51	4,553.00	4,553.00	61.10	78.51	-175.62	232.05	174.16	3,175.05	3,090.10	84.94	37.378	
7,200.00	6,352.21	4,553.00	4,553.00	62.20	78.51	-175.62	232.05	174.16	3,266.30	3,181.87	84.43	38.686	
7,300.00	6,435.90	4,553.00	4,553.00	63.31	78.51	-175.62	232.05	174.16	3,358.06	3,274.11	83.95	40.003	
7,400.00	6,519.60	4,553.00	4,553.00	64.41	78.51	-175.62	232.05	174.16	3,450.27	3,366.78	83.49	41.327	
7,500.00	6,603.30	4,553.00	4,553.00	65.51	78.51	-175.62	232.05	174.16	3,542.91	3,459.85	83.06	42.657	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,600.00	6,687.00	4,553.00	4,553.00	66.62	78.51	-175.62	232.05	174.16	3,635.93	3,553.28	82.65	43.992	
7,700.00	6,770.69	4,553.00	4,553.00	67.72	78.51	-175.62	232.05	174.16	3,729.32	3,647.05	82.27	45.331	
7,800.00	6,854.39	4,553.00	4,553.00	68.83	78.51	-175.62	232.05	174.16	3,823.04	3,741.13	81.91	46.674	
7,900.00	6,938.09	4,553.00	4,553.00	69.93	78.51	-175.62	232.05	174.16	3,917.07	3,835.49	81.57	48.018	
7,933.18	6,965.86	4,553.00	4,553.00	70.30	78.51	-175.62	232.05	174.16	3,948.34	3,866.87	81.47	48.465	
7,950.00	6,980.00	4,553.00	4,553.00	70.49	78.51	177.88	232.05	174.16	3,964.16	3,882.75	81.41	48.692	
8,000.00	7,022.68	4,553.00	4,553.00	71.01	78.51	159.67	232.05	174.16	4,010.73	3,929.49	81.23	49.373	
8,050.00	7,066.06	4,553.00	4,553.00	71.51	78.51	143.10	232.05	174.16	4,056.33	3,975.30	81.03	50.060	
8,100.00	7,109.82	4,553.00	4,553.00	71.97	78.51	127.97	232.05	174.16	4,100.66	4,019.86	80.80	50.749	
8,150.00	7,153.63	4,553.00	4,553.00	72.38	78.51	114.23	232.05	174.16	4,143.43	4,062.87	80.55	51.437	
8,200.00	7,197.14	4,553.00	4,553.00	72.74	78.51	102.01	232.05	174.16	4,184.36	4,104.08	80.28	52.121	
8,250.00	7,240.04	4,553.00	4,553.00	73.05	78.51	91.38	232.05	174.16	4,223.20	4,143.21	79.99	52.798	
8,300.00	7,281.99	4,553.00	4,553.00	73.31	78.51	82.33	232.05	174.16	4,259.71	4,180.03	79.68	53.462	
8,350.00	7,322.67	4,553.00	4,553.00	73.52	78.51	74.75	232.05	174.16	4,293.69	4,214.34	79.35	54.110	
8,400.00	7,361.77	4,553.00	4,553.00	73.68	78.51	68.46	232.05	174.16	4,324.93	4,245.91	79.01	54.737	
8,450.00	7,399.01	4,553.00	4,553.00	73.78	78.51	63.28	232.05	174.16	4,353.25	4,274.59	78.67	55.338	
8,500.00	7,434.08	4,553.00	4,553.00	73.85	78.51	59.01	232.05	174.16	4,378.51	4,300.19	78.32	55.908	
8,550.00	7,466.74	4,553.00	4,553.00	73.87	78.51	55.52	232.05	174.16	4,400.56	4,322.59	77.97	56.440	
8,600.00	7,496.72	4,553.00	4,553.00	73.85	78.51	52.67	232.05	174.16	4,419.28	4,341.65	77.63	56.928	
8,650.00	7,523.80	4,553.00	4,553.00	73.79	78.51	50.37	232.05	174.16	4,434.58	4,357.28	77.30	57.367	
8,700.00	7,547.77	4,553.00	4,553.00	73.70	78.51	48.53	232.05	174.16	4,446.37	4,369.38	76.99	57.749	
8,750.00	7,568.45	4,553.00	4,553.00	73.58	78.51	47.10	232.05	174.16	4,454.60	4,377.89	76.71	58.069	
8,800.00	7,585.69	4,553.00	4,553.00	73.43	78.51	46.03	232.05	174.16	4,459.21	4,382.75	76.46	58.320	
8,850.00	7,599.35	4,553.00	4,553.00	73.26	78.51	45.29	232.05	174.16	4,460.19	4,383.95	76.24	58.499	
8,900.00	7,609.33	4,553.00	4,553.00	73.07	78.51	44.86	232.05	174.16	4,457.53	4,381.46	76.07	58.600	
8,950.00	7,615.55	4,553.00	4,553.00	72.87	78.51	44.73	232.05	174.16	4,451.25	4,375.31	75.93	58.620	
9,000.00	7,617.97	4,553.00	4,553.00	72.65	78.51	44.89	232.05	174.16	4,441.37	4,365.52	75.85	58.557	
9,006.60	7,618.00	4,553.00	4,553.00	72.62	78.51	44.94	232.05	174.16	4,439.80	4,363.96	75.84	58.541	
9,100.00	7,618.00	4,553.00	4,553.00	72.22	78.51	44.94	232.05	174.16	4,418.08	4,342.30	75.78	58.302	
9,200.00	7,618.00	4,553.00	4,553.00	71.80	78.51	44.94	232.05	174.16	4,396.90	4,321.06	75.84	57.979	
9,300.00	7,618.00	4,553.00	4,553.00	71.41	78.51	44.94	232.05	174.16	4,377.90	4,301.88	76.02	57.589	
9,400.00	7,618.00	4,553.00	4,553.00	71.04	78.51	44.94	232.05	174.16	4,361.12	4,284.79	76.33	57.137	
9,500.00	7,618.00	4,553.00	4,553.00	70.68	78.51	44.94	232.05	174.16	4,346.57	4,269.82	76.75	56.631	
9,600.00	7,618.00	4,553.00	4,553.00	70.35	78.51	44.94	232.05	174.16	4,334.28	4,256.99	77.29	56.079	
9,700.00	7,618.00	4,553.00	4,553.00	70.04	78.51	44.94	232.05	174.16	4,324.27	4,246.34	77.93	55.491	
9,800.00	7,618.00	4,553.00	4,553.00	69.75	78.51	44.94	232.05	174.16	4,316.55	4,237.89	78.66	54.874	
9,900.00	7,618.00	4,553.00	4,553.00	69.47	78.51	44.94	232.05	174.16	4,311.14	4,231.65	79.48	54.239	
10,000.00	7,618.00	4,553.00	4,553.00	69.22	78.51	44.94	232.05	174.16	4,308.04	4,227.66	80.39	53.592	
10,083.42	7,618.00	4,553.00	4,553.00	69.03	78.51	44.94	232.05	174.16	4,307.24	4,226.04	81.20	53.047	
10,100.00	7,618.00	4,553.00	4,553.00	68.99	78.51	44.94	232.05	174.16	4,307.27	4,225.91	81.36	52.943	
10,200.00	7,618.00	4,553.00	4,553.00	68.78	78.51	44.94	232.05	174.16	4,308.81	4,226.42	82.39	52.296	
10,300.00	7,618.00	4,553.00	4,553.00	68.59	78.51	44.94	232.05	174.16	4,312.68	4,229.19	83.48	51.658	
10,400.00	7,618.00	4,553.00	4,553.00	68.42	78.51	44.94	232.05	174.16	4,318.85	4,234.23	84.63	51.035	
10,500.00	7,618.00	4,553.00	4,553.00	68.28	78.51	44.94	232.05	174.16	4,327.33	4,241.53	85.81	50.430	
10,600.00	7,618.00	4,553.00	4,553.00	68.16	78.51	44.94	232.05	174.16	4,338.10	4,251.08	87.03	49.847	
10,700.00	7,618.00	4,553.00	4,553.00	68.06	78.51	44.94	232.05	174.16	4,351.14	4,262.87	88.28	49.290	
10,800.00	7,618.00	4,553.00	4,553.00	67.99	78.51	44.94	232.05	174.16	4,366.44	4,276.88	89.55	48.759	
10,900.00	7,618.00	4,553.00	4,553.00	67.95	78.51	44.94	232.05	174.16	4,383.96	4,293.11	90.85	48.257	
11,000.00	7,618.00	4,553.00	4,553.00	67.95	78.51	44.94	232.05	174.16	4,403.68	4,311.53	92.15	47.786	
11,100.00	7,618.00	4,553.00	4,553.00	67.97	78.51	44.94	232.05	174.16	4,425.58	4,332.10	93.47	47.347	
11,200.00	7,618.00	4,553.00	4,553.00	68.04	78.51	44.94	232.05	174.16	4,449.61	4,354.82	94.80	46.939	
11,300.00	7,618.00	4,553.00	4,553.00	68.15	78.51	44.94	232.05	174.16	4,475.75	4,379.63	96.12	46.564	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
11,400.00	7,618.00	4,553.00	4,553.00	68.30	78.51	44.94	232.05	174.16	4,503.96	4,406.52	97.44	46.222	
11,500.00	7,618.00	4,553.00	4,553.00	68.50	78.51	44.94	232.05	174.16	4,534.20	4,435.44	98.76	45.913	
11,600.00	7,618.00	4,553.00	4,553.00	68.75	78.51	44.94	232.05	174.16	4,566.43	4,466.37	100.06	45.635	
11,700.00	7,618.00	4,553.00	4,553.00	69.06	78.51	44.94	232.05	174.16	4,600.61	4,499.25	101.36	45.390	
11,800.00	7,618.00	4,553.00	4,553.00	69.44	78.51	44.94	232.05	174.16	4,636.69	4,534.06	102.64	45.176	
11,900.00	7,618.00	4,553.00	4,553.00	69.88	78.51	44.94	232.05	174.16	4,674.64	4,570.74	103.90	44.992	
12,000.00	7,618.00	4,553.00	4,553.00	70.39	78.51	44.94	232.05	174.16	4,714.40	4,609.26	105.14	44.839	
12,100.00	7,618.00	4,553.00	4,553.00	70.97	78.51	44.94	232.05	174.16	4,755.93	4,649.57	106.36	44.714	
12,200.00	7,618.00	4,553.00	4,553.00	71.63	78.51	44.94	232.05	174.16	4,799.19	4,691.63	107.56	44.618	
12,300.00	7,618.00	4,553.00	4,553.00	72.35	78.51	44.94	232.05	174.16	4,844.12	4,735.39	108.73	44.550	
12,400.00	7,618.00	4,553.00	4,553.00	73.15	78.51	44.94	232.05	174.16	4,890.69	4,780.81	109.88	44.508	
12,500.00	7,618.00	4,553.00	4,553.00	74.01	78.51	44.94	232.05	174.16	4,938.84	4,827.84	111.01	44.492	
12,600.00	7,618.00	4,553.00	4,553.00	74.93	78.51	44.94	232.05	174.16	4,988.53	4,876.43	112.10	44.501	
12,700.00	7,618.00	4,553.00	4,553.00	75.91	78.51	44.94	232.05	174.16	5,039.72	4,926.55	113.17	44.533	
12,800.00	7,618.00	4,553.00	4,553.00	76.95	78.51	44.94	232.05	174.16	5,092.36	4,978.15	114.21	44.589	
12,900.00	7,618.00	4,553.00	4,553.00	78.04	78.51	44.94	232.05	174.16	5,146.40	5,031.18	115.22	44.667	
13,000.00	7,618.00	4,553.00	4,553.00	79.16	78.51	44.94	232.05	174.16	5,201.80	5,085.60	116.20	44.766	
13,100.00	7,618.00	4,553.00	4,553.00	80.33	78.51	44.94	232.05	174.16	5,258.52	5,141.37	117.15	44.886	
13,200.00	7,618.00	4,553.00	4,553.00	81.54	78.51	44.94	232.05	174.16	5,316.52	5,198.44	118.08	45.025	
13,300.00	7,618.00	4,553.00	4,553.00	82.78	78.51	44.94	232.05	174.16	5,375.75	5,256.77	118.98	45.183	
13,400.00	7,618.00	4,553.00	4,553.00	84.05	78.51	44.94	232.05	174.16	5,436.18	5,316.33	119.85	45.359	
13,500.00	7,618.00	4,553.00	4,553.00	85.35	78.51	44.94	232.05	174.16	5,497.76	5,377.07	120.69	45.553	
13,600.00	7,618.00	4,553.00	4,553.00	86.67	78.51	44.94	232.05	174.16	5,560.45	5,438.95	121.51	45.763	
13,700.00	7,618.00	4,553.00	4,553.00	88.02	78.51	44.94	232.05	174.16	5,624.23	5,501.93	122.29	45.989	
13,800.00	7,618.00	4,553.00	4,553.00	89.38	78.51	44.94	232.05	174.16	5,689.05	5,565.99	123.06	46.231	
13,900.00	7,618.00	4,553.00	4,553.00	90.77	78.51	44.94	232.05	174.16	5,754.87	5,631.08	123.80	46.487	
14,000.00	7,618.00	4,553.00	4,553.00	92.17	78.51	44.94	232.05	174.16	5,821.67	5,697.17	124.51	46.757	
14,100.00	7,618.00	4,553.00	4,553.00	93.59	78.51	44.94	232.05	174.16	5,889.42	5,764.22	125.20	47.041	
14,200.00	7,618.00	4,553.00	4,553.00	95.02	78.51	44.94	232.05	174.16	5,958.06	5,832.20	125.86	47.337	
14,300.00	7,618.00	4,553.00	4,553.00	96.47	78.51	44.94	232.05	174.16	6,027.59	5,901.08	126.51	47.646	
14,400.00	7,618.00	4,553.00	4,553.00	97.93	78.51	44.94	232.05	174.16	6,097.96	5,970.84	127.13	47.967	
14,500.00	7,618.00	4,553.00	4,553.00	99.41	78.51	44.94	232.05	174.16	6,169.16	6,041.43	127.73	48.299	
14,600.00	7,618.00	4,553.00	4,553.00	100.89	78.51	44.94	232.05	174.16	6,241.14	6,112.83	128.31	48.642	
14,700.00	7,618.00	4,553.00	4,553.00	102.38	78.51	44.94	232.05	174.16	6,313.88	6,185.01	128.87	48.995	
14,800.00	7,618.00	4,553.00	4,553.00	103.89	78.51	44.94	232.05	174.16	6,387.36	6,257.96	129.41	49.358	
14,900.00	7,618.00	4,553.00	4,553.00	105.40	78.51	44.94	232.05	174.16	6,461.56	6,331.63	129.93	49.731	
15,000.00	7,618.00	4,553.00	4,553.00	106.92	78.51	44.94	232.05	174.16	6,536.44	6,406.01	130.43	50.113	
15,100.00	7,618.00	4,553.00	4,553.00	108.45	78.51	44.94	232.05	174.16	6,611.99	6,481.07	130.92	50.504	
15,200.00	7,618.00	4,553.00	4,553.00	109.99	78.51	44.94	232.05	174.16	6,688.18	6,556.79	131.39	50.904	
15,300.00	7,618.00	4,553.00	4,553.00	111.54	78.51	44.94	232.05	174.16	6,764.98	6,633.14	131.84	51.311	
15,400.00	7,618.00	4,553.00	4,553.00	113.09	78.51	44.94	232.05	174.16	6,842.39	6,710.11	132.28	51.726	
15,500.00	7,618.00	4,553.00	4,553.00	114.65	78.51	44.94	232.05	174.16	6,920.38	6,787.68	132.70	52.149	
15,600.00	7,618.00	4,553.00	4,553.00	116.21	78.51	44.94	232.05	174.16	6,998.93	6,865.81	133.11	52.579	
15,700.00	7,618.00	4,553.00	4,553.00	117.78	78.51	44.94	232.05	174.16	7,078.01	6,944.51	133.51	53.016	
15,800.00	7,618.00	4,553.00	4,553.00	119.36	78.51	44.94	232.05	174.16	7,157.63	7,023.74	133.89	53.459	
15,900.00	7,618.00	4,553.00	4,553.00	120.94	78.51	44.94	232.05	174.16	7,237.74	7,103.48	134.26	53.909	
16,000.00	7,618.00	4,553.00	4,553.00	122.53	78.51	44.94	232.05	174.16	7,318.35	7,183.73	134.61	54.365	
16,100.00	7,618.00	4,553.00	4,553.00	124.12	78.51	44.94	232.05	174.16	7,399.43	7,264.47	134.96	54.827	
16,200.00	7,618.00	4,553.00	4,553.00	125.72	78.51	44.94	232.05	174.16	7,480.97	7,345.67	135.29	55.294	
16,300.00	7,618.00	4,553.00	4,553.00	127.32	78.51	44.94	232.05	174.16	7,562.95	7,427.33	135.62	55.767	
16,400.00	7,618.00	4,553.00	4,553.00	128.93	78.51	44.94	232.05	174.16	7,645.36	7,509.43	135.93	56.245	
16,500.00	7,618.00	4,553.00	4,553.00	130.54	78.51	44.94	232.05	174.16	7,728.18	7,591.95	136.23	56.728	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,600.00	7,618.00	4,553.00	4,553.00	132.15	78.51	44.94	232.05	174.16	7,811.41	7,674.89	136.52	57.216	
16,700.00	7,618.00	4,553.00	4,553.00	133.77	78.51	44.94	232.05	174.16	7,895.03	7,758.22	136.81	57.709	
16,800.00	7,618.00	4,553.00	4,553.00	135.39	78.51	44.94	232.05	174.16	7,979.02	7,841.94	137.08	58.206	
16,900.00	7,618.00	4,553.00	4,553.00	137.01	78.51	44.94	232.05	174.16	8,063.38	7,926.03	137.35	58.707	
17,000.00	7,618.00	4,553.00	4,553.00	138.64	78.51	44.94	232.05	174.16	8,148.09	8,010.48	137.61	59.213	
17,100.00	7,618.00	4,553.00	4,553.00	140.27	78.51	44.94	232.05	174.16	8,233.15	8,095.29	137.86	59.722	
17,200.00	7,618.00	4,553.00	4,553.00	141.91	78.51	44.94	232.05	174.16	8,318.54	8,180.43	138.10	60.235	
17,300.00	7,618.00	4,553.00	4,553.00	143.55	78.51	44.94	232.05	174.16	8,404.25	8,265.91	138.34	60.752	
17,400.00	7,618.00	4,553.00	4,553.00	145.19	78.51	44.94	232.05	174.16	8,490.27	8,351.70	138.57	61.273	
17,500.00	7,618.00	4,553.00	4,553.00	146.83	78.51	44.94	232.05	174.16	8,576.59	8,437.81	138.79	61.797	
17,600.00	7,618.00	4,553.00	4,553.00	148.48	78.51	44.94	232.05	174.16	8,663.22	8,524.21	139.00	62.324	
17,700.00	7,618.00	4,553.00	4,553.00	150.13	78.51	44.94	232.05	174.16	8,750.12	8,610.91	139.21	62.854	
17,800.00	7,618.00	4,553.00	4,553.00	151.78	78.51	44.94	232.05	174.16	8,837.30	8,697.89	139.42	63.387	
17,900.00	7,618.00	4,553.00	4,553.00	153.43	78.51	44.94	232.05	174.16	8,924.75	8,785.14	139.62	63.924	
18,000.00	7,618.00	4,553.00	4,553.00	155.09	78.51	44.94	232.05	174.16	9,012.47	8,872.66	139.81	64.463	
18,100.00	7,618.00	4,553.00	4,553.00	156.75	78.51	44.94	232.05	174.16	9,100.43	8,960.44	140.00	65.005	
18,200.00	7,618.00	4,553.00	4,553.00	158.41	78.51	44.94	232.05	174.16	9,188.64	9,048.47	140.18	65.549	
18,300.00	7,618.00	4,553.00	4,553.00	160.07	78.51	44.94	232.05	174.16	9,277.10	9,136.74	140.36	66.096	
18,400.00	7,618.00	4,553.00	4,553.00	161.74	78.51	44.94	232.05	174.16	9,365.78	9,225.25	140.53	66.646	
18,500.00	7,618.00	4,553.00	4,553.00	163.41	78.51	44.94	232.05	174.16	9,454.69	9,313.99	140.70	67.197	
18,600.00	7,618.00	4,553.00	4,553.00	165.08	78.51	44.94	232.05	174.16	9,543.82	9,402.95	140.87	67.751	
18,700.00	7,618.00	4,553.00	4,553.00	166.75	78.51	44.94	232.05	174.16	9,633.16	9,492.13	141.03	68.308	
18,711.30	7,618.00	4,553.00	4,553.00	166.94	78.51	44.94	232.05	174.16	9,643.27	9,502.23	141.04	68.371	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-6.46	257.19	-29.12	259.27				
100.00	100.00	85.00	85.00	0.13	0.66	-6.46	257.19	-29.12	258.83	258.04	0.79	325.738	
200.00	200.00	185.00	185.00	0.49	2.26	-6.46	257.19	-29.12	258.83	256.08	2.75	94.014	
300.00	300.00	285.00	285.00	0.85	4.01	-6.46	257.19	-29.12	258.83	253.97	4.86	53.291	
400.00	400.00	385.00	385.00	1.21	5.75	-6.46	257.19	-29.12	258.83	251.87	6.96	37.185	
500.00	500.00	485.00	485.00	1.57	7.50	-6.46	257.19	-29.12	258.83	249.77	9.06	28.554	
600.00	600.00	585.00	585.00	1.93	9.24	-6.46	257.19	-29.12	258.83	247.66	11.17	23.176	
700.00	700.00	685.00	685.00	2.29	10.99	-6.46	257.19	-29.12	258.83	245.56	13.27	19.502	
800.00	800.00	785.00	785.00	2.64	12.73	-6.46	257.19	-29.12	258.83	243.46	15.38	16.834	
900.00	900.00	885.00	885.00	3.00	14.48	-6.46	257.19	-29.12	258.83	241.35	17.48	14.808	
1,000.00	999.98	984.98	984.98	3.36	16.22	-64.01	257.19	-29.12	258.06	238.48	19.58	13.180	
1,100.00	1,099.84	1,084.84	1,084.84	3.71	17.97	-65.10	257.19	-29.12	255.81	234.13	21.68	11.801	
1,200.00	1,199.45	1,184.45	1,184.45	4.07	19.70	-66.96	257.19	-29.12	252.26	228.48	23.77	10.610	
1,300.00	1,298.70	1,283.70	1,283.70	4.44	21.44	-69.62	257.19	-29.12	247.72	221.84	25.87	9.574	
1,400.00	1,397.47	1,382.47	1,382.47	4.82	23.16	-73.14	257.19	-29.12	242.67	214.69	27.98	8.673	
1,500.00	1,495.62	1,480.62	1,480.62	5.22	24.87	-77.57	257.19	-29.12	237.76	207.66	30.10	7.900	
1,600.00	1,593.06	1,578.06	1,578.06	5.65	26.57	-82.90	257.19	-29.12	233.84	201.62	32.23	7.256	
1,700.00	1,689.64	1,674.64	1,674.64	6.11	28.26	-89.07	257.19	-29.12	231.97	197.60	34.37	6.749	
1,714.05	1,703.14	1,688.14	1,688.14	6.18	28.49	-90.00	257.19	-29.12	231.94	197.26	34.67	6.689	CC
1,800.00	1,785.27	1,770.27	1,770.27	6.61	29.93	-95.93	257.19	-29.12	233.32	196.79	36.53	6.388	ES
1,900.00	1,879.82	1,864.82	1,864.82	7.15	31.58	-103.20	257.19	-29.12	239.05	200.37	38.68	6.180	
2,000.00	1,973.17	1,958.17	1,958.17	7.73	33.21	-110.54	257.19	-29.12	250.16	209.35	40.81	6.129	SF
2,100.00	2,065.21	2,050.21	2,050.21	8.37	34.81	-117.61	257.19	-29.12	267.26	224.36	42.91	6.229	
2,200.00	2,155.84	2,140.84	2,140.84	9.07	36.40	-124.15	257.19	-29.12	290.58	245.63	44.95	6.465	
2,300.00	2,244.94	2,229.94	2,229.94	9.82	37.95	-130.00	257.19	-29.12	319.99	273.05	46.94	6.818	
2,400.00	2,332.39	2,317.39	2,317.39	10.64	39.48	-135.12	257.19	-29.12	355.13	306.26	48.87	7.267	
2,500.00	2,418.11	2,403.11	2,403.11	11.53	40.97	-139.52	257.19	-29.12	395.56	344.81	50.75	7.794	
2,558.91	2,467.74	2,452.74	2,452.74	12.08	41.84	-141.80	257.19	-29.12	421.67	369.84	51.84	8.134	
2,600.00	2,502.13	2,487.13	2,487.13	12.47	42.44	-143.51	257.19	-29.12	440.63	388.04	52.59	8.378	
2,700.00	2,585.83	2,570.83	2,570.83	13.45	43.90	-147.16	257.19	-29.12	488.01	433.60	54.41	8.969	
2,800.00	2,669.53	2,654.53	2,654.53	14.44	45.36	-150.21	257.19	-29.12	536.79	480.56	56.23	9.546	
2,900.00	2,753.22	2,738.22	2,738.22	15.46	46.82	-152.78	257.19	-29.12	586.62	528.56	58.05	10.105	
3,000.00	2,836.92	2,821.92	2,821.92	16.48	48.28	-154.97	257.19	-29.12	637.25	577.37	59.88	10.643	
3,100.00	2,920.62	2,905.62	2,905.62	17.52	49.74	-156.85	257.19	-29.12	688.51	626.80	61.70	11.158	
3,200.00	3,004.32	2,989.32	2,989.32	18.56	51.20	-158.49	257.19	-29.12	740.26	676.73	63.54	11.651	
3,300.00	3,088.01	3,073.01	3,073.01	19.61	52.67	-159.91	257.19	-29.12	792.42	727.05	65.37	12.122	
3,400.00	3,171.71	3,156.71	3,156.71	20.67	54.13	-161.17	257.19	-29.12	844.90	777.69	67.21	12.571	
3,500.00	3,255.41	3,240.41	3,240.41	21.73	55.59	-162.28	257.19	-29.12	897.65	828.59	69.06	12.999	
3,600.00	3,339.10	3,324.10	3,324.10	22.80	57.05	-163.27	257.19	-29.12	950.62	879.71	70.90	13.407	
3,700.00	3,422.80	3,407.80	3,407.80	23.87	58.51	-164.16	257.19	-29.12	1,003.78	931.02	72.76	13.797	
3,800.00	3,506.50	3,508.50	3,491.50	24.94	60.27	-164.96	257.19	-29.12	1,057.10	982.19	74.91	14.112	
3,900.00	3,590.20	3,575.20	3,575.20	26.02	61.43	-165.69	257.19	-29.12	1,110.55	1,034.08	76.47	14.523	
4,000.00	3,673.89	3,658.89	3,658.89	27.10	62.89	-166.35	257.19	-29.12	1,164.13	1,085.80	78.33	14.862	
4,100.00	3,757.59	3,742.59	3,742.59	28.18	64.35	-166.95	257.19	-29.12	1,217.80	1,137.61	80.19	15.186	
4,200.00	3,841.29	3,826.29	3,826.29	29.26	65.81	-167.50	257.19	-29.12	1,271.57	1,189.51	82.06	15.496	
4,300.00	3,924.99	3,909.99	3,909.99	30.35	67.27	-168.01	257.19	-29.12	1,325.41	1,241.48	83.93	15.792	
4,400.00	4,008.68	4,006.32	3,993.68	31.44	68.95	-168.48	257.19	-29.12	1,379.32	1,293.31	86.02	16.035	
4,500.00	4,092.38	4,077.38	4,077.38	32.52	70.20	-168.91	257.19	-29.12	1,433.30	1,345.63	87.67	16.349	
4,600.00	4,176.08	4,161.08	4,161.08	33.62	71.66	-169.32	257.19	-29.12	1,487.33	1,397.78	89.55	16.610	
4,700.00	4,259.77	4,244.77	4,244.77	34.71	73.12	-169.69	257.19	-29.12	1,541.41	1,449.98	91.42	16.860	
4,800.00	4,343.47	4,328.47	4,328.47	35.80	74.58	-170.04	257.19	-29.12	1,595.53	1,502.23	93.30	17.101	
4,900.00	4,427.17	4,412.17	4,412.17	36.89	76.04	-170.37	257.19	-29.12	1,649.69	1,554.51	95.18	17.332	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,510.87	4,504.13	4,495.87	37.99	77.64	-170.68	257.19	-29.12	1,703.89	1,606.68	97.21	17.528	
5,100.00	4,594.56	4,579.56	4,579.56	39.08	78.96	-170.97	257.19	-29.12	1,758.12	1,659.17	98.95	17.768	
5,200.00	4,678.26	4,663.26	4,663.26	40.18	80.42	-171.24	257.19	-29.12	1,812.38	1,711.55	100.83	17.974	
5,300.00	4,761.96	4,746.96	4,746.96	41.28	81.88	-171.49	257.19	-29.12	1,866.67	1,763.95	102.72	18.173	
5,400.00	4,845.66	4,830.66	4,830.66	42.37	83.34	-171.73	257.19	-29.12	1,920.98	1,816.38	104.61	18.364	
5,500.00	4,929.35	4,914.35	4,914.35	43.47	84.80	-171.96	257.19	-29.12	1,975.32	1,868.82	106.49	18.549	
5,600.00	5,013.05	5,001.95	4,998.05	44.57	86.33	-172.17	257.19	-29.12	2,029.67	1,921.22	108.45	18.715	
5,700.00	5,096.75	5,081.75	5,081.75	45.67	87.72	-172.38	257.19	-29.12	2,084.05	1,973.77	110.27	18.899	
5,800.00	5,180.45	5,165.45	5,165.45	46.77	89.19	-172.57	257.19	-29.12	2,138.44	2,026.28	112.17	19.065	
5,900.00	5,264.14	5,249.14	5,249.14	47.87	90.65	-172.76	257.19	-29.12	2,192.85	2,078.79	114.06	19.226	
6,000.00	5,347.84	5,332.84	5,332.84	48.97	92.11	-172.93	257.19	-29.12	2,247.28	2,131.32	115.95	19.381	
6,100.00	5,431.54	5,416.54	5,416.54	50.07	93.57	-173.10	257.19	-29.12	2,301.72	2,183.87	117.85	19.531	
6,200.00	5,515.23	5,500.23	5,500.23	51.17	95.03	-173.26	257.19	-29.12	2,356.17	2,236.42	119.74	19.677	
6,300.00	5,598.93	5,583.93	5,583.93	52.27	96.49	-173.41	257.19	-29.12	2,410.63	2,288.99	121.64	19.818	
6,400.00	5,682.63	5,667.63	5,667.63	53.38	97.95	-173.56	257.19	-29.12	2,465.11	2,341.57	123.54	19.954	
6,500.00	5,766.33	5,751.33	5,751.33	54.48	99.41	-173.70	257.19	-29.12	2,519.60	2,394.16	125.43	20.087	
6,600.00	5,850.02	5,835.02	5,835.02	55.58	100.87	-173.83	257.19	-29.12	2,574.09	2,446.76	127.33	20.215	
6,700.00	5,933.72	5,918.72	5,918.72	56.68	102.33	-173.96	257.19	-29.12	2,628.60	2,499.37	129.23	20.340	
6,800.00	6,017.42	6,002.42	6,002.42	57.79	103.79	-174.08	257.19	-29.12	2,683.11	2,551.98	131.13	20.461	
6,900.00	6,101.12	6,086.12	6,086.12	58.89	105.25	-174.20	257.19	-29.12	2,737.64	2,604.60	133.03	20.578	
7,000.00	6,184.81	6,169.81	6,169.81	59.99	106.71	-174.31	257.19	-29.12	2,792.17	2,657.23	134.94	20.692	
7,100.00	6,268.51	6,253.51	6,253.51	61.10	108.18	-174.42	257.19	-29.12	2,846.71	2,709.87	136.84	20.803	
7,200.00	6,352.21	6,337.21	6,337.21	62.20	109.64	-174.53	257.19	-29.12	2,901.25	2,762.51	138.74	20.911	
7,300.00	6,435.90	6,420.90	6,420.90	63.31	111.10	-174.63	257.19	-29.12	2,955.81	2,815.16	140.65	21.016	
7,400.00	6,519.60	6,504.60	6,504.60	64.41	112.56	-174.72	257.19	-29.12	3,010.37	2,867.82	142.55	21.118	
7,500.00	6,603.30	6,588.30	6,588.30	65.51	114.02	-174.82	257.19	-29.12	3,064.93	2,920.48	144.45	21.217	
7,600.00	6,687.00	6,672.00	6,672.00	66.62	115.48	-174.91	257.19	-29.12	3,119.50	2,973.14	146.36	21.314	
7,700.00	6,770.69	6,755.69	6,755.69	67.72	116.94	-175.00	257.19	-29.12	3,174.08	3,025.81	148.27	21.408	
7,800.00	6,854.39	6,839.39	6,839.39	68.83	118.40	-175.08	257.19	-29.12	3,228.66	3,078.48	150.17	21.500	
7,900.00	6,938.09	6,923.09	6,923.09	69.93	119.86	-175.16	257.19	-29.12	3,283.24	3,131.16	152.08	21.589	
7,933.18	6,965.86	6,950.86	6,950.86	70.30	120.35	-175.19	257.19	-29.12	3,301.36	3,148.64	152.71	21.618	
7,950.00	6,980.00	6,965.00	6,965.00	70.49	120.59	-178.50	257.19	-29.12	3,310.45	3,157.42	153.03	21.632	
8,000.00	7,022.68	7,007.68	7,007.68	71.01	121.34	171.22	257.19	-29.12	3,336.44	3,182.44	154.00	21.665	
8,050.00	7,066.06	7,051.06	7,051.06	71.51	122.10	160.45	257.19	-29.12	3,360.69	3,205.72	154.97	21.686	
8,100.00	7,109.82	7,105.18	7,094.82	71.97	123.04	149.47	257.19	-29.12	3,383.05	3,226.92	156.12	21.669	
8,150.00	7,153.63	7,138.63	7,138.63	72.38	123.62	138.77	257.19	-29.12	3,403.37	3,246.46	156.90	21.691	
8,200.00	7,197.14	7,182.14	7,182.14	72.74	124.38	128.80	257.19	-29.12	3,421.54	3,263.69	157.85	21.676	
8,250.00	7,240.04	7,225.04	7,225.04	73.05	125.13	119.93	257.19	-29.12	3,437.47	3,278.70	158.78	21.650	
8,300.00	7,281.99	7,266.99	7,266.99	73.31	125.86	112.31	257.19	-29.12	3,451.12	3,291.45	159.67	21.614	
8,350.00	7,322.67	7,307.67	7,307.67	73.52	126.57	105.96	257.19	-29.12	3,462.42	3,301.90	160.53	21.569	
8,400.00	7,361.77	7,346.77	7,346.77	73.68	127.26	100.78	257.19	-29.12	3,471.39	3,310.04	161.35	21.515	
8,450.00	7,399.01	7,384.01	7,384.01	73.78	127.91	96.63	257.19	-29.12	3,478.02	3,315.89	162.13	21.452	
8,500.00	7,434.08	7,419.08	7,419.08	73.85	128.52	93.37	257.19	-29.12	3,482.34	3,319.48	162.86	21.383	
8,550.00	7,466.74	7,451.74	7,451.74	73.87	129.09	90.87	257.19	-29.12	3,484.39	3,320.86	163.54	21.306	
8,600.00	7,496.72	7,481.72	7,481.72	73.85	129.61	89.02	257.19	-29.12	3,484.24	3,320.08	164.17	21.224	
8,650.00	7,523.80	7,508.80	7,508.80	73.79	130.08	87.73	257.19	-29.12	3,481.96	3,317.22	164.74	21.136	
8,700.00	7,547.77	7,532.77	7,532.77	73.70	130.50	86.93	257.19	-29.12	3,477.64	3,312.37	165.26	21.043	
8,750.00	7,568.45	7,553.45	7,553.45	73.58	130.86	86.56	257.19	-29.12	3,471.35	3,305.62	165.73	20.946	
8,800.00	7,585.69	7,570.69	7,570.69	73.43	131.16	86.57	257.19	-29.12	3,463.20	3,297.07	166.14	20.846	
8,850.00	7,599.35	7,584.35	7,584.35	73.26	131.40	86.93	257.19	-29.12	3,453.30	3,286.81	166.49	20.742	
8,900.00	7,609.33	7,605.67	7,594.33	73.07	131.78	87.60	257.19	-29.12	3,441.74	3,274.76	166.98	20.611	
8,950.00	7,615.55	7,600.55	7,600.55	72.87	131.69	88.57	257.19	-29.12	3,428.64	3,261.61	167.02	20.528	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	7,602.97	7,602.97	72.65	131.73	89.81	257.19	-29.12	3,414.08	3,246.87	167.21	20.418	
9,006.60	7,618.00	7,603.00	7,603.00	72.62	131.73	90.00	257.19	-29.12	3,412.06	3,244.83	167.23	20.403	
9,100.00	7,618.00	7,603.00	7,603.00	72.22	131.73	90.00	257.19	-29.12	3,384.42	3,216.89	167.53	20.202	
9,200.00	7,618.00	7,603.00	7,603.00	71.80	131.73	90.00	257.19	-29.12	3,357.45	3,189.55	167.90	19.997	
9,300.00	7,618.00	7,603.00	7,603.00	71.41	131.73	90.00	257.19	-29.12	3,333.27	3,164.95	168.31	19.804	
9,400.00	7,618.00	7,603.00	7,603.00	71.04	131.73	90.00	257.19	-29.12	3,311.93	3,143.15	168.78	19.623	
9,500.00	7,618.00	7,603.00	7,603.00	70.68	131.73	90.00	257.19	-29.12	3,293.49	3,124.20	169.29	19.455	
9,600.00	7,618.00	7,603.00	7,603.00	70.35	131.73	90.00	257.19	-29.12	3,278.00	3,108.16	169.84	19.300	
9,700.00	7,618.00	7,603.00	7,603.00	70.04	131.73	90.00	257.19	-29.12	3,265.50	3,095.07	170.44	19.160	
9,800.00	7,618.00	7,603.00	7,603.00	69.75	131.73	90.00	257.19	-29.12	3,256.03	3,084.96	171.06	19.034	
9,900.00	7,618.00	7,603.00	7,603.00	69.47	131.73	90.00	257.19	-29.12	3,249.60	3,077.88	171.72	18.924	
10,000.00	7,618.00	7,603.00	7,603.00	69.22	131.73	90.00	257.19	-29.12	3,246.25	3,073.84	172.41	18.829	
10,058.97	7,618.00	7,603.00	7,603.00	69.08	131.73	90.00	257.19	-29.12	3,245.71	3,072.88	172.83	18.780	
10,100.00	7,618.00	7,603.00	7,603.00	68.99	131.73	90.00	257.19	-29.12	3,245.97	3,072.86	173.11	18.751	
10,200.00	7,618.00	7,603.00	7,603.00	68.78	131.73	90.00	257.19	-29.12	3,248.77	3,074.94	173.83	18.689	
10,300.00	7,618.00	7,603.00	7,603.00	68.59	131.73	90.00	257.19	-29.12	3,254.65	3,080.08	174.56	18.644	
10,400.00	7,618.00	7,603.00	7,603.00	68.42	131.73	90.00	257.19	-29.12	3,263.58	3,088.28	175.30	18.617	
10,500.00	7,618.00	7,603.00	7,603.00	68.28	131.73	90.00	257.19	-29.12	3,275.54	3,099.49	176.04	18.606	
10,600.00	7,618.00	7,603.00	7,603.00	68.16	131.73	90.00	257.19	-29.12	3,290.49	3,113.71	176.78	18.613	
10,700.00	7,618.00	7,603.00	7,603.00	68.06	131.73	90.00	257.19	-29.12	3,308.41	3,130.90	177.51	18.638	
10,800.00	7,618.00	7,603.00	7,603.00	67.99	131.73	90.00	257.19	-29.12	3,329.23	3,151.00	178.23	18.679	
10,900.00	7,618.00	7,603.00	7,603.00	67.95	131.73	90.00	257.19	-29.12	3,352.90	3,173.97	178.94	18.738	
11,000.00	7,618.00	7,603.00	7,603.00	67.95	131.73	90.00	257.19	-29.12	3,379.38	3,199.75	179.63	18.813	
11,100.00	7,618.00	7,603.00	7,603.00	67.97	131.73	90.00	257.19	-29.12	3,408.57	3,228.28	180.30	18.905	
11,200.00	7,618.00	7,603.00	7,603.00	68.04	131.73	90.00	257.19	-29.12	3,440.43	3,259.48	180.95	19.013	
11,300.00	7,618.00	7,603.00	7,603.00	68.15	131.73	90.00	257.19	-29.12	3,474.88	3,293.30	181.58	19.137	
11,400.00	7,618.00	7,603.00	7,603.00	68.30	131.73	90.00	257.19	-29.12	3,511.84	3,329.66	182.18	19.277	
11,500.00	7,618.00	7,603.00	7,603.00	68.50	131.73	90.00	257.19	-29.12	3,551.23	3,368.47	182.76	19.431	
11,600.00	7,618.00	7,603.00	7,603.00	68.75	131.73	90.00	257.19	-29.12	3,592.97	3,409.66	183.31	19.600	
11,700.00	7,618.00	7,603.00	7,603.00	69.06	131.73	90.00	257.19	-29.12	3,636.98	3,453.14	183.84	19.784	
11,800.00	7,618.00	7,603.00	7,603.00	69.44	131.73	90.00	257.19	-29.12	3,683.18	3,498.84	184.34	19.980	
11,900.00	7,618.00	7,603.00	7,603.00	69.88	131.73	90.00	257.19	-29.12	3,731.49	3,546.68	184.81	20.190	
12,000.00	7,618.00	7,603.00	7,603.00	70.39	131.73	90.00	257.19	-29.12	3,781.83	3,596.56	185.26	20.413	
12,100.00	7,618.00	7,603.00	7,603.00	70.97	131.73	90.00	257.19	-29.12	3,834.12	3,648.43	185.69	20.648	
12,200.00	7,618.00	7,603.00	7,603.00	71.63	131.73	90.00	257.19	-29.12	3,888.27	3,702.18	186.09	20.895	
12,300.00	7,618.00	7,603.00	7,603.00	72.35	131.73	90.00	257.19	-29.12	3,944.22	3,757.75	186.47	21.152	
12,400.00	7,618.00	7,603.00	7,603.00	73.15	131.73	90.00	257.19	-29.12	4,001.88	3,815.06	186.82	21.421	
12,500.00	7,618.00	7,603.00	7,603.00	74.01	131.73	90.00	257.19	-29.12	4,061.19	3,874.03	187.16	21.700	
12,600.00	7,618.00	7,603.00	7,603.00	74.93	131.73	90.00	257.19	-29.12	4,122.07	3,934.60	187.47	21.988	
12,700.00	7,618.00	7,603.00	7,603.00	75.91	131.73	90.00	257.19	-29.12	4,184.46	3,996.70	187.76	22.286	
12,800.00	7,618.00	7,603.00	7,603.00	76.95	131.73	90.00	257.19	-29.12	4,248.28	4,060.25	188.03	22.593	
12,900.00	7,618.00	7,603.00	7,603.00	78.04	131.73	90.00	257.19	-29.12	4,313.48	4,125.19	188.29	22.909	
13,000.00	7,618.00	7,603.00	7,603.00	79.16	131.73	90.00	257.19	-29.12	4,379.99	4,191.46	188.53	23.233	
13,100.00	7,618.00	7,603.00	7,603.00	80.33	131.73	90.00	257.19	-29.12	4,447.75	4,259.00	188.75	23.564	
13,200.00	7,618.00	7,603.00	7,603.00	81.54	131.73	90.00	257.19	-29.12	4,516.71	4,327.76	188.96	23.904	
13,300.00	7,618.00	7,603.00	7,603.00	82.78	131.73	90.00	257.19	-29.12	4,586.82	4,397.67	189.15	24.250	
13,400.00	7,618.00	7,603.00	7,603.00	84.05	131.73	90.00	257.19	-29.12	4,658.02	4,468.69	189.33	24.603	
13,500.00	7,618.00	7,603.00	7,603.00	85.35	131.73	90.00	257.19	-29.12	4,730.26	4,540.76	189.50	24.962	
13,600.00	7,618.00	7,603.00	7,603.00	86.67	131.73	90.00	257.19	-29.12	4,803.49	4,613.84	189.65	25.328	
13,700.00	7,618.00	7,603.00	7,603.00	88.02	131.73	90.00	257.19	-29.12	4,877.68	4,687.88	189.80	25.699	
13,800.00	7,618.00	7,603.00	7,603.00	89.38	131.73	90.00	257.19	-29.12	4,952.77	4,762.84	189.93	26.077	
13,900.00	7,618.00	7,603.00	7,603.00	90.77	131.73	90.00	257.19	-29.12	5,028.73	4,838.68	190.06	26.459	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,618.00	7,603.00	7,603.00	92.17	131.73	90.00	257.19	-29.12	5,105.52	4,915.35	190.17	26.847	
14,100.00	7,618.00	7,603.00	7,603.00	93.59	131.73	90.00	257.19	-29.12	5,183.10	4,992.82	190.28	27.239	
14,200.00	7,618.00	7,603.00	7,603.00	95.02	131.73	90.00	257.19	-29.12	5,261.44	5,071.06	190.38	27.636	
14,300.00	7,618.00	7,603.00	7,603.00	96.47	131.73	90.00	257.19	-29.12	5,340.50	5,150.03	190.47	28.038	
14,400.00	7,618.00	7,603.00	7,603.00	97.93	131.73	90.00	257.19	-29.12	5,420.26	5,229.69	190.56	28.444	
14,500.00	7,618.00	7,603.00	7,603.00	99.41	131.73	90.00	257.19	-29.12	5,500.67	5,310.03	190.64	28.853	
14,600.00	7,618.00	7,603.00	7,603.00	100.89	131.73	90.00	257.19	-29.12	5,581.72	5,391.00	190.72	29.267	
14,700.00	7,618.00	7,603.00	7,603.00	102.38	131.73	90.00	257.19	-29.12	5,663.37	5,472.59	190.79	29.684	
14,800.00	7,618.00	7,603.00	7,603.00	103.89	131.73	90.00	257.19	-29.12	5,745.61	5,554.76	190.85	30.105	
14,900.00	7,618.00	7,603.00	7,603.00	105.40	131.73	90.00	257.19	-29.12	5,828.40	5,637.48	190.91	30.529	
15,000.00	7,618.00	7,603.00	7,603.00	106.92	131.73	90.00	257.19	-29.12	5,911.72	5,720.75	190.97	30.957	
15,100.00	7,618.00	7,603.00	7,603.00	108.45	131.73	90.00	257.19	-29.12	5,995.55	5,804.53	191.02	31.387	
15,200.00	7,618.00	7,603.00	7,603.00	109.99	131.73	90.00	257.19	-29.12	6,079.87	5,888.80	191.07	31.820	
15,300.00	7,618.00	7,603.00	7,603.00	111.54	131.73	90.00	257.19	-29.12	6,164.66	5,973.54	191.11	32.256	
15,400.00	7,618.00	7,603.00	7,603.00	113.09	131.73	90.00	257.19	-29.12	6,249.90	6,058.74	191.16	32.695	
15,500.00	7,618.00	7,603.00	7,603.00	114.65	131.73	90.00	257.19	-29.12	6,335.57	6,144.37	191.20	33.136	
15,600.00	7,618.00	7,603.00	7,603.00	116.21	131.73	90.00	257.19	-29.12	6,421.65	6,230.42	191.23	33.580	
15,700.00	7,618.00	7,603.00	7,603.00	117.78	131.73	90.00	257.19	-29.12	6,508.14	6,316.87	191.27	34.026	
15,800.00	7,618.00	7,603.00	7,603.00	119.36	131.73	90.00	257.19	-29.12	6,595.00	6,403.70	191.30	34.474	
15,900.00	7,618.00	7,603.00	7,603.00	120.94	131.73	90.00	257.19	-29.12	6,682.23	6,490.90	191.33	34.925	
16,000.00	7,618.00	7,603.00	7,603.00	122.53	131.73	90.00	257.19	-29.12	6,769.82	6,578.46	191.36	35.377	
16,100.00	7,618.00	7,603.00	7,603.00	124.12	131.73	90.00	257.19	-29.12	6,857.75	6,666.35	191.39	35.831	
16,200.00	7,618.00	7,603.00	7,603.00	125.72	131.73	90.00	257.19	-29.12	6,946.00	6,754.58	191.42	36.287	
16,300.00	7,618.00	7,603.00	7,603.00	127.32	131.73	90.00	257.19	-29.12	7,034.56	6,843.12	191.44	36.745	
16,400.00	7,618.00	7,603.00	7,603.00	128.93	131.73	90.00	257.19	-29.12	7,123.43	6,931.97	191.47	37.205	
16,500.00	7,618.00	7,603.00	7,603.00	130.54	131.73	90.00	257.19	-29.12	7,212.59	7,021.10	191.49	37.666	
16,600.00	7,618.00	7,603.00	7,603.00	132.15	131.73	90.00	257.19	-29.12	7,302.03	7,110.52	191.51	38.129	
16,700.00	7,618.00	7,603.00	7,603.00	133.77	131.73	90.00	257.19	-29.12	7,391.75	7,200.21	191.53	38.593	
16,800.00	7,618.00	7,603.00	7,603.00	135.39	131.73	90.00	257.19	-29.12	7,481.72	7,290.17	191.55	39.059	
16,900.00	7,618.00	7,603.00	7,603.00	137.01	131.73	90.00	257.19	-29.12	7,571.94	7,380.37	191.57	39.526	
17,000.00	7,618.00	7,603.00	7,603.00	138.64	131.73	90.00	257.19	-29.12	7,662.41	7,470.82	191.59	39.994	
17,100.00	7,618.00	7,603.00	7,603.00	140.27	131.73	90.00	257.19	-29.12	7,753.11	7,561.50	191.61	40.463	
17,200.00	7,618.00	7,603.00	7,603.00	141.91	131.73	90.00	257.19	-29.12	7,844.04	7,652.41	191.63	40.934	
17,300.00	7,618.00	7,603.00	7,603.00	143.55	131.73	90.00	257.19	-29.12	7,935.18	7,743.54	191.64	41.406	
17,400.00	7,618.00	7,603.00	7,603.00	145.19	131.73	90.00	257.19	-29.12	8,026.54	7,834.88	191.66	41.879	
17,500.00	7,618.00	7,603.00	7,603.00	146.83	131.73	90.00	257.19	-29.12	8,118.10	7,926.42	191.68	42.353	
17,600.00	7,618.00	7,603.00	7,603.00	148.48	131.73	90.00	257.19	-29.12	8,209.86	8,018.16	191.70	42.828	
17,700.00	7,618.00	7,603.00	7,603.00	150.13	131.73	90.00	257.19	-29.12	8,301.80	8,110.09	191.71	43.303	
17,800.00	7,618.00	7,603.00	7,603.00	151.78	131.73	90.00	257.19	-29.12	8,393.94	8,202.21	191.73	43.780	
17,900.00	7,618.00	7,603.00	7,603.00	153.43	131.73	90.00	257.19	-29.12	8,486.25	8,294.50	191.75	44.258	
18,000.00	7,618.00	7,603.00	7,603.00	155.09	131.73	90.00	257.19	-29.12	8,578.73	8,386.97	191.76	44.736	
18,100.00	7,618.00	7,603.00	7,603.00	156.75	131.73	90.00	257.19	-29.12	8,671.38	8,479.60	191.78	45.215	
18,200.00	7,618.00	7,603.00	7,603.00	158.41	131.73	90.00	257.19	-29.12	8,764.19	8,572.39	191.80	45.695	
18,300.00	7,618.00	7,603.00	7,603.00	160.07	131.73	90.00	257.19	-29.12	8,857.15	8,665.34	191.81	46.176	
18,400.00	7,618.00	7,603.00	7,603.00	161.74	131.73	90.00	257.19	-29.12	8,950.27	8,758.44	191.83	46.657	
18,500.00	7,618.00	7,603.00	7,603.00	163.41	131.73	90.00	257.19	-29.12	9,043.54	8,851.69	191.85	47.139	
18,600.00	7,618.00	7,603.00	7,603.00	165.08	131.73	90.00	257.19	-29.12	9,136.95	8,945.08	191.87	47.621	
18,700.00	7,618.00	7,603.00	7,603.00	166.75	131.73	90.00	257.19	-29.12	9,230.49	9,038.61	191.89	48.104	
18,711.30	7,618.00	7,603.00	7,603.00	166.94	131.73	90.00	257.19	-29.12	9,241.07	9,049.19	191.89	48.159	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-89.48	0.36	-39.76	39.76				
100.00	100.00	100.00	100.00	0.13	0.13	-89.48	0.36	-39.76	39.76	39.49	0.27	147.895	
200.00	200.00	200.00	200.00	0.49	0.49	-89.48	0.36	-39.76	39.76	38.78	0.99	40.335	
300.00	300.00	300.00	300.00	0.85	0.85	-89.48	0.36	-39.76	39.76	38.06	1.70	23.352	
400.00	400.00	400.00	400.00	1.21	1.21	-89.48	0.36	-39.76	39.76	37.34	2.42	16.433	
500.00	500.00	500.00	500.00	1.57	1.57	-89.48	0.36	-39.76	39.76	36.63	3.14	12.677	
600.00	600.00	600.00	600.00	1.93	1.93	-89.48	0.36	-39.76	39.76	35.91	3.85	10.318	
700.00	700.00	700.00	700.00	2.29	2.29	-89.48	0.36	-39.76	39.76	35.19	4.57	8.700	
800.00	800.00	800.00	800.00	2.64	2.64	-89.48	0.36	-39.76	39.76	34.47	5.29	7.520	
900.00	900.00	900.00	900.00	3.00	3.00	-89.48	0.36	-39.76	39.76	33.76	6.00	6.622	CC, ES
1,000.00	999.98	1,000.02	999.98	3.36	3.36	-147.98	0.36	-39.76	41.23	34.51	6.72	6.138	
1,100.00	1,099.84	1,100.16	1,099.84	3.71	3.72	-151.41	0.36	-39.76	45.75	38.32	7.43	6.159	
1,200.00	1,199.45	1,200.55	1,199.45	4.07	4.08	-155.81	0.36	-39.76	53.57	45.43	8.14	6.579	
1,300.00	1,298.70	1,298.70	1,298.70	4.44	4.43	-160.14	0.36	-39.76	64.89	56.04	8.85	7.331	
1,400.00	1,397.47	1,399.83	1,399.81	4.82	4.79	-163.31	1.64	-38.58	78.33	68.76	9.57	8.188	
1,500.00	1,495.62	1,501.45	1,501.29	5.22	5.15	-165.02	5.55	-34.94	92.21	81.93	10.28	8.974	
1,600.00	1,593.06	1,603.54	1,602.97	5.65	5.52	-165.82	12.12	-28.82	106.40	95.42	10.98	9.687	
1,700.00	1,689.64	1,706.08	1,704.72	6.11	5.89	-166.00	21.40	-20.19	120.83	109.14	11.69	10.335	
1,800.00	1,785.27	1,809.07	1,806.39	6.61	6.28	-165.76	33.39	-9.03	135.49	123.08	12.40	10.922	
1,900.00	1,879.82	1,912.49	1,907.83	7.15	6.68	-165.23	48.11	4.68	150.35	137.22	13.13	11.454	
2,000.00	1,973.17	2,016.34	2,008.90	7.73	7.11	-164.47	65.58	20.94	165.42	151.56	13.86	11.934	
2,100.00	2,065.21	2,120.62	2,109.44	8.37	7.57	-163.54	85.81	39.77	180.71	166.09	14.62	12.363	
2,200.00	2,155.84	2,225.30	2,209.29	9.07	8.07	-162.49	108.80	61.16	196.22	180.82	15.40	12.741	
2,300.00	2,244.94	2,330.38	2,308.31	9.82	8.61	-161.34	134.55	85.12	211.98	195.75	16.23	13.065	
2,400.00	2,332.39	2,435.85	2,406.32	10.64	9.20	-160.11	163.05	111.65	227.99	210.89	17.10	13.333	
2,500.00	2,418.11	2,541.70	2,503.18	11.53	9.84	-158.82	194.29	140.72	244.26	226.22	18.03	13.544	
2,558.91	2,467.74	2,602.02	2,557.71	12.08	10.22	-158.08	213.16	158.28	254.09	235.46	18.63	13.637	
2,600.00	2,502.13	2,642.45	2,594.21	12.47	10.49	-157.69	225.89	170.13	261.25	242.18	19.07	13.697	
2,700.00	2,585.83	2,740.82	2,683.01	13.45	11.16	-156.80	256.88	198.97	278.74	258.57	20.17	13.821	
2,800.00	2,669.53	2,839.20	2,771.82	14.44	11.84	-156.03	287.86	227.80	296.27	274.98	21.30	13.912	
2,900.00	2,753.22	2,937.57	2,860.62	15.46	12.55	-155.34	318.84	256.63	313.86	291.40	22.46	13.976	
3,000.00	2,836.92	3,035.95	2,949.43	16.48	13.26	-154.72	349.82	285.47	331.49	307.84	23.64	14.019	
3,100.00	2,920.62	3,134.32	3,038.24	17.52	13.99	-154.17	380.80	314.30	349.14	324.29	24.86	14.046	
3,200.00	3,004.32	3,232.70	3,127.04	18.56	14.72	-153.66	411.79	343.14	366.83	340.74	26.09	14.061	
3,300.00	3,088.01	3,331.07	3,215.85	19.61	15.47	-153.21	442.77	371.97	384.54	357.20	27.34	14.065	
3,400.00	3,171.71	3,429.45	3,304.65	20.67	16.22	-152.79	473.75	400.80	402.28	373.67	28.61	14.061	
3,500.00	3,255.41	3,527.82	3,393.46	21.73	16.98	-152.41	504.73	429.64	420.03	390.14	29.89	14.052	
3,600.00	3,339.10	3,626.20	3,482.26	22.80	17.74	-152.06	535.71	458.47	437.80	406.61	31.19	14.038	
3,700.00	3,422.80	3,724.57	3,571.07	23.87	18.51	-151.74	566.69	487.30	455.58	423.09	32.49	14.021	
3,800.00	3,506.50	3,822.95	3,659.87	24.94	19.28	-151.44	597.68	516.14	473.38	439.57	33.81	14.001	
3,900.00	3,590.20	3,921.32	3,748.68	26.02	20.06	-151.17	628.66	544.97	491.19	456.05	35.14	13.979	
4,000.00	3,673.89	4,019.70	3,837.48	27.10	20.84	-150.91	659.64	573.81	509.01	472.53	36.47	13.955	
4,100.00	3,757.59	4,118.07	3,926.29	28.18	21.62	-150.67	690.62	602.64	526.83	489.02	37.82	13.931	
4,200.00	3,841.29	4,216.45	4,015.09	29.26	22.41	-150.45	721.60	631.47	544.67	505.50	39.17	13.907	
4,300.00	3,924.99	4,314.82	4,103.90	30.35	23.20	-150.24	752.59	660.31	562.51	521.99	40.52	13.882	
4,400.00	4,008.68	4,413.20	4,192.70	31.44	23.99	-150.04	783.57	689.14	580.36	538.48	41.88	13.856	
4,500.00	4,092.38	4,511.57	4,281.51	32.52	24.78	-149.86	814.55	717.97	598.22	554.97	43.25	13.831	
4,600.00	4,176.08	4,609.95	4,370.32	33.62	25.57	-149.68	845.53	746.81	616.08	571.46	44.62	13.807	
4,700.00	4,259.77	4,708.32	4,459.12	34.71	26.37	-149.52	876.51	775.64	633.95	587.95	46.00	13.782	
4,800.00	4,343.47	4,806.70	4,547.93	35.80	27.17	-149.36	907.50	804.47	651.82	604.44	47.38	13.758	
4,900.00	4,427.17	4,905.07	4,636.73	36.89	27.97	-149.21	938.48	833.31	669.70	620.93	48.76	13.734	
5,000.00	4,510.87	5,003.45	4,725.54	37.99	28.76	-149.08	969.46	862.14	687.58	637.43	50.15	13.711	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	5,101.82	4,814.34	39.08	29.57	-148.94	1,000.44	890.98	705.46	653.92	51.54	13.688	
5,200.00	4,678.26	5,200.20	4,903.15	40.18	30.37	-148.82	1,031.42	919.81	723.35	670.42	52.93	13.666	
5,300.00	4,761.96	5,301.43	4,991.95	41.28	31.19	-148.70	1,062.40	948.64	741.24	686.89	54.34	13.640	
5,400.00	4,845.66	5,403.05	5,080.76	42.37	32.02	-148.58	1,093.39	977.48	759.13	703.37	55.76	13.613	
5,500.00	4,929.35	5,504.68	5,169.56	43.47	32.85	-148.47	1,124.37	1,006.31	777.03	719.84	57.18	13.588	
5,600.00	5,013.05	5,606.30	5,258.37	44.57	33.69	-148.37	1,155.35	1,035.14	794.93	736.32	58.61	13.563	
5,700.00	5,096.75	5,707.93	5,347.17	45.67	34.52	-148.27	1,186.33	1,063.98	812.83	752.80	60.03	13.539	
5,800.00	5,180.45	5,809.55	5,435.98	46.77	35.35	-148.18	1,217.31	1,092.81	830.73	769.27	61.46	13.516	
5,900.00	5,264.14	5,888.82	5,524.78	47.87	36.00	-148.08	1,248.30	1,121.65	848.64	785.90	62.74	13.525	
6,000.00	5,347.84	5,987.20	5,613.59	48.97	36.81	-148.00	1,279.28	1,150.48	866.55	802.39	64.15	13.507	
6,100.00	5,431.54	6,085.57	5,702.40	50.07	37.62	-147.91	1,310.26	1,179.31	884.46	818.89	65.57	13.490	
6,200.00	5,515.23	6,183.95	5,791.20	51.17	38.43	-147.83	1,341.24	1,208.15	902.37	835.39	66.98	13.473	
6,300.00	5,598.93	6,282.32	5,880.01	52.27	39.23	-147.76	1,372.22	1,236.98	920.28	851.89	68.39	13.456	
6,400.00	5,682.63	6,380.70	5,968.81	53.38	40.04	-147.68	1,403.20	1,265.81	938.20	868.39	69.81	13.440	
6,500.00	5,766.33	6,479.07	6,057.62	54.48	40.85	-147.61	1,434.19	1,294.65	956.12	884.89	71.22	13.424	
6,600.00	5,850.02	6,577.45	6,146.42	55.58	41.66	-147.54	1,465.17	1,323.48	974.03	901.39	72.64	13.409	
6,700.00	5,933.72	6,675.82	6,235.23	56.68	42.48	-147.47	1,496.15	1,352.32	991.95	917.89	74.06	13.394	
6,800.00	6,017.42	6,774.20	6,324.03	57.79	43.29	-147.41	1,527.13	1,381.15	1,009.87	934.39	75.48	13.379	
6,900.00	6,101.12	6,872.57	6,412.84	58.89	44.10	-147.35	1,558.11	1,409.98	1,027.79	950.89	76.90	13.365	
7,000.00	6,184.81	6,970.95	6,501.64	59.99	44.91	-147.29	1,589.10	1,438.82	1,045.72	967.39	78.32	13.351	
7,100.00	6,268.51	7,069.32	6,590.45	61.10	45.72	-147.23	1,620.08	1,467.65	1,063.64	983.90	79.74	13.338	
7,200.00	6,352.21	7,167.70	6,679.25	62.20	46.53	-147.17	1,651.06	1,496.48	1,081.57	1,000.40	81.17	13.325	
7,300.00	6,435.90	7,266.07	6,768.06	63.31	47.35	-147.12	1,682.04	1,525.32	1,099.49	1,016.90	82.59	13.312	
7,400.00	6,519.60	7,364.45	6,856.86	64.41	48.16	-147.07	1,713.02	1,554.15	1,117.42	1,033.40	84.02	13.300	
7,500.00	6,603.30	7,462.82	6,945.67	65.51	48.97	-147.02	1,744.00	1,582.99	1,135.35	1,049.90	85.44	13.288	
7,600.00	6,687.00	7,561.20	7,034.48	66.62	49.79	-146.97	1,774.99	1,611.82	1,153.27	1,066.40	86.87	13.276	
7,700.00	6,770.69	7,659.57	7,123.28	67.72	50.60	-146.92	1,805.97	1,640.65	1,171.20	1,082.91	88.30	13.265	
7,800.00	6,854.39	7,760.91	7,215.86	68.83	51.40	-147.07	1,833.91	1,670.70	1,189.05	1,099.52	89.52	13.282	
7,900.00	6,938.09	7,859.99	7,309.39	69.93	52.01	-148.01	1,845.15	1,700.99	1,206.73	1,116.91	89.82	13.435	
7,933.18	6,965.86	7,891.09	7,338.98	70.30	52.16	-148.46	1,845.16	1,710.56	1,212.68	1,122.95	89.73	13.515	
7,950.00	6,980.00	7,906.52	7,353.64	70.49	52.23	-151.33	1,844.53	1,715.30	1,215.74	1,126.08	89.65	13.560	
8,000.00	7,022.68	7,951.61	7,396.35	71.01	52.40	-160.54	1,840.34	1,729.11	1,225.11	1,135.70	89.41	13.702	
8,050.00	7,066.06	7,995.69	7,437.68	71.51	52.52	-170.61	1,832.84	1,742.45	1,234.81	1,145.68	89.13	13.854	
8,100.00	7,109.82	8,038.88	7,477.52	71.97	52.60	178.79	1,822.27	1,755.30	1,244.74	1,155.91	88.83	14.012	
8,150.00	7,153.63	8,081.27	7,515.78	72.38	52.65	168.16	1,808.87	1,767.64	1,254.81	1,166.28	88.52	14.175	
8,200.00	7,197.14	8,122.97	7,552.41	72.74	52.67	158.00	1,792.81	1,779.43	1,264.91	1,176.69	88.21	14.340	
8,250.00	7,240.04	8,164.07	7,587.33	73.05	52.66	148.71	1,774.30	1,790.66	1,274.94	1,187.04	87.90	14.504	
8,300.00	7,281.99	8,204.64	7,620.47	73.31	52.62	140.48	1,753.48	1,801.32	1,284.81	1,197.21	87.60	14.666	
8,350.00	7,322.67	8,244.75	7,651.79	73.52	52.56	133.34	1,730.53	1,811.37	1,294.43	1,207.12	87.31	14.825	
8,400.00	7,361.77	8,284.48	7,681.23	73.68	52.47	127.23	1,705.59	1,820.81	1,303.70	1,216.66	87.03	14.979	
8,450.00	7,399.01	8,323.87	7,708.73	73.78	52.37	122.03	1,678.81	1,829.61	1,312.53	1,225.76	86.77	15.126	
8,500.00	7,434.08	8,362.98	7,734.23	73.85	52.25	117.63	1,650.31	1,837.77	1,320.86	1,234.33	86.53	15.264	
8,550.00	7,466.74	8,401.86	7,757.70	73.87	52.11	113.91	1,620.24	1,845.26	1,328.60	1,242.29	86.32	15.392	
8,600.00	7,496.72	8,440.55	7,779.07	73.85	51.96	110.78	1,588.73	1,852.06	1,335.69	1,249.57	86.12	15.510	
8,650.00	7,523.80	8,479.08	7,798.30	73.79	51.79	108.16	1,555.92	1,858.17	1,342.07	1,256.12	85.94	15.615	
8,700.00	7,547.77	8,517.49	7,815.34	73.70	51.61	106.00	1,521.92	1,863.57	1,347.68	1,261.89	85.80	15.708	
8,750.00	7,568.45	8,555.82	7,830.15	73.58	51.42	104.25	1,486.89	1,868.24	1,352.49	1,266.81	85.68	15.786	
8,800.00	7,585.69	8,594.09	7,842.68	73.43	51.23	102.87	1,450.95	1,872.17	1,356.44	1,270.86	85.58	15.850	
8,850.00	7,599.35	8,632.34	7,852.89	73.26	51.02	101.83	1,414.24	1,875.35	1,359.51	1,274.00	85.51	15.899	
8,900.00	7,609.33	8,670.58	7,860.75	73.07	50.81	101.12	1,376.90	1,877.77	1,361.68	1,276.22	85.46	15.934	
8,950.00	7,615.55	8,708.85	7,866.23	72.87	50.60	100.72	1,339.07	1,879.41	1,362.93	1,277.50	85.43	15.954	
9,000.00	7,617.97	8,747.16	7,869.30	72.65	50.38	100.62	1,300.89	1,880.27	1,363.25	1,277.83	85.42	15.959	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,006.60	7,618.00	8,752.23	7,869.52	72.62	50.35	100.63	1,295.83	1,880.33	1,363.22	1,277.80	85.42	15.959	
9,038.76	7,618.00	8,777.13	7,870.00	72.48	50.21	100.65	1,270.94	1,880.40	1,363.14	1,277.72	85.42	15.959	
9,100.00	7,618.00	8,838.37	7,870.00	72.22	49.86	100.65	1,209.70	1,880.19	1,363.14	1,278.25	84.88	16.059	
9,200.00	7,618.00	8,938.37	7,870.00	71.80	49.33	100.65	1,109.70	1,879.85	1,363.14	1,279.02	84.12	16.204	
9,300.00	7,618.00	9,038.37	7,870.00	71.41	48.82	100.65	1,009.70	1,879.51	1,363.14	1,279.64	83.50	16.325	
9,400.00	7,618.00	9,138.37	7,870.00	71.04	48.34	100.65	909.70	1,879.17	1,363.14	1,280.12	83.02	16.420	
9,500.00	7,618.00	9,238.37	7,870.00	70.68	47.89	100.65	809.70	1,878.83	1,363.14	1,280.46	82.68	16.486	
9,600.00	7,618.00	9,338.37	7,870.00	70.35	47.47	100.65	709.70	1,878.49	1,363.14	1,280.65	82.49	16.524	
9,700.00	7,618.00	9,438.37	7,870.00	70.04	47.07	100.65	609.70	1,878.15	1,363.14	1,280.69	82.45	16.533	
9,800.00	7,618.00	9,538.37	7,870.00	69.75	46.69	100.65	509.70	1,877.81	1,363.14	1,280.58	82.56	16.511	
9,900.00	7,618.00	9,638.37	7,870.00	69.47	46.34	100.65	409.70	1,877.47	1,363.14	1,280.33	82.81	16.461	
10,000.00	7,618.00	9,738.37	7,870.00	69.22	46.01	100.65	309.70	1,877.13	1,363.14	1,279.93	83.21	16.382	
10,100.00	7,618.00	9,838.37	7,870.00	68.99	45.71	100.65	209.70	1,876.79	1,363.14	1,279.39	83.75	16.276	
10,200.00	7,618.00	9,938.37	7,870.00	68.78	45.43	100.65	109.70	1,876.45	1,363.14	1,278.71	84.43	16.144	
10,300.00	7,618.00	10,038.37	7,870.00	68.59	45.17	100.65	9.70	1,876.11	1,363.14	1,277.89	85.25	15.989	
10,400.00	7,618.00	10,138.37	7,870.00	68.42	44.94	100.65	-90.30	1,875.77	1,363.15	1,276.94	86.21	15.812	
10,500.00	7,618.00	10,238.37	7,870.00	68.28	44.75	100.65	-190.30	1,875.43	1,363.15	1,275.85	87.29	15.616	
10,600.00	7,618.00	10,338.37	7,870.00	68.16	44.60	100.65	-290.29	1,875.10	1,363.15	1,274.65	88.50	15.403	
10,700.00	7,618.00	10,438.37	7,870.00	68.06	44.55	100.65	-390.29	1,874.76	1,363.15	1,273.32	89.83	15.175	
10,800.00	7,618.00	10,538.37	7,870.00	67.99	44.63	100.65	-490.29	1,874.42	1,363.15	1,271.88	91.27	14.936	
10,900.00	7,618.00	10,638.37	7,870.00	67.95	44.98	100.65	-590.29	1,874.08	1,363.15	1,270.33	92.82	14.687	
11,000.00	7,618.00	10,738.37	7,870.00	67.95	45.63	100.65	-690.29	1,873.74	1,363.15	1,268.68	94.47	14.430	
11,100.00	7,618.00	10,838.37	7,870.00	67.97	46.49	100.65	-790.29	1,873.40	1,363.15	1,266.93	96.22	14.167	
11,200.00	7,618.00	10,938.37	7,870.00	68.04	47.48	100.65	-890.29	1,873.06	1,363.15	1,265.09	98.06	13.901	
11,300.00	7,618.00	11,038.37	7,870.00	68.15	48.54	100.65	-990.29	1,872.72	1,363.15	1,263.16	99.99	13.633	
11,400.00	7,618.00	11,138.37	7,870.00	68.30	49.66	100.65	-1,090.29	1,872.38	1,363.15	1,261.15	102.00	13.364	
11,500.00	7,618.00	11,238.37	7,870.00	68.50	50.82	100.65	-1,190.29	1,872.04	1,363.15	1,259.06	104.10	13.095	
11,600.00	7,618.00	11,338.37	7,870.00	68.75	52.01	100.65	-1,290.29	1,871.70	1,363.15	1,256.89	106.26	12.829	
11,700.00	7,618.00	11,438.37	7,870.00	69.06	53.23	100.65	-1,390.29	1,871.36	1,363.15	1,254.66	108.49	12.565	
11,800.00	7,618.00	11,538.37	7,870.00	69.44	54.49	100.65	-1,490.29	1,871.02	1,363.15	1,252.36	110.79	12.304	
11,900.00	7,618.00	11,638.37	7,870.00	69.88	55.76	100.65	-1,590.29	1,870.68	1,363.15	1,250.01	113.15	12.048	
12,000.00	7,618.00	11,738.37	7,870.00	70.39	57.06	100.65	-1,690.29	1,870.34	1,363.15	1,247.59	115.56	11.796	
12,100.00	7,618.00	11,838.37	7,870.00	70.97	58.39	100.65	-1,790.29	1,870.00	1,363.15	1,245.12	118.03	11.549	
12,200.00	7,618.00	11,938.37	7,870.00	71.63	59.73	100.65	-1,890.29	1,869.66	1,363.15	1,242.60	120.55	11.308	
12,300.00	7,618.00	12,038.37	7,870.00	72.35	61.09	100.65	-1,990.28	1,869.32	1,363.16	1,240.04	123.12	11.072	
12,400.00	7,618.00	12,138.37	7,870.00	73.15	62.47	100.65	-2,090.28	1,868.98	1,363.16	1,237.43	125.73	10.842	
12,500.00	7,618.00	12,238.37	7,870.00	74.01	63.87	100.65	-2,190.28	1,868.64	1,363.16	1,234.78	128.38	10.618	
12,600.00	7,618.00	12,338.37	7,870.00	74.93	65.28	100.65	-2,290.28	1,868.30	1,363.16	1,232.09	131.07	10.400	
12,700.00	7,618.00	12,438.37	7,870.00	75.91	66.71	100.65	-2,390.28	1,867.96	1,363.16	1,229.36	133.80	10.188	
12,800.00	7,618.00	12,538.37	7,870.00	76.95	68.15	100.65	-2,490.28	1,867.62	1,363.16	1,226.60	136.56	9.982	
12,900.00	7,618.00	12,638.37	7,870.00	78.04	69.60	100.65	-2,590.28	1,867.28	1,363.16	1,223.81	139.35	9.782	
13,000.00	7,618.00	12,738.37	7,870.00	79.16	71.07	100.65	-2,690.28	1,866.94	1,363.16	1,220.98	142.18	9.588	
13,100.00	7,618.00	12,838.37	7,870.00	80.33	72.55	100.65	-2,790.28	1,866.60	1,363.16	1,218.13	145.03	9.399	
13,200.00	7,618.00	12,938.37	7,870.00	81.54	74.04	100.65	-2,890.28	1,866.26	1,363.16	1,215.25	147.91	9.216	
13,300.00	7,618.00	13,038.37	7,870.00	82.78	75.54	100.65	-2,990.28	1,865.92	1,363.16	1,212.34	150.82	9.039	
13,400.00	7,618.00	13,138.37	7,870.00	84.05	77.05	100.65	-3,090.28	1,865.58	1,363.16	1,209.41	153.75	8.866	
13,500.00	7,618.00	13,238.37	7,870.00	85.35	78.57	100.65	-3,190.28	1,865.24	1,363.16	1,206.46	156.70	8.699	
13,600.00	7,618.00	13,338.37	7,870.00	86.67	80.10	100.65	-3,290.28	1,864.90	1,363.16	1,203.49	159.67	8.537	
13,700.00	7,618.00	13,438.37	7,870.00	88.02	81.64	100.65	-3,390.28	1,864.56	1,363.16	1,200.49	162.67	8.380	
13,800.00	7,618.00	13,538.37	7,870.00	89.38	83.18	100.65	-3,490.28	1,864.23	1,363.16	1,197.48	165.68	8.228	
13,900.00	7,618.00	13,638.37	7,870.00	90.77	84.74	100.65	-3,590.28	1,863.89	1,363.16	1,194.45	168.71	8.080	
14,000.00	7,618.00	13,738.37	7,870.00	92.17	86.30	100.65	-3,690.28	1,863.55	1,363.16	1,191.40	171.76	7.936	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,618.00	13,838.37	7,870.00	93.59	87.87	100.65	-3,790.27	1,863.21	1,363.16	1,188.34	174.83	7.797	
14,200.00	7,618.00	13,938.37	7,870.00	95.02	89.44	100.65	-3,890.27	1,862.87	1,363.17	1,185.26	177.91	7.662	
14,300.00	7,618.00	14,038.37	7,870.00	96.47	91.02	100.65	-3,990.27	1,862.53	1,363.17	1,182.16	181.01	7.531	
14,400.00	7,618.00	14,138.37	7,870.00	97.93	92.61	100.65	-4,090.27	1,862.19	1,363.17	1,179.05	184.12	7.404	
14,500.00	7,618.00	14,238.37	7,870.00	99.41	94.20	100.65	-4,190.27	1,861.85	1,363.17	1,175.93	187.24	7.280	
14,600.00	7,618.00	14,338.37	7,870.00	100.89	95.80	100.65	-4,290.27	1,861.51	1,363.17	1,172.79	190.37	7.160	
14,700.00	7,618.00	14,438.37	7,870.00	102.38	97.40	100.65	-4,390.27	1,861.17	1,363.17	1,169.65	193.52	7.044	
14,800.00	7,618.00	14,538.37	7,870.00	103.89	99.01	100.65	-4,490.27	1,860.83	1,363.17	1,166.49	196.68	6.931	
14,900.00	7,618.00	14,638.37	7,870.00	105.40	100.62	100.65	-4,590.27	1,860.49	1,363.17	1,163.32	199.85	6.821	
15,000.00	7,618.00	14,738.37	7,870.00	106.92	102.24	100.65	-4,690.27	1,860.15	1,363.17	1,160.14	203.03	6.714	
15,100.00	7,618.00	14,838.37	7,870.00	108.45	103.87	100.65	-4,790.27	1,859.81	1,363.17	1,156.95	206.22	6.610	
15,200.00	7,618.00	14,938.37	7,870.00	109.99	105.49	100.65	-4,890.27	1,859.47	1,363.17	1,153.75	209.42	6.509	
15,300.00	7,618.00	15,038.37	7,870.00	111.54	107.12	100.65	-4,990.27	1,859.13	1,363.17	1,150.54	212.63	6.411	
15,400.00	7,618.00	15,138.37	7,870.00	113.09	108.76	100.65	-5,090.27	1,858.79	1,363.17	1,147.33	215.84	6.316	
15,500.00	7,618.00	15,238.37	7,870.00	114.65	110.40	100.65	-5,190.27	1,858.45	1,363.17	1,144.10	219.07	6.223	
15,600.00	7,618.00	15,338.37	7,870.00	116.21	112.04	100.65	-5,290.27	1,858.11	1,363.17	1,140.87	222.30	6.132	
15,700.00	7,618.00	15,438.37	7,870.00	117.78	113.68	100.65	-5,390.27	1,857.77	1,363.17	1,137.63	225.54	6.044	
15,800.00	7,618.00	15,538.37	7,870.00	119.36	115.33	100.65	-5,490.26	1,857.43	1,363.17	1,134.38	228.79	5.958	
15,900.00	7,618.00	15,638.37	7,870.00	120.94	116.98	100.65	-5,590.26	1,857.09	1,363.17	1,131.13	232.05	5.875	
16,000.00	7,618.00	15,738.37	7,870.00	122.53	118.64	100.65	-5,690.26	1,856.75	1,363.17	1,127.87	235.31	5.793	
16,100.00	7,618.00	15,838.37	7,870.00	124.12	120.30	100.65	-5,790.26	1,856.41	1,363.18	1,124.60	238.58	5.714	
16,200.00	7,618.00	15,938.37	7,870.00	125.72	121.96	100.65	-5,890.26	1,856.07	1,363.18	1,121.33	241.85	5.636	
16,300.00	7,618.00	16,038.37	7,870.00	127.32	123.62	100.65	-5,990.26	1,855.73	1,363.18	1,118.05	245.13	5.561	
16,400.00	7,618.00	16,138.37	7,870.00	128.93	125.29	100.65	-6,090.26	1,855.39	1,363.18	1,114.76	248.41	5.488	
16,500.00	7,618.00	16,238.37	7,870.00	130.54	126.96	100.65	-6,190.26	1,855.05	1,363.18	1,111.47	251.71	5.416	
16,600.00	7,618.00	16,338.37	7,870.00	132.15	128.63	100.65	-6,290.26	1,854.71	1,363.18	1,108.18	255.00	5.346	
16,700.00	7,618.00	16,438.37	7,870.00	133.77	130.30	100.65	-6,390.26	1,854.37	1,363.18	1,104.88	258.30	5.277	
16,800.00	7,618.00	16,538.37	7,870.00	135.39	131.98	100.65	-6,490.26	1,854.03	1,363.18	1,101.57	261.61	5.211	
16,900.00	7,618.00	16,638.37	7,870.00	137.01	133.66	100.65	-6,590.26	1,853.69	1,363.18	1,098.26	264.92	5.146	
17,000.00	7,618.00	16,738.37	7,870.00	138.64	135.34	100.65	-6,690.26	1,853.36	1,363.18	1,094.95	268.23	5.082	
17,100.00	7,618.00	16,838.37	7,870.00	140.27	137.02	100.65	-6,790.26	1,853.02	1,363.18	1,091.63	271.55	5.020	
17,200.00	7,618.00	16,938.37	7,870.00	141.91	138.70	100.65	-6,890.26	1,852.68	1,363.18	1,088.31	274.88	4.959	
17,300.00	7,618.00	17,038.37	7,870.00	143.55	140.39	100.65	-6,990.26	1,852.34	1,363.18	1,084.98	278.20	4.900	
17,400.00	7,618.00	17,138.37	7,870.00	145.19	142.08	100.65	-7,090.26	1,852.00	1,363.18	1,081.65	281.53	4.842	
17,500.00	7,618.00	17,238.37	7,870.00	146.83	143.77	100.65	-7,190.26	1,851.66	1,363.18	1,078.31	284.87	4.785	
17,600.00	7,618.00	17,338.37	7,870.00	148.48	145.46	100.65	-7,290.25	1,851.32	1,363.18	1,074.98	288.21	4.730	
17,700.00	7,618.00	17,438.37	7,870.00	150.13	147.15	100.65	-7,390.25	1,850.98	1,363.18	1,071.64	291.55	4.676	
17,800.00	7,618.00	17,538.37	7,870.00	151.78	148.85	100.65	-7,490.25	1,850.64	1,363.18	1,068.29	294.89	4.623	
17,900.00	7,618.00	17,638.37	7,870.00	153.43	150.54	100.65	-7,590.25	1,850.30	1,363.18	1,064.94	298.24	4.571	
18,000.00	7,618.00	17,738.37	7,870.00	155.09	152.24	100.65	-7,690.25	1,849.96	1,363.19	1,061.59	301.59	4.520	
18,100.00	7,618.00	17,838.37	7,870.00	156.75	153.94	100.65	-7,790.25	1,849.62	1,363.19	1,058.24	304.95	4.470	
18,200.00	7,618.00	17,938.37	7,870.00	158.41	155.64	100.65	-7,890.25	1,849.28	1,363.19	1,054.88	308.31	4.422	
18,300.00	7,618.00	18,038.37	7,870.00	160.07	157.34	100.65	-7,990.25	1,848.94	1,363.19	1,051.52	311.67	4.374	
18,400.00	7,618.00	18,138.37	7,870.00	161.74	159.04	100.65	-8,090.25	1,848.60	1,363.19	1,048.16	315.03	4.327	
18,500.00	7,618.00	18,238.37	7,870.00	163.41	160.75	100.65	-8,190.25	1,848.26	1,363.19	1,044.79	318.39	4.281	
18,600.00	7,618.00	18,338.37	7,870.00	165.08	162.46	100.65	-8,290.25	1,847.92	1,363.19	1,041.43	321.76	4.237	
18,700.00	7,618.00	18,438.37	7,870.00	166.75	164.16	100.65	-8,390.25	1,847.58	1,363.19	1,038.06	325.13	4.193	
18,711.30	7,618.00	18,449.67	7,870.00	166.94	164.35	100.65	-8,401.55	1,847.54	1,363.19	1,037.68	325.51	4.188	SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-90.00	0.00	-29.96	29.96				
100.00	100.00	100.00	100.00	0.13	0.13	-90.00	0.00	-29.96	29.96	29.69	0.27	111.437	
200.00	200.00	200.00	200.00	0.49	0.49	-90.00	0.00	-29.96	29.96	28.97	0.99	30.392	
300.00	300.00	300.00	300.00	0.85	0.85	-90.00	0.00	-29.96	29.96	28.26	1.70	17.595	
400.00	400.00	400.00	400.00	1.21	1.21	-90.00	0.00	-29.96	29.96	27.54	2.42	12.382	
500.00	500.00	500.00	500.00	1.57	1.57	-90.00	0.00	-29.96	29.96	26.82	3.14	9.552	
600.00	600.00	600.00	600.00	1.93	1.93	-90.00	0.00	-29.96	29.96	26.11	3.85	7.775	
700.00	700.00	700.00	700.00	2.29	2.29	-90.00	0.00	-29.96	29.96	25.39	4.57	6.555	
800.00	800.00	800.00	800.00	2.64	2.64	-90.00	0.00	-29.96	29.96	24.67	5.29	5.666	
900.00	900.00	900.00	900.00	3.00	3.00	-90.00	0.00	-29.96	29.96	23.96	6.00	4.990	CC, ES
1,000.00	999.98	1,000.02	999.98	3.36	3.36	-148.90	0.00	-29.96	31.44	24.72	6.72	4.681	
1,100.00	1,099.84	1,100.16	1,099.84	3.71	3.72	-153.16	0.00	-29.96	36.02	28.60	7.43	4.849	
1,200.00	1,199.45	1,199.45	1,199.45	4.07	4.08	-158.23	0.00	-29.96	43.98	35.84	8.14	5.403	
1,300.00	1,298.70	1,300.39	1,300.37	4.44	4.44	-162.05	1.20	-28.67	53.95	45.10	8.85	6.096	
1,400.00	1,397.47	1,401.70	1,401.54	4.82	4.80	-164.13	4.83	-24.76	64.27	54.72	9.55	6.727	
1,500.00	1,495.62	1,503.37	1,502.80	5.22	5.16	-165.17	10.92	-18.20	74.80	64.55	10.26	7.293	
1,600.00	1,593.06	1,605.39	1,604.04	5.65	5.53	-165.53	19.48	-8.98	85.50	74.54	10.96	7.803	
1,700.00	1,689.64	1,707.76	1,705.11	6.11	5.92	-165.43	30.54	2.93	96.32	84.66	11.66	8.261	
1,800.00	1,785.27	1,810.48	1,805.87	6.61	6.32	-165.02	44.09	17.52	107.26	94.89	12.37	8.673	
1,900.00	1,879.82	1,913.54	1,906.18	7.15	6.75	-164.37	60.15	34.82	118.32	105.24	13.08	9.043	
2,000.00	1,973.17	2,016.93	2,005.90	7.73	7.21	-163.54	78.72	54.82	129.50	115.68	13.82	9.372	
2,100.00	2,065.21	2,120.65	2,104.88	8.37	7.71	-162.58	99.80	77.51	140.81	126.23	14.57	9.661	
2,200.00	2,155.84	2,224.69	2,202.98	9.07	8.25	-161.52	123.37	102.90	152.24	136.88	15.36	9.909	
2,300.00	2,244.94	2,329.04	2,300.04	9.82	8.84	-160.38	149.44	130.97	163.82	147.62	16.19	10.116	
2,400.00	2,332.39	2,433.70	2,395.92	10.64	9.49	-159.18	177.98	161.71	175.54	158.46	17.08	10.278	
2,500.00	2,418.11	2,538.67	2,490.48	11.53	10.19	-157.92	208.98	195.09	187.42	169.39	18.03	10.396	
2,558.91	2,467.74	2,599.48	2,544.51	12.08	10.62	-157.19	227.97	215.55	194.54	175.91	18.64	10.440	
2,600.00	2,502.13	2,640.22	2,580.61	12.47	10.92	-156.78	240.82	229.39	199.74	180.65	19.09	10.461	
2,700.00	2,585.83	2,739.36	2,668.45	13.45	11.67	-155.87	272.09	263.06	212.43	192.20	20.24	10.497	
2,800.00	2,669.53	2,838.49	2,756.30	14.44	12.43	-155.06	303.35	296.73	225.17	203.75	21.42	10.514	
2,900.00	2,753.22	2,937.63	2,844.14	15.46	13.21	-154.33	334.62	330.40	237.95	215.32	22.63	10.514	
3,000.00	2,836.92	3,036.77	2,931.99	16.48	14.00	-153.68	365.89	364.07	250.76	226.89	23.87	10.504	
3,100.00	2,920.62	3,135.91	3,019.84	17.52	14.81	-153.10	397.15	397.74	263.60	238.46	25.14	10.484	
3,200.00	3,004.32	3,235.05	3,107.68	18.56	15.63	-152.57	428.42	431.41	276.46	250.03	26.43	10.459	
3,300.00	3,088.01	3,334.18	3,195.53	19.61	16.45	-152.08	459.69	465.08	289.35	261.61	27.75	10.429	
3,400.00	3,171.71	3,433.32	3,283.38	20.67	17.28	-151.64	490.95	498.76	302.26	273.18	29.07	10.396	
3,500.00	3,255.41	3,532.46	3,371.22	21.73	18.12	-151.23	522.22	532.43	315.18	284.76	30.42	10.361	
3,600.00	3,339.10	3,631.60	3,459.07	22.80	18.96	-150.86	553.49	566.10	328.11	296.33	31.78	10.325	
3,700.00	3,422.80	3,730.74	3,546.91	23.87	19.81	-150.51	584.75	599.77	341.06	307.91	33.15	10.289	
3,800.00	3,506.50	3,829.87	3,634.76	24.94	20.66	-150.19	616.02	633.44	354.02	319.49	34.53	10.253	
3,900.00	3,590.20	3,929.01	3,722.61	26.02	21.52	-149.89	647.28	667.11	366.99	331.07	35.92	10.216	
4,000.00	3,673.89	4,028.15	3,810.45	27.10	22.37	-149.61	678.55	700.78	379.97	342.65	37.32	10.181	
4,100.00	3,757.59	4,127.29	3,898.30	28.18	23.23	-149.35	709.82	734.46	392.96	354.22	38.73	10.146	
4,200.00	3,841.29	4,226.43	3,986.15	29.26	24.10	-149.11	741.08	768.13	405.95	365.80	40.15	10.112	
4,300.00	3,924.99	4,325.56	4,073.99	30.35	24.96	-148.88	772.35	801.80	418.95	377.38	41.57	10.078	
4,400.00	4,008.68	4,424.70	4,161.84	31.44	25.83	-148.67	803.62	835.47	431.96	388.96	43.00	10.046	
4,500.00	4,092.38	4,523.84	4,249.69	32.52	26.70	-148.46	834.88	869.14	444.97	400.54	44.43	10.015	
4,600.00	4,176.08	4,622.98	4,337.53	33.62	27.57	-148.27	866.15	902.81	457.99	412.12	45.87	9.984	
4,700.00	4,259.77	4,722.11	4,425.38	34.71	28.45	-148.09	897.42	936.48	471.01	423.70	47.31	9.955	
4,800.00	4,343.47	4,821.25	4,513.22	35.80	29.32	-147.92	928.68	970.15	484.04	435.28	48.76	9.927	
4,900.00	4,427.17	4,920.39	4,601.07	36.89	30.20	-147.76	959.95	1,003.83	497.07	446.86	50.21	9.899	
5,000.00	4,510.87	5,019.53	4,688.92	37.99	31.07	-147.61	991.21	1,037.50	510.11	458.44	51.67	9.873	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	5,118.67	4,776.76	39.08	31.95	-147.46	1,022.48	1,071.17	523.14	470.02	53.13	9.847	
5,200.00	4,678.26	5,217.80	4,864.61	40.18	32.83	-147.33	1,053.75	1,104.84	536.18	481.60	54.59	9.822	
5,300.00	4,761.96	5,316.94	4,952.46	41.28	33.71	-147.19	1,085.01	1,138.51	549.23	493.18	56.05	9.799	
5,400.00	4,845.66	5,416.08	5,040.30	42.37	34.59	-147.07	1,116.28	1,172.18	562.28	504.76	57.52	9.776	
5,500.00	4,929.35	5,515.22	5,128.15	43.47	35.47	-146.95	1,147.55	1,205.85	575.33	516.34	58.99	9.753	
5,600.00	5,013.05	5,614.36	5,215.99	44.57	36.35	-146.83	1,178.81	1,239.53	588.38	527.92	60.46	9.732	
5,700.00	5,096.75	5,713.49	5,303.84	45.67	37.24	-146.72	1,210.08	1,273.20	601.43	539.50	61.93	9.711	
5,800.00	5,180.45	5,812.63	5,391.69	46.77	38.12	-146.62	1,241.35	1,306.87	614.49	551.08	63.41	9.691	
5,900.00	5,264.14	5,911.77	5,479.53	47.87	39.00	-146.52	1,272.61	1,340.54	627.55	562.66	64.89	9.672	
6,000.00	5,347.84	6,010.91	5,567.38	48.97	39.89	-146.42	1,303.88	1,374.21	640.61	574.24	66.36	9.653	
6,100.00	5,431.54	6,110.04	5,655.23	50.07	40.77	-146.33	1,335.14	1,407.88	653.67	585.82	67.84	9.635	
6,200.00	5,515.23	6,209.18	5,743.07	51.17	41.66	-146.24	1,366.41	1,441.55	666.73	597.40	69.33	9.617	
6,300.00	5,598.93	6,308.32	5,830.92	52.27	42.54	-146.15	1,397.68	1,475.22	679.79	608.98	70.81	9.600	
6,400.00	5,682.63	6,407.46	5,918.77	53.38	43.43	-146.07	1,428.94	1,508.90	692.86	620.57	72.30	9.584	
6,500.00	5,766.33	6,506.60	6,006.61	54.48	44.32	-145.99	1,460.21	1,542.57	705.93	632.15	73.78	9.568	
6,600.00	5,850.02	6,605.73	6,094.46	55.58	45.20	-145.92	1,491.48	1,576.24	719.00	643.73	75.27	9.552	
6,700.00	5,933.72	6,704.87	6,182.30	56.68	46.09	-145.84	1,522.74	1,609.91	732.07	655.31	76.76	9.537	
6,800.00	6,017.42	6,804.01	6,270.15	57.79	46.98	-145.77	1,554.01	1,643.58	745.14	666.89	78.25	9.523	
6,900.00	6,101.12	6,903.15	6,358.00	58.89	47.87	-145.70	1,585.28	1,677.25	758.21	678.47	79.74	9.509	
7,000.00	6,184.81	7,002.29	6,445.84	59.99	48.76	-145.64	1,616.54	1,710.92	771.28	690.06	81.23	9.495	
7,100.00	6,268.51	7,101.42	6,533.69	61.10	49.64	-145.57	1,647.81	1,744.60	784.36	701.64	82.72	9.482	
7,200.00	6,352.21	7,200.56	6,621.54	62.20	50.53	-145.51	1,679.07	1,778.27	797.43	713.22	84.21	9.469	
7,300.00	6,435.90	7,300.30	6,709.38	63.31	51.43	-145.45	1,710.34	1,811.94	810.51	724.80	85.71	9.456	
7,400.00	6,519.60	7,401.16	6,797.23	64.41	52.33	-145.39	1,741.61	1,845.61	823.59	736.37	87.22	9.443	
7,500.00	6,603.30	7,502.03	6,885.07	65.51	53.24	-145.34	1,772.87	1,879.28	836.66	747.94	88.73	9.430	
7,600.00	6,687.00	7,602.89	6,972.92	66.62	54.14	-145.28	1,804.14	1,912.95	849.74	759.51	90.24	9.417	
7,700.00	6,770.69	7,700.67	7,065.15	67.72	55.01	-145.34	1,835.16	1,948.30	862.72	771.11	91.61	9.417	
7,800.00	6,854.39	7,807.94	7,164.08	68.83	55.79	-146.48	1,851.14	1,986.15	874.83	783.03	91.81	9.529	
7,900.00	6,938.09	7,906.02	7,255.54	69.93	56.32	-148.61	1,848.26	2,021.09	886.90	796.18	90.72	9.777	
7,933.18	6,965.86	7,935.80	7,283.09	70.30	56.44	-149.44	1,844.08	2,031.60	891.19	801.03	90.16	9.885	
7,950.00	6,980.00	7,950.44	7,296.54	70.49	56.50	-152.42	1,841.46	2,036.73	893.46	803.59	89.87	9.942	
8,000.00	7,022.68	7,993.04	7,335.30	71.01	56.62	-161.93	1,831.76	2,051.51	900.68	811.66	89.01	10.118	
8,050.00	7,066.06	8,034.44	7,372.22	71.51	56.71	-172.29	1,819.41	2,065.57	908.48	820.27	88.21	10.299	
8,100.00	7,109.82	8,074.79	7,407.31	71.97	56.77	176.83	1,804.66	2,078.93	916.77	829.29	87.48	10.480	
8,150.00	7,153.63	8,114.23	7,440.59	72.38	56.79	165.93	1,787.73	2,091.58	925.41	838.60	86.81	10.660	
8,200.00	7,197.14	8,152.87	7,472.07	72.74	56.80	155.53	1,768.80	2,103.55	934.27	848.06	86.21	10.837	
8,250.00	7,240.04	8,190.82	7,501.76	73.05	56.77	146.00	1,748.03	2,114.82	943.25	857.58	85.67	11.010	
8,300.00	7,281.99	8,228.18	7,529.68	73.31	56.73	137.55	1,725.59	2,125.41	952.22	867.02	85.20	11.177	
8,350.00	7,322.67	8,265.02	7,555.81	73.52	56.66	130.21	1,701.60	2,135.32	961.06	876.27	84.79	11.335	
8,400.00	7,361.77	8,300.00	7,579.25	73.68	56.59	123.93	1,677.20	2,144.19	969.67	885.16	84.51	11.474	
8,450.00	7,399.01	8,337.41	7,602.72	73.78	56.48	118.54	1,649.47	2,153.06	977.95	893.78	84.16	11.619	
8,500.00	7,434.08	8,373.07	7,623.48	73.85	56.37	113.98	1,621.55	2,160.90	985.79	901.85	83.95	11.743	
8,550.00	7,466.74	8,408.45	7,642.44	73.87	56.25	110.13	1,592.56	2,168.04	993.13	909.34	83.79	11.852	
8,600.00	7,496.72	8,443.58	7,659.57	73.85	56.11	106.87	1,562.58	2,174.49	999.87	916.17	83.70	11.946	
8,650.00	7,523.80	8,478.51	7,674.88	73.79	55.97	104.15	1,531.71	2,180.23	1,005.94	922.27	83.67	12.022	
8,700.00	7,547.77	8,513.28	7,688.34	73.70	55.81	101.90	1,500.07	2,185.27	1,011.30	927.59	83.71	12.081	
8,750.00	7,568.45	8,550.00	7,700.59	73.58	55.64	100.06	1,465.75	2,189.83	1,015.88	932.18	83.70	12.137	
8,800.00	7,585.69	8,582.43	7,709.68	73.43	55.48	98.62	1,434.81	2,193.20	1,019.63	935.66	83.97	12.142	
8,850.00	7,599.35	8,616.88	7,717.52	73.26	55.31	97.53	1,401.40	2,196.08	1,022.54	938.34	84.19	12.145	
8,900.00	7,609.33	8,650.00	7,723.29	73.07	55.14	96.79	1,368.85	2,198.17	1,024.56	940.02	84.54	12.120	
8,950.00	7,615.55	8,685.65	7,727.52	72.87	54.95	96.36	1,333.49	2,199.67	1,025.68	940.89	84.79	12.097	
9,000.00	7,617.97	8,720.03	7,729.65	72.65	54.76	96.25	1,299.19	2,200.36	1,025.90	940.74	85.15	12.048	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,006.60	7,618.00	8,724.57	7,729.78	72.62	54.74	96.26	1,294.65	2,200.40	1,025.86	940.65	85.20	12.040	
9,024.31	7,618.00	8,746.75	7,730.00	72.54	54.62	96.27	1,284.31	2,200.45	1,025.77	940.39	85.39	12.013	
9,100.00	7,618.00	8,810.60	7,730.00	72.22	54.28	96.27	1,208.62	2,200.19	1,025.77	941.07	84.71	12.110	
9,200.00	7,618.00	8,910.60	7,730.00	71.80	53.77	96.27	1,108.62	2,199.85	1,025.78	941.92	83.85	12.233	
9,300.00	7,618.00	9,010.60	7,730.00	71.41	53.28	96.27	1,008.62	2,199.51	1,025.78	942.64	83.14	12.338	
9,400.00	7,618.00	9,110.60	7,730.00	71.04	52.83	96.27	908.63	2,199.17	1,025.78	943.21	82.57	12.423	
9,500.00	7,618.00	9,210.60	7,730.00	70.68	52.40	96.27	808.63	2,198.83	1,025.78	943.64	82.15	12.487	
9,600.00	7,618.00	9,310.60	7,730.00	70.35	51.99	96.27	708.63	2,198.48	1,025.78	943.91	81.87	12.529	
9,700.00	7,618.00	9,410.60	7,730.00	70.04	51.61	96.27	608.63	2,198.14	1,025.79	944.03	81.75	12.548	
9,800.00	7,618.00	9,510.60	7,730.00	69.75	51.25	96.27	508.63	2,197.80	1,025.79	944.01	81.78	12.543	
9,900.00	7,618.00	9,610.60	7,730.00	69.47	50.92	96.27	408.63	2,197.46	1,025.79	943.83	81.96	12.516	
10,000.00	7,618.00	9,710.60	7,730.00	69.22	50.61	96.27	308.63	2,197.12	1,025.79	943.50	82.29	12.465	
10,100.00	7,618.00	9,810.60	7,730.00	68.99	50.32	96.27	208.63	2,196.78	1,025.79	943.02	82.77	12.393	
10,200.00	7,618.00	9,910.60	7,730.00	68.78	50.07	96.27	108.63	2,196.44	1,025.80	942.40	83.40	12.300	
10,300.00	7,618.00	10,010.60	7,730.00	68.59	49.83	96.27	8.63	2,196.10	1,025.80	941.63	84.16	12.188	
10,400.00	7,618.00	10,110.60	7,730.00	68.42	49.63	96.27	-91.37	2,195.76	1,025.80	940.73	85.07	12.058	
10,500.00	7,618.00	10,210.60	7,730.00	68.28	49.47	96.27	-191.37	2,195.41	1,025.80	939.69	86.11	11.912	
10,600.00	7,618.00	10,310.60	7,730.00	68.16	49.34	96.27	-291.37	2,195.07	1,025.80	938.52	87.28	11.753	
10,700.00	7,618.00	10,410.60	7,730.00	68.06	49.26	96.27	-391.37	2,194.73	1,025.80	937.23	88.58	11.581	
10,800.00	7,618.00	10,510.60	7,730.00	67.99	49.26	96.27	-491.37	2,194.39	1,025.81	935.82	89.99	11.399	
10,900.00	7,618.00	10,610.60	7,730.00	67.95	49.34	96.27	-591.37	2,194.05	1,025.81	934.29	91.52	11.209	
11,000.00	7,618.00	10,710.60	7,730.00	67.95	49.53	96.27	-691.37	2,193.71	1,025.81	932.66	93.15	11.012	
11,100.00	7,618.00	10,810.60	7,730.00	67.97	49.87	96.27	-791.36	2,193.37	1,025.81	930.92	94.89	10.811	
11,200.00	7,618.00	10,910.60	7,730.00	68.04	50.37	96.27	-891.36	2,193.03	1,025.81	929.09	96.72	10.606	
11,300.00	7,618.00	11,010.60	7,730.00	68.15	51.03	96.27	-991.36	2,192.69	1,025.82	927.17	98.65	10.399	
11,400.00	7,618.00	11,110.60	7,730.00	68.30	51.84	96.27	-1,091.36	2,192.34	1,025.82	925.16	100.66	10.191	
11,500.00	7,618.00	11,210.60	7,730.00	68.50	52.77	96.27	-1,191.36	2,192.00	1,025.82	923.07	102.75	9.983	
11,600.00	7,618.00	11,310.60	7,730.00	68.75	53.78	96.27	-1,291.36	2,191.66	1,025.82	920.90	104.92	9.777	
11,700.00	7,618.00	11,410.60	7,730.00	69.06	54.87	96.27	-1,391.36	2,191.32	1,025.82	918.66	107.16	9.573	
11,800.00	7,618.00	11,510.60	7,730.00	69.44	56.01	96.27	-1,491.36	2,190.98	1,025.83	916.36	109.47	9.371	
11,900.00	7,618.00	11,610.60	7,730.00	69.88	57.20	96.27	-1,591.36	2,190.64	1,025.83	913.99	111.84	9.172	
12,000.00	7,618.00	11,710.60	7,730.00	70.39	58.43	96.27	-1,691.36	2,190.30	1,025.83	911.56	114.27	8.977	
12,100.00	7,618.00	11,810.60	7,730.00	70.97	59.69	96.27	-1,791.36	2,189.96	1,025.83	909.08	116.75	8.786	
12,200.00	7,618.00	11,910.60	7,730.00	71.63	60.98	96.27	-1,891.36	2,189.62	1,025.83	906.54	119.29	8.599	
12,300.00	7,618.00	12,010.60	7,730.00	72.35	62.29	96.27	-1,991.36	2,189.28	1,025.84	903.96	121.88	8.417	
12,400.00	7,618.00	12,110.60	7,730.00	73.15	63.63	96.27	-2,091.36	2,188.93	1,025.84	901.33	124.51	8.239	
12,500.00	7,618.00	12,210.60	7,730.00	74.01	64.99	96.27	-2,191.36	2,188.59	1,025.84	898.66	127.18	8.066	
12,600.00	7,618.00	12,310.60	7,730.00	74.93	66.37	96.27	-2,291.36	2,188.25	1,025.84	895.95	129.90	7.897	
12,700.00	7,618.00	12,410.60	7,730.00	75.91	67.77	96.27	-2,391.36	2,187.91	1,025.84	893.20	132.65	7.734	
12,800.00	7,618.00	12,510.60	7,730.00	76.95	69.18	96.27	-2,491.35	2,187.57	1,025.84	890.41	135.43	7.574	
12,900.00	7,618.00	12,610.60	7,730.00	78.04	70.61	96.27	-2,591.35	2,187.23	1,025.85	887.59	138.25	7.420	
13,000.00	7,618.00	12,710.60	7,730.00	79.16	72.05	96.27	-2,691.35	2,186.89	1,025.85	884.74	141.11	7.270	
13,100.00	7,618.00	12,810.60	7,730.00	80.33	73.50	96.27	-2,791.35	2,186.55	1,025.85	881.86	143.99	7.125	
13,200.00	7,618.00	12,910.60	7,730.00	81.54	74.97	96.27	-2,891.35	2,186.21	1,025.85	878.96	146.90	6.983	
13,300.00	7,618.00	13,010.60	7,730.00	82.78	76.45	96.27	-2,991.35	2,185.86	1,025.85	876.02	149.83	6.847	
13,400.00	7,618.00	13,110.60	7,730.00	84.05	77.94	96.27	-3,091.35	2,185.52	1,025.86	873.06	152.79	6.714	
13,500.00	7,618.00	13,210.60	7,730.00	85.35	79.44	96.27	-3,191.35	2,185.18	1,025.86	870.08	155.77	6.586	
13,600.00	7,618.00	13,310.60	7,730.00	86.67	80.95	96.27	-3,291.35	2,184.84	1,025.86	867.08	158.78	6.461	
13,700.00	7,618.00	13,410.60	7,730.00	88.02	82.47	96.27	-3,391.35	2,184.50	1,025.86	864.06	161.80	6.340	
13,800.00	7,618.00	13,510.60	7,730.00	89.38	84.00	96.27	-3,491.35	2,184.16	1,025.86	861.01	164.85	6.223	
13,900.00	7,618.00	13,610.60	7,730.00	90.77	85.54	96.27	-3,591.35	2,183.82	1,025.87	857.95	167.91	6.109	
14,000.00	7,618.00	13,710.60	7,730.00	92.17	87.08	96.27	-3,691.35	2,183.48	1,025.87	854.87	170.99	5.999	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,618.00	13,810.60	7,730.00	93.59	88.63	96.27	-3,791.35	2,183.14	1,025.87	851.78	174.09	5.893	
14,200.00	7,618.00	13,910.60	7,730.00	95.02	90.19	96.27	-3,891.35	2,182.80	1,025.87	848.67	177.20	5.789	
14,300.00	7,618.00	14,010.60	7,730.00	96.47	91.76	96.27	-3,991.35	2,182.45	1,025.87	845.54	180.33	5.689	
14,400.00	7,618.00	14,110.60	7,730.00	97.93	93.33	96.27	-4,091.35	2,182.11	1,025.88	842.40	183.48	5.591	
14,500.00	7,618.00	14,210.60	7,730.00	99.41	94.91	96.27	-4,191.34	2,181.77	1,025.88	839.25	186.63	5.497	
14,600.00	7,618.00	14,310.60	7,730.00	100.89	96.49	96.27	-4,291.34	2,181.43	1,025.88	836.08	189.80	5.405	
14,700.00	7,618.00	14,410.60	7,730.00	102.38	98.08	96.27	-4,391.34	2,181.09	1,025.88	832.90	192.98	5.316	
14,800.00	7,618.00	14,510.60	7,730.00	103.89	99.68	96.27	-4,491.34	2,180.75	1,025.88	829.71	196.17	5.230	
14,900.00	7,618.00	14,610.60	7,730.00	105.40	101.28	96.27	-4,591.34	2,180.41	1,025.88	826.51	199.37	5.146	
15,000.00	7,618.00	14,710.60	7,730.00	106.92	102.89	96.27	-4,691.34	2,180.07	1,025.89	823.30	202.59	5.064	
15,100.00	7,618.00	14,810.60	7,730.00	108.45	104.50	96.27	-4,791.34	2,179.73	1,025.89	820.08	205.81	4.985	
15,200.00	7,618.00	14,910.60	7,730.00	109.99	106.11	96.27	-4,891.34	2,179.38	1,025.89	816.85	209.04	4.908	
15,300.00	7,618.00	15,010.60	7,730.00	111.54	107.73	96.27	-4,991.34	2,179.04	1,025.89	813.61	212.28	4.833	
15,400.00	7,618.00	15,110.60	7,730.00	113.09	109.36	96.27	-5,091.34	2,178.70	1,025.89	810.36	215.54	4.760	
15,500.00	7,618.00	15,210.60	7,730.00	114.65	110.98	96.27	-5,191.34	2,178.36	1,025.90	807.10	218.79	4.689	
15,600.00	7,618.00	15,310.60	7,730.00	116.21	112.62	96.27	-5,291.34	2,178.02	1,025.90	803.84	222.06	4.620	
15,700.00	7,618.00	15,410.60	7,730.00	117.78	114.25	96.27	-5,391.34	2,177.68	1,025.90	800.57	225.33	4.553	
15,800.00	7,618.00	15,510.60	7,730.00	119.36	115.89	96.27	-5,491.34	2,177.34	1,025.90	797.29	228.62	4.487	
15,900.00	7,618.00	15,610.60	7,730.00	120.94	117.53	96.27	-5,591.34	2,177.00	1,025.90	794.00	231.90	4.424	
16,000.00	7,618.00	15,710.60	7,730.00	122.53	119.18	96.27	-5,691.34	2,176.66	1,025.91	790.71	235.20	4.362	
16,100.00	7,618.00	15,810.60	7,730.00	124.12	120.83	96.27	-5,791.34	2,176.31	1,025.91	787.41	238.50	4.301	
16,200.00	7,618.00	15,910.60	7,730.00	125.72	122.48	96.27	-5,891.34	2,175.97	1,025.91	784.10	241.81	4.243	
16,300.00	7,618.00	16,010.60	7,730.00	127.32	124.13	96.27	-5,991.33	2,175.63	1,025.91	780.79	245.12	4.185	
16,400.00	7,618.00	16,110.60	7,730.00	128.93	125.79	96.27	-6,091.33	2,175.29	1,025.91	777.47	248.44	4.129	
16,500.00	7,618.00	16,210.60	7,730.00	130.54	127.45	96.27	-6,191.33	2,174.95	1,025.92	774.15	251.77	4.075	
16,600.00	7,618.00	16,310.60	7,730.00	132.15	129.11	96.27	-6,291.33	2,174.61	1,025.92	770.82	255.09	4.022	
16,700.00	7,618.00	16,410.60	7,730.00	133.77	130.78	96.27	-6,391.33	2,174.27	1,025.92	767.49	258.43	3.970	
16,800.00	7,618.00	16,510.60	7,730.00	135.39	132.44	96.27	-6,491.33	2,173.93	1,025.92	764.15	261.77	3.919	
16,900.00	7,618.00	16,610.60	7,730.00	137.01	134.11	96.27	-6,591.33	2,173.59	1,025.92	760.81	265.11	3.870	
17,000.00	7,618.00	16,710.60	7,730.00	138.64	135.79	96.27	-6,691.33	2,173.25	1,025.92	757.46	268.46	3.822	
17,100.00	7,618.00	16,810.60	7,730.00	140.27	137.46	96.27	-6,791.33	2,172.90	1,025.93	754.11	271.81	3.774	
17,200.00	7,618.00	16,910.60	7,730.00	141.91	139.14	96.27	-6,891.33	2,172.56	1,025.93	750.76	275.17	3.728	
17,300.00	7,618.00	17,010.60	7,730.00	143.55	140.82	96.27	-6,991.33	2,172.22	1,025.93	747.40	278.53	3.683	
17,400.00	7,618.00	17,110.60	7,730.00	145.19	142.50	96.27	-7,091.33	2,171.88	1,025.93	744.04	281.90	3.639	
17,500.00	7,618.00	17,210.60	7,730.00	146.83	144.18	96.27	-7,191.33	2,171.54	1,025.93	740.67	285.26	3.596	
17,600.00	7,618.00	17,310.60	7,730.00	148.48	145.86	96.27	-7,291.33	2,171.20	1,025.94	737.30	288.64	3.554	
17,700.00	7,618.00	17,410.60	7,730.00	150.13	147.55	96.27	-7,391.33	2,170.86	1,025.94	733.93	292.01	3.513	
17,800.00	7,618.00	17,510.60	7,730.00	151.78	149.24	96.27	-7,491.33	2,170.52	1,025.94	730.55	295.39	3.473	
17,900.00	7,618.00	17,610.60	7,730.00	153.43	150.93	96.27	-7,591.33	2,170.18	1,025.94	727.17	298.77	3.434	
18,000.00	7,618.00	17,710.60	7,730.00	155.09	152.62	96.27	-7,691.32	2,169.83	1,025.94	723.79	302.16	3.395	
18,100.00	7,618.00	17,810.60	7,730.00	156.75	154.31	96.27	-7,791.32	2,169.49	1,025.95	720.40	305.54	3.358	
18,200.00	7,618.00	17,910.60	7,730.00	158.41	156.01	96.27	-7,891.32	2,169.15	1,025.95	717.01	308.93	3.321	
18,300.00	7,618.00	18,010.60	7,730.00	160.07	157.70	96.27	-7,991.32	2,168.81	1,025.95	713.62	312.33	3.285	
18,400.00	7,618.00	18,110.60	7,730.00	161.74	159.40	96.27	-8,091.32	2,168.47	1,025.95	710.23	315.72	3.250	
18,500.00	7,618.00	18,210.60	7,730.00	163.41	161.10	96.27	-8,191.32	2,168.13	1,025.95	706.83	319.12	3.215	
18,600.00	7,618.00	18,310.60	7,730.00	165.08	162.80	96.27	-8,291.32	2,167.79	1,025.96	703.43	322.53	3.181	
18,700.00	7,618.00	18,410.60	7,730.00	166.75	164.50	96.27	-8,391.32	2,167.45	1,025.96	700.03	325.93	3.148	
18,711.30	7,618.00	18,421.90	7,730.00	166.94	164.69	96.27	-8,402.62	2,167.41	1,025.96	699.64	326.31	3.144	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-90.00	0.00	-19.88	19.88				
100.00	100.00	100.00	100.00	0.13	0.13	-90.00	0.00	-19.88	19.88	19.61	0.27	73.944	
200.00	200.00	200.00	200.00	0.49	0.49	-90.00	0.00	-19.88	19.88	18.89	0.99	20.167	
300.00	300.00	300.00	300.00	0.85	0.85	-90.00	0.00	-19.88	19.88	18.18	1.70	11.675	
400.00	400.00	400.00	400.00	1.21	1.21	-90.00	0.00	-19.88	19.88	17.46	2.42	8.216	
500.00	500.00	500.00	500.00	1.57	1.57	-90.00	0.00	-19.88	19.88	16.74	3.14	6.338	
600.00	600.00	600.00	600.00	1.93	1.93	-90.00	0.00	-19.88	19.88	16.03	3.85	5.159	
700.00	700.00	700.00	700.00	2.29	2.29	-90.00	0.00	-19.88	19.88	15.31	4.57	4.350	
800.00	800.00	800.00	800.00	2.64	2.64	-90.00	0.00	-19.88	19.88	14.59	5.29	3.760	
900.00	900.00	900.00	900.00	3.00	3.00	-90.00	0.00	-19.88	19.88	13.88	6.00	3.311	CC, ES
1,000.00	999.98	1,000.02	999.98	3.36	3.36	-149.71	0.00	-19.88	21.37	14.65	6.72	3.181	
1,100.00	1,099.84	1,099.84	1,099.84	3.71	3.72	-155.49	0.00	-19.88	26.02	18.59	7.43	3.503	
1,200.00	1,199.45	1,200.50	1,200.48	4.07	4.08	-160.29	1.11	-18.51	32.57	24.43	8.14	4.003	
1,300.00	1,298.70	1,301.41	1,301.24	4.44	4.43	-162.93	4.45	-14.37	39.36	30.53	8.84	4.455	
1,400.00	1,397.47	1,402.56	1,402.00	4.82	4.80	-164.33	10.03	-7.46	46.30	36.77	9.53	4.858	
1,500.00	1,495.62	1,503.96	1,502.62	5.22	5.17	-164.96	17.87	2.24	53.33	43.11	10.23	5.216	
1,600.00	1,593.06	1,605.59	1,602.97	5.65	5.55	-165.08	27.96	14.73	60.43	49.52	10.92	5.535	
1,700.00	1,689.64	1,707.46	1,702.91	6.11	5.96	-164.85	40.32	30.03	67.59	55.97	11.61	5.819	
1,800.00	1,785.27	1,809.56	1,802.33	6.61	6.39	-164.37	54.94	48.13	74.79	62.48	12.32	6.073	
1,900.00	1,879.82	1,911.89	1,901.07	7.15	6.85	-163.71	71.81	69.02	82.05	69.02	13.03	6.297	
2,000.00	1,973.17	2,014.45	1,999.00	7.73	7.35	-162.90	90.94	92.69	89.35	75.59	13.76	6.494	
2,100.00	2,065.21	2,117.24	2,096.00	8.37	7.89	-161.98	112.30	119.14	96.71	82.19	14.51	6.663	
2,200.00	2,155.84	2,220.24	2,191.91	9.07	8.48	-160.98	135.89	148.34	104.12	88.82	15.30	6.805	
2,300.00	2,244.94	2,323.47	2,286.61	9.82	9.13	-159.91	161.69	180.28	111.59	95.46	16.13	6.917	
2,400.00	2,332.39	2,426.90	2,379.96	10.64	9.83	-158.79	189.67	214.92	119.12	102.10	17.02	7.001	
2,500.00	2,418.11	2,530.54	2,471.82	11.53	10.60	-157.63	219.82	252.24	126.71	108.75	17.96	7.054	
2,558.91	2,467.74	2,591.68	2,525.19	12.08	11.07	-156.93	238.58	275.46	131.21	112.66	18.56	7.071	
2,600.00	2,502.13	2,632.65	2,560.72	12.47	11.41	-156.49	251.38	291.31	134.37	115.34	19.03	7.061	
2,700.00	2,585.83	2,732.32	2,647.18	13.45	12.24	-155.51	282.54	329.88	142.08	121.86	20.21	7.028	
2,800.00	2,669.53	2,831.99	2,733.65	14.44	13.08	-154.62	313.70	368.46	149.82	128.38	21.44	6.988	
2,900.00	2,753.22	2,931.67	2,820.11	15.46	13.95	-153.83	344.86	407.03	157.60	134.89	22.70	6.941	
3,000.00	2,836.92	3,031.34	2,906.58	16.48	14.83	-153.11	376.02	445.60	165.40	141.40	24.00	6.892	
3,100.00	2,920.62	3,131.02	2,993.04	17.52	15.72	-152.45	407.18	484.18	173.23	147.90	25.32	6.840	
3,200.00	3,004.32	3,230.69	3,079.51	18.56	16.62	-151.85	438.34	522.75	181.07	154.40	26.68	6.788	
3,300.00	3,088.01	3,330.37	3,165.97	19.61	17.53	-151.30	469.50	561.32	188.94	160.89	28.05	6.736	
3,400.00	3,171.71	3,430.04	3,252.44	20.67	18.45	-150.79	500.66	599.90	196.82	167.38	29.44	6.686	
3,500.00	3,255.41	3,529.72	3,338.90	21.73	19.37	-150.33	531.82	638.47	204.72	173.87	30.85	6.636	
3,600.00	3,339.10	3,629.39	3,425.37	22.80	20.30	-149.89	562.98	677.04	212.63	180.35	32.28	6.588	
3,700.00	3,422.80	3,729.06	3,511.83	23.87	21.23	-149.49	594.14	715.62	220.55	186.83	33.72	6.541	
3,800.00	3,506.50	3,828.74	3,598.30	24.94	22.17	-149.12	625.30	754.19	228.48	193.31	35.17	6.497	
3,900.00	3,590.20	3,928.41	3,684.76	26.02	23.11	-148.77	656.46	792.76	236.41	199.78	36.63	6.454	
4,000.00	3,673.89	4,028.09	3,771.22	27.10	24.05	-148.45	687.62	831.34	244.36	206.26	38.10	6.413	
4,100.00	3,757.59	4,127.76	3,857.69	28.18	24.99	-148.14	718.78	869.91	252.32	212.73	39.59	6.374	
4,200.00	3,841.29	4,227.44	3,944.15	29.26	25.94	-147.85	749.94	908.48	260.28	219.20	41.08	6.336	
4,300.00	3,924.99	4,327.11	4,030.62	30.35	26.89	-147.58	781.10	947.06	268.24	225.67	42.57	6.301	
4,400.00	4,008.68	4,426.79	4,117.08	31.44	27.85	-147.33	812.26	985.63	276.22	232.14	44.08	6.266	
4,500.00	4,092.38	4,526.46	4,203.55	32.52	28.80	-147.09	843.42	1,024.20	284.19	238.60	45.59	6.234	
4,600.00	4,176.08	4,626.13	4,290.01	33.62	29.75	-146.86	874.58	1,062.78	292.18	245.07	47.11	6.202	
4,700.00	4,259.77	4,725.81	4,376.48	34.71	30.71	-146.65	905.74	1,101.35	300.16	251.53	48.63	6.172	
4,800.00	4,343.47	4,825.48	4,462.94	35.80	31.67	-146.45	936.90	1,139.92	308.15	258.00	50.16	6.144	
4,900.00	4,427.17	4,925.16	4,549.41	36.89	32.63	-146.25	968.06	1,178.50	316.15	264.46	51.69	6.117	
5,000.00	4,510.87	5,024.83	4,635.87	37.99	33.59	-146.07	999.22	1,217.07	324.14	270.92	53.22	6.090	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	5,124.51	4,722.34	39.08	34.55	-145.89	1,030.38	1,255.64	332.14	277.38	54.76	6.065	
5,200.00	4,678.26	5,224.18	4,808.80	40.18	35.51	-145.73	1,061.54	1,294.22	340.15	283.85	56.30	6.041	
5,300.00	4,761.96	5,323.86	4,895.27	41.28	36.48	-145.57	1,092.70	1,332.79	348.15	290.31	57.85	6.018	
5,400.00	4,845.66	5,423.53	4,981.73	42.37	37.44	-145.42	1,123.86	1,371.36	356.16	296.77	59.40	5.996	
5,500.00	4,929.35	5,523.20	5,068.20	43.47	38.40	-145.27	1,155.02	1,409.94	364.17	303.23	60.95	5.975	
5,600.00	5,013.05	5,622.88	5,154.66	44.57	39.37	-145.13	1,186.18	1,448.51	372.19	309.69	62.50	5.955	
5,700.00	5,096.75	5,722.55	5,241.12	45.67	40.34	-145.00	1,217.34	1,487.08	380.20	316.15	64.06	5.935	
5,800.00	5,180.45	5,822.23	5,327.59	46.77	41.30	-144.87	1,248.50	1,525.66	388.22	322.61	65.62	5.917	
5,900.00	5,264.14	5,921.90	5,414.05	47.87	42.27	-144.75	1,279.66	1,564.23	396.24	329.07	67.18	5.899	
6,000.00	5,347.84	6,021.58	5,500.52	48.97	43.24	-144.63	1,310.82	1,602.80	404.26	335.52	68.74	5.881	
6,100.00	5,431.54	6,121.25	5,586.98	50.07	44.21	-144.52	1,341.98	1,641.38	412.28	341.98	70.30	5.864	
6,200.00	5,515.23	6,220.93	5,673.45	51.17	45.17	-144.41	1,373.14	1,679.95	420.31	348.44	71.87	5.848	
6,300.00	5,598.93	6,320.60	5,759.91	52.27	46.14	-144.31	1,404.30	1,718.52	428.33	354.90	73.43	5.833	
6,400.00	5,682.63	6,420.27	5,846.38	53.38	47.11	-144.21	1,435.46	1,757.10	436.36	361.36	75.00	5.818	
6,500.00	5,766.33	6,519.95	5,932.84	54.48	48.08	-144.11	1,466.62	1,795.67	444.39	367.82	76.57	5.803	
6,600.00	5,850.02	6,619.62	6,019.31	55.58	49.05	-144.01	1,497.79	1,834.24	452.42	374.27	78.15	5.789	
6,700.00	5,933.72	6,719.30	6,105.77	56.68	50.02	-143.92	1,528.95	1,872.82	460.45	380.73	79.72	5.776	
6,800.00	6,017.42	6,818.97	6,192.24	57.79	50.99	-143.84	1,560.11	1,911.39	468.48	387.19	81.29	5.763	
6,900.00	6,101.12	6,918.65	6,278.70	58.89	51.96	-143.75	1,591.27	1,949.96	476.51	393.65	82.87	5.750	
7,000.00	6,184.81	7,018.32	6,365.17	59.99	52.94	-143.67	1,622.43	1,988.54	484.55	400.10	84.44	5.738	
7,100.00	6,268.51	7,118.00	6,451.63	61.10	53.91	-143.59	1,653.59	2,027.11	492.58	406.56	86.02	5.726	
7,200.00	6,352.21	7,217.67	6,538.09	62.20	54.88	-143.52	1,684.75	2,065.68	500.62	413.02	87.60	5.715	
7,300.00	6,435.90	7,317.34	6,624.56	63.31	55.85	-143.44	1,715.91	2,104.26	508.66	419.48	89.18	5.704	
7,400.00	6,519.60	7,417.02	6,711.02	64.41	56.82	-143.37	1,747.07	2,142.83	516.69	425.93	90.76	5.693	
7,500.00	6,603.30	7,516.69	6,797.49	65.51	57.79	-143.30	1,778.23	2,181.40	524.73	432.39	92.34	5.683	
7,600.00	6,687.00	7,616.37	6,883.95	66.62	58.77	-143.23	1,809.39	2,219.98	532.77	438.85	93.92	5.672	
7,700.00	6,770.69	7,720.13	6,974.28	67.72	59.77	-143.29	1,840.70	2,260.27	540.69	445.29	95.40	5.668	
7,800.00	6,854.39	7,829.72	7,072.98	68.83	60.69	-145.03	1,857.96	2,304.24	547.06	452.11	94.95	5.762	
7,900.00	6,938.09	7,930.05	7,164.50	69.93	61.33	-148.43	1,855.47	2,344.95	553.02	460.59	92.43	5.983	
7,933.18	6,965.86	7,960.49	7,192.05	70.30	61.49	-149.78	1,851.26	2,357.19	555.39	464.09	91.30	6.083	
7,950.00	6,980.00	7,975.45	7,205.50	70.49	61.56	-152.93	1,848.60	2,363.17	556.73	466.03	90.70	6.138	
8,000.00	7,022.68	8,018.94	7,244.20	71.01	61.73	-162.94	1,838.71	2,380.35	561.38	472.34	89.05	6.304	
8,050.00	7,066.06	8,061.14	7,280.99	71.51	61.87	-173.78	1,826.06	2,396.68	566.90	479.34	87.56	6.475	
8,100.00	7,109.82	8,102.21	7,315.89	71.97	61.97	174.90	1,810.95	2,412.15	573.15	486.92	86.24	6.646	
8,150.00	7,153.63	8,142.29	7,348.91	72.38	62.03	163.59	1,793.60	2,426.79	580.00	494.93	85.07	6.818	
8,200.00	7,197.14	8,181.51	7,380.08	72.74	62.06	152.79	1,774.22	2,440.59	587.30	503.24	84.07	6.986	
8,250.00	7,240.04	8,219.97	7,409.40	73.05	62.07	142.91	1,752.99	2,453.56	594.91	511.72	83.20	7.151	
8,300.00	7,281.99	8,257.77	7,436.89	73.31	62.05	134.14	1,730.07	2,465.71	602.69	520.24	82.45	7.309	
8,350.00	7,322.67	8,295.00	7,462.56	73.52	62.02	126.51	1,705.62	2,477.05	610.50	528.67	81.83	7.461	
8,400.00	7,361.77	8,331.72	7,486.41	73.68	61.96	119.95	1,679.77	2,487.57	618.21	536.90	81.31	7.603	
8,450.00	7,399.01	8,368.00	7,508.44	73.78	61.88	114.36	1,652.63	2,497.28	625.71	544.81	80.90	7.734	
8,500.00	7,434.08	8,403.89	7,528.65	73.85	61.80	109.60	1,624.34	2,506.18	632.88	552.28	80.61	7.852	
8,550.00	7,466.74	8,439.46	7,547.04	73.87	61.69	105.56	1,594.99	2,514.27	639.64	559.22	80.42	7.953	
8,600.00	7,496.72	8,474.75	7,563.61	73.85	61.57	102.16	1,564.71	2,521.53	645.88	565.52	80.36	8.038	
8,650.00	7,523.80	8,509.79	7,578.35	73.79	61.45	99.31	1,533.58	2,527.99	651.54	571.12	80.42	8.102	
8,700.00	7,547.77	8,544.63	7,591.26	73.70	61.31	96.95	1,501.72	2,533.62	656.53	575.93	80.60	8.145	
8,750.00	7,568.45	8,579.30	7,602.32	73.58	61.16	95.03	1,469.22	2,538.44	660.82	579.89	80.92	8.166	
8,800.00	7,585.69	8,613.85	7,611.54	73.43	61.01	93.52	1,436.18	2,542.43	664.34	582.97	81.37	8.165	
8,850.00	7,599.35	8,650.00	7,619.23	73.26	60.84	92.37	1,401.01	2,545.73	667.06	585.26	81.79	8.155	
8,900.00	7,609.33	8,682.66	7,624.41	73.07	60.68	91.59	1,368.85	2,547.93	668.94	586.31	82.63	8.096	
8,950.00	7,615.55	8,716.99	7,628.05	72.87	60.52	91.13	1,334.75	2,549.43	669.98	586.56	83.43	8.031	
9,000.00	7,617.97	8,750.00	7,629.78	72.65	60.35	91.01	1,301.79	2,550.09	670.17	585.73	84.44	7.937	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,006.60	7,618.00	8,755.84	7,629.91	72.62	60.32	91.02	1,295.96	2,550.13	670.12	585.69	84.44	7.937	
9,044.13	7,618.00	8,788.53	7,630.00	72.45	60.16	91.03	1,263.27	2,550.06	670.07	585.59	84.48	7.932	
9,100.00	7,618.00	8,844.40	7,630.00	72.22	59.88	91.03	1,207.40	2,549.87	670.07	586.18	83.89	7.988	
9,200.00	7,618.00	8,944.40	7,630.00	71.80	59.40	91.03	1,107.40	2,549.53	670.06	587.13	82.93	8.080	
9,300.00	7,618.00	9,044.40	7,630.00	71.41	58.95	91.03	1,007.40	2,549.20	670.06	587.95	82.11	8.160	
9,400.00	7,618.00	9,144.40	7,630.00	71.04	58.52	91.03	907.40	2,548.86	670.06	588.61	81.44	8.227	
9,500.00	7,618.00	9,244.40	7,630.00	70.68	58.12	91.03	807.40	2,548.52	670.06	589.13	80.92	8.280	
9,600.00	7,618.00	9,344.40	7,630.00	70.35	57.74	91.03	707.40	2,548.19	670.05	589.50	80.55	8.318	
9,700.00	7,618.00	9,444.40	7,630.00	70.04	57.38	91.03	607.40	2,547.85	670.05	589.71	80.34	8.340	
9,800.00	7,618.00	9,544.40	7,630.00	69.75	57.05	91.03	507.40	2,547.51	670.05	589.77	80.28	8.347	
9,900.00	7,618.00	9,644.40	7,630.00	69.47	56.74	91.03	407.41	2,547.18	670.05	589.67	80.37	8.337	
10,000.00	7,618.00	9,744.40	7,630.00	69.22	56.45	91.03	307.41	2,546.84	670.04	589.42	80.62	8.311	
10,100.00	7,618.00	9,844.40	7,630.00	68.99	56.18	91.03	207.41	2,546.50	670.04	589.02	81.03	8.269	
10,200.00	7,618.00	9,944.40	7,630.00	68.78	55.94	91.03	107.41	2,546.17	670.04	588.46	81.58	8.213	
10,300.00	7,618.00	10,044.40	7,630.00	68.59	55.73	91.03	7.41	2,545.83	670.04	587.75	82.28	8.143	
10,400.00	7,618.00	10,144.40	7,630.00	68.42	55.54	91.03	-92.59	2,545.49	670.03	586.90	83.13	8.060	
10,500.00	7,618.00	10,244.40	7,630.00	68.28	55.39	91.03	-192.59	2,545.16	670.03	585.91	84.12	7.965	
10,600.00	7,618.00	10,344.40	7,630.00	68.16	55.26	91.03	-292.59	2,544.82	670.03	584.79	85.24	7.860	
10,700.00	7,618.00	10,444.40	7,630.00	68.06	55.18	91.03	-392.59	2,544.49	670.02	583.53	86.49	7.746	
10,800.00	7,618.00	10,544.40	7,630.00	67.99	55.14	91.03	-492.59	2,544.15	670.02	582.15	87.87	7.625	
10,900.00	7,618.00	10,644.40	7,630.00	67.95	55.15	91.03	-592.59	2,543.81	670.02	580.65	89.37	7.497	
11,000.00	7,618.00	10,744.40	7,630.00	67.95	55.21	91.03	-692.59	2,543.48	670.02	579.04	90.98	7.365	
11,100.00	7,618.00	10,844.40	7,630.00	67.97	55.35	91.03	-792.59	2,543.14	670.01	577.32	92.69	7.228	
11,200.00	7,618.00	10,944.40	7,630.00	68.04	55.57	91.03	-892.59	2,542.80	670.01	575.50	94.51	7.090	
11,300.00	7,618.00	11,044.40	7,630.00	68.15	55.89	91.03	-992.59	2,542.47	670.01	573.59	96.42	6.949	
11,400.00	7,618.00	11,144.40	7,630.00	68.30	56.31	91.03	-1,092.59	2,542.13	670.01	571.59	98.42	6.808	
11,500.00	7,618.00	11,244.40	7,630.00	68.50	56.85	91.03	-1,192.59	2,541.79	670.00	569.50	100.51	6.666	
11,600.00	7,618.00	11,344.40	7,630.00	68.75	57.50	91.03	-1,292.59	2,541.46	670.00	567.33	102.67	6.526	
11,700.00	7,618.00	11,444.40	7,630.00	69.06	58.25	91.03	-1,392.58	2,541.12	670.00	565.09	104.91	6.386	
11,800.00	7,618.00	11,544.40	7,630.00	69.44	59.11	91.03	-1,492.58	2,540.78	670.00	562.78	107.22	6.249	
11,900.00	7,618.00	11,644.40	7,630.00	69.88	60.05	91.03	-1,592.58	2,540.45	669.99	560.40	109.59	6.113	
12,000.00	7,618.00	11,744.40	7,630.00	70.39	61.07	91.03	-1,692.58	2,540.11	669.99	557.96	112.03	5.980	
12,100.00	7,618.00	11,844.40	7,630.00	70.97	62.16	91.03	-1,792.58	2,539.77	669.99	555.47	114.52	5.850	
12,200.00	7,618.00	11,944.40	7,630.00	71.63	63.30	91.03	-1,892.58	2,539.44	669.99	552.92	117.07	5.723	
12,300.00	7,618.00	12,044.40	7,630.00	72.35	64.48	91.03	-1,992.58	2,539.10	669.98	550.32	119.67	5.599	
12,400.00	7,618.00	12,144.40	7,630.00	73.15	65.71	91.03	-2,092.58	2,538.76	669.98	547.67	122.31	5.478	
12,500.00	7,618.00	12,244.40	7,630.00	74.01	66.97	91.03	-2,192.58	2,538.43	669.98	544.98	125.00	5.360	
12,600.00	7,618.00	12,344.40	7,630.00	74.93	68.26	91.03	-2,292.58	2,538.09	669.98	542.25	127.73	5.245	
12,700.00	7,618.00	12,444.40	7,630.00	75.91	69.58	91.03	-2,392.58	2,537.75	669.97	539.48	130.49	5.134	
12,800.00	7,618.00	12,544.40	7,630.00	76.95	70.92	91.03	-2,492.58	2,537.42	669.97	536.67	133.30	5.026	
12,900.00	7,618.00	12,644.40	7,630.00	78.04	72.29	91.03	-2,592.58	2,537.08	669.97	533.83	136.14	4.921	
13,000.00	7,618.00	12,744.40	7,630.00	79.16	73.68	91.03	-2,692.58	2,536.74	669.96	530.96	139.01	4.820	
13,100.00	7,618.00	12,844.40	7,630.00	80.33	75.08	91.03	-2,792.58	2,536.41	669.96	528.06	141.91	4.721	
13,200.00	7,618.00	12,944.40	7,630.00	81.54	76.50	91.03	-2,892.58	2,536.07	669.96	525.13	144.83	4.626	
13,300.00	7,618.00	13,044.40	7,630.00	82.78	77.93	91.03	-2,992.58	2,535.74	669.96	522.17	147.79	4.533	
13,400.00	7,618.00	13,144.40	7,630.00	84.05	79.38	91.03	-3,092.58	2,535.40	669.95	519.19	150.77	4.444	
13,500.00	7,618.00	13,244.40	7,630.00	85.35	80.84	91.03	-3,192.57	2,535.06	669.95	516.18	153.77	4.357	
13,600.00	7,618.00	13,344.40	7,630.00	86.67	82.32	91.03	-3,292.57	2,534.73	669.95	513.15	156.79	4.273	
13,700.00	7,618.00	13,444.40	7,630.00	88.02	83.80	91.03	-3,392.57	2,534.39	669.95	510.11	159.84	4.191	
13,800.00	7,618.00	13,544.40	7,630.00	89.38	85.30	91.03	-3,492.57	2,534.05	669.94	507.04	162.91	4.112	
13,900.00	7,618.00	13,644.40	7,630.00	90.77	86.81	91.03	-3,592.57	2,533.72	669.94	503.95	165.99	4.036	
14,000.00	7,618.00	13,744.40	7,630.00	92.17	88.32	91.03	-3,692.57	2,533.38	669.94	500.85	169.09	3.962	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,618.00	13,844.40	7,630.00	93.59	89.85	91.03	-3,792.57	2,533.04	669.94	497.73	172.21	3.890	
14,200.00	7,618.00	13,944.40	7,630.00	95.02	91.38	91.03	-3,892.57	2,532.71	669.93	494.59	175.34	3.821	
14,300.00	7,618.00	14,044.40	7,630.00	96.47	92.92	91.03	-3,992.57	2,532.37	669.93	491.44	178.49	3.753	
14,400.00	7,618.00	14,144.40	7,630.00	97.93	94.47	91.03	-4,092.57	2,532.03	669.93	488.27	181.66	3.688	
14,500.00	7,618.00	14,244.40	7,630.00	99.41	96.03	91.03	-4,192.57	2,531.70	669.93	485.09	184.83	3.624	
14,600.00	7,618.00	14,344.40	7,630.00	100.89	97.59	91.03	-4,292.57	2,531.36	669.92	481.90	188.02	3.563	
14,700.00	7,618.00	14,444.40	7,630.00	102.38	99.16	91.03	-4,392.57	2,531.02	669.92	478.70	191.22	3.503	
14,800.00	7,618.00	14,544.40	7,630.00	103.89	100.73	91.03	-4,492.57	2,530.69	669.92	475.48	194.44	3.445	
14,900.00	7,618.00	14,644.40	7,630.00	105.40	102.31	91.03	-4,592.57	2,530.35	669.91	472.25	197.66	3.389	
15,000.00	7,618.00	14,744.40	7,630.00	106.92	103.90	91.03	-4,692.57	2,530.01	669.91	469.02	200.90	3.335	
15,100.00	7,618.00	14,844.40	7,630.00	108.45	105.49	91.03	-4,792.57	2,529.68	669.91	465.77	204.14	3.282	
15,200.00	7,618.00	14,944.40	7,630.00	109.99	107.09	91.03	-4,892.56	2,529.34	669.91	462.51	207.40	3.230	
15,300.00	7,618.00	15,044.40	7,630.00	111.54	108.69	91.03	-4,992.56	2,529.00	669.90	459.25	210.66	3.180	
15,400.00	7,618.00	15,144.40	7,630.00	113.09	110.30	91.03	-5,092.56	2,528.67	669.90	455.97	213.93	3.131	
15,500.00	7,618.00	15,244.40	7,630.00	114.65	111.91	91.03	-5,192.56	2,528.33	669.90	452.69	217.21	3.084	
15,600.00	7,618.00	15,344.40	7,630.00	116.21	113.52	91.03	-5,292.56	2,528.00	669.90	449.40	220.50	3.038	
15,700.00	7,618.00	15,444.40	7,630.00	117.78	115.14	91.03	-5,392.56	2,527.66	669.89	446.10	223.79	2.993	
15,800.00	7,618.00	15,544.40	7,630.00	119.36	116.77	91.03	-5,492.56	2,527.32	669.89	442.80	227.09	2.950	
15,900.00	7,618.00	15,644.40	7,630.00	120.94	118.40	91.03	-5,592.56	2,526.99	669.89	439.48	230.40	2.907	
16,000.00	7,618.00	15,744.40	7,630.00	122.53	120.03	91.03	-5,692.56	2,526.65	669.89	436.17	233.72	2.866	
16,100.00	7,618.00	15,844.40	7,630.00	124.12	121.66	91.03	-5,792.56	2,526.31	669.88	432.84	237.04	2.826	
16,200.00	7,618.00	15,944.40	7,630.00	125.72	123.30	91.03	-5,892.56	2,525.98	669.88	429.51	240.37	2.787	
16,300.00	7,618.00	16,044.40	7,630.00	127.32	124.94	91.03	-5,992.56	2,525.64	669.88	426.17	243.70	2.749	
16,400.00	7,618.00	16,144.40	7,630.00	128.93	126.58	91.03	-6,092.56	2,525.30	669.88	422.83	247.04	2.712	
16,500.00	7,618.00	16,244.40	7,630.00	130.54	128.23	91.03	-6,192.56	2,524.97	669.87	419.48	250.39	2.675	
16,600.00	7,618.00	16,344.40	7,630.00	132.15	129.88	91.03	-6,292.56	2,524.63	669.87	416.13	253.74	2.640	
16,700.00	7,618.00	16,444.40	7,630.00	133.77	131.53	91.03	-6,392.56	2,524.29	669.87	412.77	257.09	2.606	
16,800.00	7,618.00	16,544.40	7,630.00	135.39	133.19	91.03	-6,492.56	2,523.96	669.87	409.41	260.45	2.572	
16,900.00	7,618.00	16,644.40	7,630.00	137.01	134.85	91.03	-6,592.56	2,523.62	669.86	406.05	263.82	2.539	
17,000.00	7,618.00	16,744.40	7,630.00	138.64	136.51	91.03	-6,692.55	2,523.28	669.86	402.67	267.19	2.507	
17,100.00	7,618.00	16,844.40	7,630.00	140.27	138.17	91.03	-6,792.55	2,522.95	669.86	399.30	270.56	2.476	
17,200.00	7,618.00	16,944.40	7,630.00	141.91	139.84	91.03	-6,892.55	2,522.61	669.85	395.92	273.94	2.445	
17,300.00	7,618.00	17,044.40	7,630.00	143.55	141.51	91.03	-6,992.55	2,522.27	669.85	392.54	277.32	2.415	
17,400.00	7,618.00	17,144.40	7,630.00	145.19	143.18	91.03	-7,092.55	2,521.94	669.85	389.15	280.70	2.386	
17,500.00	7,618.00	17,244.40	7,630.00	146.83	144.85	91.03	-7,192.55	2,521.60	669.85	385.76	284.09	2.358	
17,600.00	7,618.00	17,344.40	7,630.00	148.48	146.52	91.03	-7,292.55	2,521.26	669.84	382.36	287.48	2.330	
17,700.00	7,618.00	17,444.40	7,630.00	150.13	148.20	91.03	-7,392.55	2,520.93	669.84	378.97	290.88	2.303	
17,800.00	7,618.00	17,544.40	7,630.00	151.78	149.88	91.03	-7,492.55	2,520.59	669.84	375.56	294.27	2.276	
17,900.00	7,618.00	17,644.40	7,630.00	153.43	151.56	91.03	-7,592.55	2,520.25	669.84	372.16	297.68	2.250	
18,000.00	7,618.00	17,744.40	7,630.00	155.09	153.24	91.03	-7,692.55	2,519.92	669.83	368.75	301.08	2.225	
18,100.00	7,618.00	17,844.40	7,630.00	156.75	154.92	91.03	-7,792.55	2,519.58	669.83	365.34	304.49	2.200	
18,200.00	7,618.00	17,944.40	7,630.00	158.41	156.61	91.03	-7,892.55	2,519.25	669.83	361.93	307.90	2.175	
18,300.00	7,618.00	18,044.40	7,630.00	160.07	158.30	91.03	-7,992.55	2,518.91	669.83	358.51	311.31	2.152	
18,400.00	7,618.00	18,144.40	7,630.00	161.74	159.99	91.03	-8,092.55	2,518.57	669.82	355.10	314.73	2.128	
18,500.00	7,618.00	18,244.40	7,630.00	163.41	161.68	91.03	-8,192.55	2,518.24	669.82	351.67	318.15	2.105	
18,600.00	7,618.00	18,344.40	7,630.00	165.08	163.37	91.03	-8,292.55	2,517.90	669.82	348.25	321.57	2.083	
18,700.00	7,618.00	18,444.40	7,630.00	166.75	165.06	91.03	-8,392.55	2,517.56	669.82	344.83	324.99	2.061	
18,711.30	7,618.00	18,455.70	7,630.00	166.94	165.25	91.03	-8,403.85	2,517.52	669.82	344.44	325.38	2.059	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-90.00	0.00	-9.80	9.80				
100.00	100.00	100.00	100.00	0.13	0.13	-90.00	0.00	-9.80	9.80	9.53	0.27	36.451	
200.00	200.00	200.00	200.00	0.49	0.49	-90.00	0.00	-9.80	9.80	8.81	0.99	9.941	
300.00	300.00	300.00	300.00	0.85	0.85	-90.00	0.00	-9.80	9.80	8.10	1.70	5.755	
400.00	400.00	400.00	400.00	1.21	1.21	-90.00	0.00	-9.80	9.80	7.38	2.42	4.050	
500.00	500.00	500.00	500.00	1.57	1.57	-90.00	0.00	-9.80	9.80	6.66	3.14	3.124	
600.00	600.00	600.00	600.00	1.93	1.93	-90.00	0.00	-9.80	9.80	5.95	3.85	2.543	
700.00	700.00	700.00	700.00	2.29	2.29	-90.00	0.00	-9.80	9.80	5.23	4.57	2.144	
800.00	800.00	800.00	800.00	2.64	2.64	-90.00	0.00	-9.80	9.80	4.51	5.29	1.853	
900.00	900.00	900.00	900.00	3.00	3.00	-90.00	0.00	-9.80	9.80	3.80	6.00	1.632	CC, ES
1,000.00	999.98	999.98	999.98	3.36	3.36	-151.97	0.00	-9.80	11.31	4.59	6.72	1.683	
1,100.00	1,099.84	1,100.32	1,100.30	3.71	3.72	-158.18	1.02	-8.37	14.51	7.08	7.42	1.955	
1,200.00	1,199.45	1,200.78	1,200.62	4.07	4.07	-161.62	4.07	-4.07	17.85	9.74	8.12	2.199	
1,300.00	1,298.70	1,301.37	1,300.81	4.44	4.43	-163.55	9.17	3.11	21.27	12.46	8.81	2.415	
1,400.00	1,397.47	1,402.08	1,400.76	4.82	4.80	-164.58	16.31	13.17	24.74	15.24	9.50	2.604	
1,500.00	1,495.62	1,502.90	1,500.32	5.22	5.19	-165.03	25.49	26.10	28.22	18.04	10.18	2.771	
1,600.00	1,593.06	1,603.85	1,599.39	5.65	5.59	-165.10	36.71	41.90	31.72	20.85	10.87	2.918	
1,700.00	1,689.64	1,704.91	1,697.82	6.11	6.02	-164.89	49.96	60.56	35.23	23.67	11.56	3.048	
1,800.00	1,785.27	1,806.10	1,795.50	6.61	6.48	-164.48	65.23	82.06	38.74	26.49	12.25	3.162	
1,900.00	1,879.82	1,907.39	1,892.30	7.15	6.98	-163.92	82.51	106.39	42.26	29.30	12.95	3.262	
2,000.00	1,973.17	2,008.80	1,988.08	7.73	7.52	-163.24	101.78	133.53	45.78	32.11	13.68	3.348	
2,100.00	2,065.21	2,110.33	2,082.74	8.37	8.11	-162.48	123.03	163.45	49.31	34.89	14.42	3.420	
2,200.00	2,155.84	2,211.96	2,176.13	9.07	8.75	-161.64	146.23	196.13	52.84	37.64	15.19	3.478	
2,300.00	2,244.94	2,313.71	2,268.15	9.82	9.45	-160.75	171.36	231.52	56.37	40.37	16.00	3.523	
2,400.00	2,332.39	2,415.56	2,358.65	10.64	10.22	-159.80	198.40	269.59	59.91	43.05	16.86	3.553	
2,500.00	2,418.11	2,517.51	2,447.53	11.53	11.04	-158.82	227.31	310.31	63.45	45.67	17.78	3.569	
2,558.91	2,467.74	2,576.39	2,498.32	12.08	11.54	-158.44	244.56	334.60	66.07	47.66	18.41	3.589	
2,600.00	2,502.13	2,617.43	2,533.72	12.47	11.90	-158.33	256.57	351.52	68.29	49.44	18.84	3.624	
2,700.00	2,585.83	2,717.28	2,619.86	13.45	12.77	-158.11	285.82	392.70	73.69	53.76	19.93	3.698	
2,800.00	2,669.53	2,817.13	2,706.00	14.44	13.67	-157.91	315.06	433.88	79.10	58.06	21.04	3.760	
2,900.00	2,753.22	2,916.99	2,792.13	15.46	14.58	-157.74	344.30	475.06	84.50	62.34	22.16	3.813	
3,000.00	2,836.92	3,016.84	2,878.27	16.48	15.50	-157.59	373.55	516.24	89.91	66.60	23.31	3.858	
3,100.00	2,920.62	3,116.69	2,964.41	17.52	16.44	-157.45	402.79	557.43	95.32	70.85	24.47	3.896	
3,200.00	3,004.32	3,216.55	3,050.55	18.56	17.38	-157.33	432.03	598.61	100.73	75.09	25.64	3.929	
3,300.00	3,088.01	3,316.40	3,136.68	19.61	18.33	-157.23	461.28	639.79	106.14	79.31	26.82	3.957	
3,400.00	3,171.71	3,416.25	3,222.82	20.67	19.28	-157.13	490.52	680.97	111.54	83.53	28.01	3.982	
3,500.00	3,255.41	3,516.11	3,308.96	21.73	20.24	-157.04	519.76	722.15	116.95	87.74	29.22	4.003	
3,600.00	3,339.10	3,615.96	3,395.10	22.80	21.21	-156.96	549.00	763.33	122.36	91.94	30.43	4.022	
3,700.00	3,422.80	3,715.81	3,481.23	23.87	22.17	-156.89	578.25	804.51	127.77	96.13	31.64	4.038	
3,800.00	3,506.50	3,815.67	3,567.37	24.94	23.15	-156.82	607.49	845.70	133.18	100.32	32.86	4.053	
3,900.00	3,590.20	3,915.52	3,653.51	26.02	24.12	-156.76	636.73	886.88	138.59	104.50	34.09	4.065	
4,000.00	3,673.89	4,015.37	3,739.65	27.10	25.10	-156.70	665.98	928.06	144.00	108.68	35.32	4.077	
4,100.00	3,757.59	4,115.23	3,825.78	28.18	26.08	-156.65	695.22	969.24	149.41	112.85	36.56	4.087	
4,200.00	3,841.29	4,215.08	3,911.92	29.26	27.06	-156.60	724.46	1,010.42	154.82	117.02	37.80	4.096	
4,300.00	3,924.99	4,314.93	3,998.06	30.35	28.04	-156.55	753.71	1,051.60	160.23	121.19	39.05	4.104	
4,400.00	4,008.68	4,414.79	4,084.20	31.44	29.03	-156.51	782.95	1,092.78	165.64	125.35	40.30	4.111	
4,500.00	4,092.38	4,514.64	4,170.33	32.52	30.01	-156.47	812.19	1,133.96	171.05	129.51	41.55	4.117	
4,600.00	4,176.08	4,614.49	4,256.47	33.62	31.00	-156.43	841.44	1,175.15	176.46	133.66	42.80	4.123	
4,700.00	4,259.77	4,714.35	4,342.61	34.71	31.99	-156.40	870.68	1,216.33	181.88	137.82	44.06	4.128	
4,800.00	4,343.47	4,814.20	4,428.74	35.80	32.98	-156.36	899.92	1,257.51	187.29	141.97	45.31	4.133	
4,900.00	4,427.17	4,914.05	4,514.88	36.89	33.97	-156.33	929.17	1,298.69	192.70	146.12	46.58	4.137	
5,000.00	4,510.87	5,013.91	4,601.02	37.99	34.97	-156.30	958.41	1,339.87	198.11	150.27	47.84	4.141	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	5,113.76	4,687.16	39.08	35.96	-156.27	987.65	1,381.05	203.52	154.42	49.10	4.145	
5,200.00	4,678.26	5,213.61	4,773.29	40.18	36.96	-156.24	1,016.89	1,422.23	208.93	158.56	50.37	4.148	
5,300.00	4,761.96	5,313.47	4,859.43	41.28	37.95	-156.22	1,046.14	1,463.42	214.34	162.71	51.64	4.151	
5,400.00	4,845.66	5,413.32	4,945.57	42.37	38.95	-156.19	1,075.38	1,504.60	219.75	166.85	52.90	4.154	
5,500.00	4,929.35	5,513.18	5,031.71	43.47	39.94	-156.17	1,104.62	1,545.78	225.16	170.99	54.17	4.156	
5,600.00	5,013.05	5,613.03	5,117.84	44.57	40.94	-156.15	1,133.87	1,586.96	230.57	175.13	55.45	4.159	
5,700.00	5,096.75	5,712.88	5,203.98	45.67	41.94	-156.13	1,163.11	1,628.14	235.99	179.27	56.72	4.161	
5,800.00	5,180.45	5,812.74	5,290.12	46.77	42.93	-156.11	1,192.35	1,669.32	241.40	183.40	57.99	4.163	
5,900.00	5,264.14	5,912.59	5,376.26	47.87	43.93	-156.09	1,221.60	1,710.50	246.81	187.54	59.27	4.164	
6,000.00	5,347.84	6,012.44	5,462.39	48.97	44.93	-156.07	1,250.84	1,751.69	252.22	191.68	60.54	4.166	
6,100.00	5,431.54	6,112.30	5,548.53	50.07	45.93	-156.05	1,280.08	1,792.87	257.63	195.81	61.82	4.167	
6,200.00	5,515.23	6,212.15	5,634.67	51.17	46.93	-156.04	1,309.33	1,834.05	263.04	199.94	63.10	4.169	
6,300.00	5,598.93	6,312.00	5,720.81	52.27	47.93	-156.02	1,338.57	1,875.23	268.45	204.08	64.38	4.170	
6,400.00	5,682.63	6,411.86	5,806.94	53.38	48.93	-156.00	1,367.81	1,916.41	273.86	208.21	65.66	4.171	
6,500.00	5,766.33	6,511.71	5,893.08	54.48	49.93	-155.99	1,397.05	1,957.59	279.28	212.34	66.93	4.172	
6,600.00	5,850.02	6,611.56	5,979.22	55.58	50.93	-155.97	1,426.30	1,998.77	284.69	216.47	68.22	4.173	
6,700.00	5,933.72	6,711.42	6,065.35	56.68	51.93	-155.96	1,455.54	2,039.96	290.10	220.60	69.50	4.174	
6,800.00	6,017.42	6,811.27	6,151.49	57.79	52.93	-155.95	1,484.78	2,081.14	295.51	224.73	70.78	4.175	
6,900.00	6,101.12	6,911.12	6,237.63	58.89	53.94	-155.93	1,514.03	2,122.32	300.92	228.86	72.06	4.176	
7,000.00	6,184.81	7,010.98	6,323.77	59.99	54.94	-155.92	1,543.27	2,163.50	306.33	232.99	73.34	4.177	
7,100.00	6,268.51	7,110.83	6,409.90	61.10	55.94	-155.91	1,572.51	2,204.68	311.75	237.12	74.63	4.177	
7,200.00	6,352.21	7,210.68	6,496.04	62.20	56.94	-155.90	1,601.76	2,245.86	317.16	241.25	75.91	4.178	
7,300.00	6,435.90	7,310.54	6,582.18	63.31	57.95	-155.89	1,631.00	2,287.04	322.57	245.37	77.19	4.179	
7,400.00	6,519.60	7,410.39	6,668.32	64.41	58.95	-155.88	1,660.24	2,328.22	327.98	249.50	78.48	4.179	
7,500.00	6,603.30	7,510.24	6,754.45	65.51	59.95	-155.87	1,689.49	2,369.41	333.39	253.63	79.76	4.180	
7,600.00	6,687.00	7,610.10	6,840.59	66.62	60.95	-155.86	1,718.73	2,410.59	338.80	257.75	81.05	4.180	
7,700.00	6,770.69	7,709.95	6,926.73	67.72	61.96	-155.85	1,747.97	2,451.77	344.21	261.88	82.34	4.181	
7,800.00	6,854.39	7,809.80	7,012.87	68.83	62.96	-155.84	1,777.21	2,492.95	349.63	266.00	83.62	4.181	
7,900.00	6,938.09	7,909.66	7,099.00	69.93	63.97	-155.83	1,806.46	2,534.13	355.04	270.13	84.91	4.181	
7,933.18	6,965.86	7,942.79	7,127.59	70.30	64.30	-155.82	1,816.16	2,547.80	356.83	271.50	85.33	4.182	
7,950.00	6,980.00	7,959.58	7,142.07	70.49	64.47	-158.19	1,821.08	2,554.72	357.72	272.14	85.59	4.180	
8,000.00	7,022.68	8,009.37	7,185.02	71.01	64.97	-165.42	1,835.66	2,575.26	360.17	273.38	86.79	4.150	
8,050.00	7,066.06	8,057.51	7,226.74	71.51	65.44	-173.01	1,849.00	2,595.20	362.46	273.94	88.52	4.095	
8,100.00	7,109.82	8,105.31	7,268.97	71.97	65.89	178.90	1,858.64	2,615.37	364.89	274.62	90.27	4.042	
8,150.00	7,153.63	8,153.69	7,312.31	72.38	66.31	170.75	1,864.40	2,636.06	367.48	275.51	91.97	3.996	
8,200.00	7,197.14	8,202.71	7,356.51	72.74	66.69	163.03	1,866.08	2,657.15	370.20	276.65	93.56	3.957	
8,250.00	7,240.04	8,252.38	7,401.28	73.05	67.04	156.11	1,863.50	2,678.49	373.06	278.07	94.99	3.927	
8,300.00	7,281.99	8,302.74	7,446.29	73.31	67.33	150.19	1,856.52	2,699.94	376.01	279.80	96.21	3.908	
8,350.00	7,322.67	8,353.83	7,491.21	73.52	67.58	145.26	1,844.99	2,721.32	379.03	281.84	97.19	3.900	
8,400.00	7,361.77	8,405.66	7,535.66	73.68	67.78	141.27	1,828.81	2,742.47	382.09	284.21	97.88	3.904	
8,450.00	7,399.01	8,458.26	7,579.24	73.78	67.92	138.06	1,807.92	2,763.18	385.15	286.91	98.24	3.921	
8,500.00	7,434.08	8,511.62	7,621.50	73.85	68.01	135.53	1,782.29	2,783.25	388.18	289.91	98.28	3.950	
8,550.00	7,466.74	8,565.76	7,661.99	73.87	68.05	133.53	1,751.96	2,802.46	391.14	293.16	97.97	3.992	
8,600.00	7,496.72	8,620.66	7,700.24	73.85	68.05	131.98	1,717.02	2,820.59	393.97	296.63	97.34	4.047	
8,650.00	7,523.80	8,676.31	7,735.75	73.79	68.00	130.78	1,677.64	2,837.39	396.63	300.22	96.41	4.114	
8,700.00	7,547.77	8,732.67	7,768.04	73.70	67.90	129.88	1,634.07	2,852.64	399.09	303.86	95.23	4.191	
8,750.00	7,568.45	8,789.68	7,796.61	73.58	67.77	129.20	1,586.63	2,866.11	401.30	307.45	93.85	4.276	
8,800.00	7,585.69	8,847.30	7,821.03	73.43	67.60	128.72	1,535.75	2,877.58	403.21	310.86	92.35	4.366	
8,850.00	7,599.35	8,905.45	7,840.88	73.26	67.39	128.41	1,481.91	2,886.87	404.79	313.98	90.82	4.457	
8,900.00	7,609.33	8,964.05	7,855.79	73.07	67.16	128.22	1,425.70	2,893.79	406.01	316.70	89.32	4.546	
8,950.00	7,615.55	9,022.98	7,865.50	72.87	66.90	128.16	1,367.76	2,898.22	406.85	318.91	87.94	4.627	
9,000.00	7,617.97	9,082.15	7,869.79	72.65	66.63	128.20	1,308.80	2,900.07	407.28	320.54	86.74	4.696	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,006.60	7,618.00	9,089.98	7,869.94	72.62	66.59	128.21	1,300.98	2,900.12	407.30	320.71	86.59	4.704	
9,100.00	7,618.00	9,184.73	7,870.00	72.22	66.16	128.22	1,206.23	2,899.83	407.31	320.92	86.39	4.715	
9,200.00	7,618.00	9,284.73	7,870.00	71.80	65.72	128.22	1,106.23	2,899.49	407.31	320.89	86.42	4.713	
9,300.00	7,618.00	9,384.73	7,870.00	71.41	65.30	128.22	1,006.23	2,899.15	407.31	320.75	86.56	4.706	
9,400.00	7,618.00	9,484.73	7,870.00	71.04	64.90	128.22	906.23	2,898.81	407.31	320.52	86.79	4.693	
9,500.00	7,618.00	9,584.73	7,870.00	70.68	64.53	128.22	806.23	2,898.47	407.31	320.19	87.12	4.675	
9,600.00	7,618.00	9,684.73	7,870.00	70.35	64.18	128.22	706.23	2,898.14	407.31	319.76	87.55	4.652	
9,700.00	7,618.00	9,784.73	7,870.00	70.04	63.85	128.22	606.23	2,897.80	407.31	319.23	88.08	4.625	
9,800.00	7,618.00	9,884.73	7,870.00	69.75	63.54	128.22	506.23	2,897.46	407.31	318.61	88.69	4.592	
9,900.00	7,618.00	9,984.73	7,870.00	69.47	63.26	128.22	406.23	2,897.12	407.31	317.90	89.41	4.556	
10,000.00	7,618.00	10,084.73	7,870.00	69.22	62.99	128.22	306.23	2,896.79	407.30	317.09	90.21	4.515	
10,100.00	7,618.00	10,184.73	7,870.00	68.99	62.75	128.22	206.23	2,896.45	407.30	316.20	91.10	4.471	
10,200.00	7,618.00	10,284.73	7,870.00	68.78	62.53	128.22	106.23	2,896.11	407.30	315.22	92.08	4.423	
10,300.00	7,618.00	10,384.73	7,870.00	68.59	62.34	128.22	6.23	2,895.77	407.30	314.16	93.14	4.373	
10,400.00	7,618.00	10,484.73	7,870.00	68.42	62.17	128.22	-93.77	2,895.43	407.30	313.02	94.28	4.320	
10,500.00	7,618.00	10,584.73	7,870.00	68.28	62.03	128.22	-193.77	2,895.10	407.30	311.81	95.49	4.265	
10,600.00	7,618.00	10,684.73	7,870.00	68.16	61.91	128.22	-293.76	2,894.76	407.30	310.51	96.78	4.208	
10,700.00	7,618.00	10,784.73	7,870.00	68.06	61.83	128.22	-393.76	2,894.42	407.30	309.15	98.15	4.150	
10,800.00	7,618.00	10,884.73	7,870.00	67.99	61.78	128.22	-493.76	2,894.08	407.30	307.72	99.58	4.090	
10,900.00	7,618.00	10,984.73	7,870.00	67.95	61.77	128.22	-593.76	2,893.75	407.29	306.22	101.07	4.030	
11,000.00	7,618.00	11,084.73	7,870.00	67.95	61.80	128.22	-693.76	2,893.41	407.29	304.66	102.63	3.968	
11,100.00	7,618.00	11,184.73	7,870.00	67.97	61.88	128.22	-793.76	2,893.07	407.29	303.04	104.25	3.907	
11,200.00	7,618.00	11,284.73	7,870.00	68.04	62.01	128.22	-893.76	2,892.73	407.29	301.37	105.93	3.845	
11,300.00	7,618.00	11,384.73	7,870.00	68.15	62.20	128.22	-993.76	2,892.39	407.29	299.63	107.66	3.783	
11,400.00	7,618.00	11,484.73	7,870.00	68.30	62.45	128.22	-1,093.76	2,892.06	407.29	297.85	109.44	3.722	
11,500.00	7,618.00	11,584.73	7,870.00	68.50	62.78	128.22	-1,193.76	2,891.72	407.29	296.02	111.27	3.660	
11,600.00	7,618.00	11,684.73	7,870.00	68.75	63.18	128.22	-1,293.76	2,891.38	407.29	294.14	113.15	3.600	
11,700.00	7,618.00	11,784.73	7,870.00	69.06	63.67	128.22	-1,393.76	2,891.04	407.29	292.22	115.07	3.539	
11,800.00	7,618.00	11,884.73	7,870.00	69.44	64.25	128.22	-1,493.76	2,890.71	407.28	290.25	117.03	3.480	
11,900.00	7,618.00	11,984.73	7,870.00	69.88	64.91	128.22	-1,593.76	2,890.37	407.28	288.24	119.04	3.421	
12,000.00	7,618.00	12,084.73	7,870.00	70.39	65.65	128.22	-1,693.76	2,890.03	407.28	286.20	121.08	3.364	
12,100.00	7,618.00	12,184.73	7,870.00	70.97	66.47	128.22	-1,793.76	2,889.69	407.28	284.12	123.16	3.307	
12,200.00	7,618.00	12,284.73	7,870.00	71.63	67.37	128.22	-1,893.76	2,889.35	407.28	282.00	125.28	3.251	
12,300.00	7,618.00	12,384.73	7,870.00	72.35	68.33	128.22	-1,993.75	2,889.02	407.28	279.85	127.43	3.196	
12,400.00	7,618.00	12,484.73	7,870.00	73.15	69.36	128.22	-2,093.75	2,888.68	407.28	277.67	129.60	3.142	
12,500.00	7,618.00	12,584.73	7,870.00	74.01	70.44	128.22	-2,193.75	2,888.34	407.28	275.46	131.81	3.090	
12,600.00	7,618.00	12,684.73	7,870.00	74.93	71.57	128.22	-2,293.75	2,888.00	407.28	273.23	134.05	3.038	
12,700.00	7,618.00	12,784.73	7,870.00	75.91	72.74	128.22	-2,393.75	2,887.67	407.27	270.96	136.31	2.988	
12,800.00	7,618.00	12,884.73	7,870.00	76.95	73.95	128.22	-2,493.75	2,887.33	407.27	268.67	138.60	2.938	
12,900.00	7,618.00	12,984.73	7,870.00	78.04	75.20	128.22	-2,593.75	2,886.99	407.27	266.36	140.92	2.890	
13,000.00	7,618.00	13,084.73	7,870.00	79.16	76.47	128.23	-2,693.75	2,886.65	407.27	264.02	143.25	2.843	
13,100.00	7,618.00	13,184.73	7,870.00	80.33	77.78	128.23	-2,793.75	2,886.32	407.27	261.66	145.61	2.797	
13,200.00	7,618.00	13,284.73	7,870.00	81.54	79.11	128.23	-2,893.75	2,885.98	407.27	259.28	147.99	2.752	
13,300.00	7,618.00	13,384.73	7,870.00	82.78	80.46	128.23	-2,993.75	2,885.64	407.27	256.88	150.39	2.708	
13,400.00	7,618.00	13,484.73	7,870.00	84.05	81.83	128.23	-3,093.75	2,885.30	407.27	254.46	152.81	2.665	
13,500.00	7,618.00	13,584.73	7,870.00	85.35	83.22	128.23	-3,193.75	2,884.96	407.27	252.02	155.24	2.623	
13,600.00	7,618.00	13,684.73	7,870.00	86.67	84.63	128.23	-3,293.75	2,884.63	407.27	249.57	157.70	2.583	
13,700.00	7,618.00	13,784.73	7,870.00	88.02	86.05	128.23	-3,393.75	2,884.29	407.26	247.10	160.17	2.543	
13,800.00	7,618.00	13,884.73	7,870.00	89.38	87.49	128.23	-3,493.75	2,883.95	407.26	244.61	162.65	2.504	
13,900.00	7,618.00	13,984.73	7,870.00	90.77	88.94	128.23	-3,593.75	2,883.61	407.26	242.11	165.15	2.466	
14,000.00	7,618.00	14,084.73	7,870.00	92.17	90.40	128.23	-3,693.75	2,883.28	407.26	239.59	167.67	2.429	
14,100.00	7,618.00	14,184.73	7,870.00	93.59	91.88	128.23	-3,793.74	2,882.94	407.26	237.06	170.20	2.393	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,618.00	14,284.73	7,870.00	95.02	93.36	128.23	-3,893.74	2,882.60	407.26	234.52	172.74	2.358	
14,300.00	7,618.00	14,384.73	7,870.00	96.47	94.86	128.23	-3,993.74	2,882.26	407.26	231.96	175.29	2.323	
14,400.00	7,618.00	14,484.73	7,870.00	97.93	96.37	128.23	-4,093.74	2,881.92	407.26	229.40	177.86	2.290	
14,500.00	7,618.00	14,584.73	7,870.00	99.41	97.88	128.23	-4,193.74	2,881.59	407.26	226.82	180.44	2.257	
14,600.00	7,618.00	14,684.73	7,870.00	100.89	99.41	128.23	-4,293.74	2,881.25	407.25	224.23	183.03	2.225	
14,700.00	7,618.00	14,784.73	7,870.00	102.38	100.94	128.23	-4,393.74	2,880.91	407.25	221.63	185.63	2.194	
14,800.00	7,618.00	14,884.73	7,870.00	103.89	102.48	128.23	-4,493.74	2,880.57	407.25	219.01	188.24	2.163	
14,900.00	7,618.00	14,984.73	7,870.00	105.40	104.02	128.23	-4,593.74	2,880.24	407.25	216.39	190.86	2.134	
15,000.00	7,618.00	15,084.73	7,870.00	106.92	105.58	128.23	-4,693.74	2,879.90	407.25	213.76	193.49	2.105	
15,100.00	7,618.00	15,184.73	7,870.00	108.45	107.14	128.23	-4,793.74	2,879.56	407.25	211.13	196.12	2.076	
15,200.00	7,618.00	15,284.73	7,870.00	109.99	108.71	128.23	-4,893.74	2,879.22	407.25	208.48	198.77	2.049	
15,300.00	7,618.00	15,384.73	7,870.00	111.54	110.28	128.23	-4,993.74	2,878.88	407.25	205.82	201.42	2.022	
15,400.00	7,618.00	15,484.73	7,870.00	113.09	111.86	128.23	-5,093.74	2,878.55	407.25	203.16	204.09	1.995	
15,500.00	7,618.00	15,584.73	7,870.00	114.65	113.44	128.23	-5,193.74	2,878.21	407.24	200.49	206.76	1.970	
15,600.00	7,618.00	15,684.73	7,870.00	116.21	115.03	128.23	-5,293.74	2,877.87	407.24	197.81	209.43	1.945	
15,700.00	7,618.00	15,784.73	7,870.00	117.78	116.63	128.23	-5,393.74	2,877.53	407.24	195.12	212.12	1.920	
15,800.00	7,618.00	15,884.73	7,870.00	119.36	118.23	128.23	-5,493.73	2,877.20	407.24	192.43	214.81	1.896	
15,900.00	7,618.00	15,984.73	7,870.00	120.94	119.83	128.23	-5,593.73	2,876.86	407.24	189.73	217.51	1.872	
16,000.00	7,618.00	16,084.73	7,870.00	122.53	121.44	128.23	-5,693.73	2,876.52	407.24	187.03	220.21	1.849	
16,100.00	7,618.00	16,184.73	7,870.00	124.12	123.05	128.23	-5,793.73	2,876.18	407.24	184.32	222.92	1.827	
16,200.00	7,618.00	16,284.73	7,870.00	125.72	124.67	128.23	-5,893.73	2,875.84	407.24	181.60	225.64	1.805	
16,300.00	7,618.00	16,384.73	7,870.00	127.32	126.29	128.23	-5,993.73	2,875.51	407.24	178.88	228.36	1.783	
16,400.00	7,618.00	16,484.73	7,870.00	128.93	127.91	128.23	-6,093.73	2,875.17	407.23	176.15	231.08	1.762	
16,500.00	7,618.00	16,584.73	7,870.00	130.54	129.54	128.23	-6,193.73	2,874.83	407.23	173.42	233.82	1.742	
16,600.00	7,618.00	16,684.73	7,870.00	132.15	131.17	128.23	-6,293.73	2,874.49	407.23	170.68	236.55	1.722	
16,700.00	7,618.00	16,784.73	7,870.00	133.77	132.80	128.23	-6,393.73	2,874.16	407.23	167.94	239.29	1.702	
16,800.00	7,618.00	16,884.73	7,870.00	135.39	134.44	128.23	-6,493.73	2,873.82	407.23	165.19	242.04	1.682	
16,900.00	7,618.00	16,984.73	7,870.00	137.01	136.08	128.23	-6,593.73	2,873.48	407.23	162.44	244.79	1.664	
17,000.00	7,618.00	17,084.73	7,870.00	138.64	137.72	128.23	-6,693.73	2,873.14	407.23	159.68	247.55	1.645	
17,100.00	7,618.00	17,184.73	7,870.00	140.27	139.37	128.23	-6,793.73	2,872.80	407.23	156.92	250.31	1.627	
17,200.00	7,618.00	17,284.73	7,870.00	141.91	141.02	128.23	-6,893.73	2,872.47	407.23	154.16	253.07	1.609	
17,300.00	7,618.00	17,384.73	7,870.00	143.55	142.67	128.23	-6,993.73	2,872.13	407.22	151.39	255.84	1.592	
17,400.00	7,618.00	17,484.73	7,870.00	145.19	144.32	128.23	-7,093.73	2,871.79	407.22	148.61	258.61	1.575	
17,500.00	7,618.00	17,584.73	7,870.00	146.83	145.98	128.23	-7,193.73	2,871.45	407.22	145.84	261.39	1.558	
17,600.00	7,618.00	17,684.73	7,870.00	148.48	147.64	128.23	-7,293.72	2,871.12	407.22	143.06	264.16	1.542	
17,700.00	7,618.00	17,784.73	7,870.00	150.13	149.30	128.23	-7,393.72	2,870.78	407.22	140.27	266.95	1.525	
17,800.00	7,618.00	17,884.73	7,870.00	151.78	150.97	128.23	-7,493.72	2,870.44	407.22	137.49	269.73	1.510	
17,900.00	7,618.00	17,984.73	7,870.00	153.43	152.63	128.23	-7,593.72	2,870.10	407.22	134.70	272.52	1.494	Level 3
18,000.00	7,618.00	18,084.73	7,870.00	155.09	154.30	128.23	-7,693.72	2,869.76	407.22	131.90	275.31	1.479	Level 3
18,100.00	7,618.00	18,184.73	7,870.00	156.75	155.97	128.23	-7,793.72	2,869.43	407.22	129.11	278.11	1.464	Level 3
18,200.00	7,618.00	18,284.73	7,870.00	158.41	157.64	128.23	-7,893.72	2,869.09	407.22	126.31	280.91	1.450	Level 3
18,300.00	7,618.00	18,384.73	7,870.00	160.07	159.32	128.23	-7,993.72	2,868.75	407.21	123.50	283.71	1.435	Level 3
18,400.00	7,618.00	18,484.73	7,870.00	161.74	160.99	128.23	-8,093.72	2,868.41	407.21	120.70	286.51	1.421	Level 3
18,500.00	7,618.00	18,584.73	7,870.00	163.41	162.67	128.23	-8,193.72	2,868.08	407.21	117.89	289.32	1.407	Level 3
18,600.00	7,618.00	18,684.73	7,870.00	165.08	164.35	128.23	-8,293.72	2,867.74	407.21	115.08	292.13	1.394	Level 3
18,700.00	7,618.00	18,784.73	7,870.00	166.75	166.03	128.23	-8,393.72	2,867.40	407.21	112.27	294.94	1.381	Level 3
18,711.30	7,618.00	18,796.03	7,870.00	166.94	166.22	128.23	-8,405.02	2,867.36	407.21	111.95	295.26	1.379	Level 3, SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	-1.00	0.00	0.00	90.00	0.00	10.08	10.08				
100.00	100.00	101.00	99.00	0.13	0.14	90.00	0.00	10.08	10.08	9.81	0.27	36.999	
200.00	200.00	201.00	199.00	0.49	0.50	90.00	0.00	10.08	10.08	9.09	0.99	10.188	
300.00	300.00	301.00	299.00	0.85	0.85	90.00	0.00	10.08	10.08	8.37	1.71	5.907	
400.00	400.00	401.00	399.00	1.21	1.21	90.00	0.00	10.08	10.08	7.66	2.42	4.160	
500.00	500.00	501.00	499.00	1.57	1.57	90.00	0.00	10.08	10.08	6.94	3.14	3.210	
600.00	600.00	601.00	599.00	1.93	1.93	90.00	0.00	10.08	10.08	6.22	3.86	2.613	
700.00	700.00	701.00	699.00	2.29	2.29	90.00	0.00	10.08	10.08	5.51	4.57	2.204	
800.00	800.00	799.00	799.00	2.64	2.64	90.00	0.00	10.08	10.08	4.80	5.28	1.908	CC, ES
900.00	900.00	898.66	898.64	3.00	2.99	85.74	0.86	11.55	11.58	5.59	5.99	1.932	
1,000.00	999.98	998.18	998.02	3.36	3.35	22.92	3.47	15.99	14.77	8.08	6.69	2.208	
1,100.00	1,099.84	1,097.58	1,097.05	3.71	3.70	19.76	7.82	23.40	18.08	10.70	7.38	2.451	
1,200.00	1,199.45	1,196.87	1,195.60	4.07	4.07	17.96	13.89	33.75	21.44	13.39	8.06	2.661	
1,300.00	1,298.70	1,296.04	1,293.56	4.44	4.45	16.99	21.69	47.02	24.84	16.10	8.73	2.844	
1,400.00	1,397.47	1,395.09	1,390.82	4.82	4.85	16.54	31.18	63.19	28.24	18.84	9.41	3.002	
1,500.00	1,495.62	1,494.03	1,487.26	5.22	5.28	16.45	42.35	82.23	31.66	21.57	10.08	3.140	
1,600.00	1,593.06	1,592.85	1,582.77	5.65	5.74	16.61	55.19	104.09	35.07	24.31	10.76	3.260	
1,700.00	1,689.64	1,691.57	1,677.25	6.11	6.24	16.96	69.67	128.76	38.47	27.03	11.44	3.363	
1,800.00	1,785.27	1,790.17	1,770.58	6.61	6.77	17.44	85.77	156.19	41.88	29.75	12.13	3.452	
1,900.00	1,879.82	1,888.67	1,862.66	7.15	7.36	18.03	103.46	186.34	45.27	32.44	12.83	3.528	
2,000.00	1,973.17	1,987.06	1,953.38	7.73	8.00	18.70	122.73	219.16	48.66	35.11	13.56	3.589	
2,100.00	2,065.21	2,085.35	2,042.66	8.37	8.69	19.44	143.54	254.61	52.05	37.74	14.31	3.637	
2,200.00	2,155.84	2,183.53	2,130.38	9.07	9.43	20.24	165.87	292.64	55.42	40.33	15.10	3.672	
2,300.00	2,244.94	2,281.62	2,216.45	9.82	10.24	21.07	189.67	333.19	58.79	42.87	15.92	3.692	
2,400.00	2,332.39	2,379.61	2,300.78	10.64	11.11	21.94	214.93	376.22	62.16	45.36	16.80	3.700	
2,500.00	2,418.11	2,477.50	2,383.27	11.53	12.05	22.84	241.61	421.67	65.51	47.77	17.74	3.693	
2,558.91	2,467.74	2,535.79	2,431.61	12.08	12.63	23.44	258.10	449.76	67.33	48.95	18.38	3.662	
2,600.00	2,502.13	2,576.87	2,465.63	12.47	13.05	23.97	269.75	469.61	68.30	49.41	18.89	3.615	
2,700.00	2,585.83	2,676.83	2,548.41	13.45	14.08	25.19	298.12	517.93	70.69	50.52	20.17	3.505	
2,800.00	2,669.53	2,776.79	2,631.19	14.44	15.13	26.34	326.48	566.25	73.11	51.60	21.51	3.399	
2,900.00	2,753.22	2,876.75	2,713.97	15.46	16.19	27.41	354.85	614.57	75.55	52.66	22.89	3.301	
3,000.00	2,836.92	2,976.71	2,796.75	16.48	17.26	28.41	383.21	662.89	78.03	53.70	24.32	3.208	
3,100.00	2,920.62	3,076.67	2,879.54	17.52	18.35	29.35	411.57	711.21	80.52	54.72	25.80	3.121	
3,200.00	3,004.32	3,176.63	2,962.32	18.56	19.44	30.23	439.94	759.53	83.03	55.72	27.31	3.041	
3,300.00	3,088.01	3,276.59	3,045.10	19.61	20.53	31.06	468.30	807.85	85.56	56.71	28.85	2.966	
3,400.00	3,171.71	3,376.55	3,127.88	20.67	21.64	31.85	496.67	856.17	88.11	57.68	30.43	2.896	
3,500.00	3,255.41	3,476.51	3,210.66	21.73	22.74	32.59	525.03	904.49	90.68	58.64	32.03	2.831	
3,600.00	3,339.10	3,576.47	3,293.44	22.80	23.85	33.29	553.40	952.81	93.25	59.59	33.66	2.770	
3,700.00	3,422.80	3,676.43	3,376.22	23.87	24.97	33.95	581.76	1,001.13	95.85	60.53	35.32	2.714	
3,800.00	3,506.50	3,776.40	3,459.00	24.94	26.09	34.57	610.13	1,049.45	98.45	61.46	36.99	2.662	
3,900.00	3,590.20	3,876.36	3,541.78	26.02	27.21	35.17	638.49	1,097.77	101.06	62.38	38.68	2.613	
4,000.00	3,673.89	3,976.32	3,624.56	27.10	28.33	35.73	666.86	1,146.10	103.69	63.30	40.39	2.567	
4,100.00	3,757.59	4,076.28	3,707.35	28.18	29.45	36.27	695.22	1,194.42	106.32	64.21	42.12	2.525	
4,200.00	3,841.29	4,176.24	3,790.13	29.26	30.58	36.78	723.59	1,242.74	108.97	65.11	43.86	2.485	
4,300.00	3,924.99	4,276.20	3,872.91	30.35	31.71	37.26	751.95	1,291.06	111.62	66.01	45.61	2.447	
4,400.00	4,008.68	4,376.16	3,955.69	31.44	32.84	37.73	780.31	1,339.38	114.28	66.91	47.37	2.412	
4,500.00	4,092.38	4,476.12	4,038.47	32.52	33.97	38.17	808.68	1,387.70	116.95	67.80	49.15	2.379	
4,600.00	4,176.08	4,576.08	4,121.25	33.62	35.10	38.59	837.04	1,436.02	119.62	68.68	50.93	2.349	
4,700.00	4,259.77	4,676.04	4,204.03	34.71	36.23	39.00	865.41	1,484.34	122.30	69.57	52.73	2.319	
4,800.00	4,343.47	4,776.00	4,286.81	35.80	37.37	39.38	893.77	1,532.66	124.98	70.45	54.53	2.292	
4,900.00	4,427.17	4,875.96	4,369.59	36.89	38.50	39.75	922.14	1,580.98	127.67	71.33	56.34	2.266	
5,000.00	4,510.87	4,975.92	4,452.38	37.99	39.64	40.11	950.50	1,629.30	130.37	72.21	58.16	2.241	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	5,075.88	4,535.16	39.08	40.77	40.45	978.87	1,677.62	133.07	73.08	59.99	2.218	
5,200.00	4,678.26	5,175.84	4,617.94	40.18	41.91	40.78	1,007.23	1,725.94	135.78	73.96	61.82	2.196	
5,300.00	4,761.96	5,275.80	4,700.72	41.28	43.05	41.09	1,035.60	1,774.26	138.49	74.83	63.66	2.175	
5,400.00	4,845.66	5,375.76	4,783.50	42.37	44.19	41.39	1,063.96	1,822.58	141.20	75.70	65.50	2.156	
5,500.00	4,929.35	5,475.72	4,866.28	43.47	45.32	41.68	1,092.33	1,870.90	143.92	76.57	67.35	2.137	
5,600.00	5,013.05	5,575.68	4,949.06	44.57	46.46	41.96	1,120.69	1,919.22	146.64	77.44	69.20	2.119	
5,700.00	5,096.75	5,675.64	5,031.84	45.67	47.60	42.23	1,149.05	1,967.54	149.36	78.30	71.06	2.102	
5,800.00	5,180.45	5,775.60	5,114.62	46.77	48.74	42.49	1,177.42	2,015.86	152.09	79.17	72.92	2.086	
5,900.00	5,264.14	5,875.57	5,197.41	47.87	49.88	42.74	1,205.78	2,064.18	154.82	80.03	74.78	2.070	
6,000.00	5,347.84	5,975.53	5,280.19	48.97	51.02	42.99	1,234.15	2,112.50	157.55	80.90	76.65	2.055	
6,100.00	5,431.54	6,075.49	5,362.97	50.07	52.17	43.22	1,262.51	2,160.82	160.29	81.76	78.52	2.041	
6,200.00	5,515.23	6,175.45	5,445.75	51.17	53.31	43.45	1,290.88	2,209.14	163.03	82.63	80.40	2.028	
6,300.00	5,598.93	6,275.41	5,528.53	52.27	54.45	43.66	1,319.24	2,257.46	165.77	83.49	82.28	2.015	
6,400.00	5,682.63	6,375.37	5,611.31	53.38	55.59	43.88	1,347.61	2,305.78	168.51	84.35	84.16	2.002	
6,500.00	5,766.33	6,475.33	5,694.09	54.48	56.73	44.08	1,375.97	2,354.10	171.26	85.21	86.04	1.990	
6,600.00	5,850.02	6,575.29	5,776.87	55.58	57.88	44.28	1,404.34	2,402.42	174.00	86.08	87.93	1.979	
6,700.00	5,933.72	6,675.25	5,859.65	56.68	59.02	44.47	1,432.70	2,450.74	176.75	86.94	89.82	1.968	
6,800.00	6,017.42	6,775.21	5,942.43	57.79	60.16	44.66	1,461.07	2,499.06	179.50	87.80	91.71	1.957	
6,900.00	6,101.12	6,875.17	6,025.22	58.89	61.31	44.84	1,489.43	2,547.38	182.26	88.66	93.60	1.947	
7,000.00	6,184.81	6,975.13	6,108.00	59.99	62.45	45.01	1,517.79	2,595.70	185.01	89.52	95.49	1.937	
7,100.00	6,268.51	7,075.09	6,190.78	61.10	63.59	45.18	1,546.16	2,644.02	187.77	90.38	97.39	1.928	
7,200.00	6,352.21	7,175.05	6,273.56	62.20	64.74	45.35	1,574.52	2,692.34	190.53	91.24	99.29	1.919	
7,300.00	6,435.90	7,275.01	6,356.34	63.31	65.88	45.51	1,602.89	2,740.66	193.29	92.10	101.19	1.910	
7,400.00	6,519.60	7,374.97	6,439.12	64.41	67.03	45.67	1,631.25	2,788.98	196.05	92.96	103.09	1.902	
7,500.00	6,603.30	7,474.93	6,521.90	65.51	68.17	45.82	1,659.62	2,837.30	198.81	93.82	104.99	1.894	
7,600.00	6,687.00	7,574.89	6,604.68	66.62	69.32	45.96	1,687.98	2,885.62	201.58	94.68	106.90	1.886	
7,700.00	6,770.69	7,674.85	6,687.46	67.72	70.46	46.11	1,716.35	2,933.94	204.34	95.54	108.80	1.878	
7,800.00	6,854.39	7,774.81	6,770.25	68.83	71.61	46.25	1,744.71	2,982.26	207.11	96.40	110.71	1.871	
7,900.00	6,938.09	7,874.77	6,853.03	69.93	72.75	46.38	1,773.08	3,030.58	209.88	97.26	112.62	1.864	
7,933.18	6,965.86	7,907.94	6,880.49	70.30	73.13	46.43	1,782.49	3,046.62	210.80	97.54	113.25	1.861	
7,950.00	6,980.00	7,924.76	6,894.42	70.49	73.32	44.10	1,787.26	3,054.74	211.19	97.69	113.49	1.861	
8,000.00	7,022.68	7,974.63	6,935.72	71.01	73.89	35.69	1,801.41	3,078.85	211.47	98.19	113.28	1.867	
8,050.00	7,066.06	8,024.06	6,976.66	71.51	74.46	25.19	1,815.44	3,102.75	210.63	99.04	111.59	1.888	
8,100.00	7,109.82	8,072.67	7,016.91	71.97	75.02	12.97	1,829.23	3,126.24	209.12	100.81	108.31	1.931	
8,150.00	7,153.63	8,120.07	7,056.17	72.38	75.56	-0.35	1,842.68	3,149.16	207.62	104.28	103.35	2.009	
8,191.21	7,189.53	8,157.99	7,087.57	72.68	75.99	-11.66	1,853.44	3,167.49	207.08	109.01	98.07	2.112	
8,200.00	7,197.14	8,165.92	7,094.14	72.74	76.09	-14.07	1,855.69	3,171.32	207.12	110.28	96.84	2.139	
8,250.00	7,240.04	8,210.97	7,131.85	73.05	76.59	-27.21	1,866.72	3,193.33	208.62	118.66	89.96	2.319	
8,300.00	7,281.99	8,257.68	7,171.63	73.31	77.09	-39.29	1,874.49	3,216.53	212.44	128.26	84.18	2.524	
8,350.00	7,322.67	8,306.29	7,213.46	73.52	77.58	-50.19	1,878.57	3,240.91	218.51	138.40	80.11	2.728	
8,400.00	7,361.77	8,357.06	7,257.31	73.68	78.05	-59.91	1,878.44	3,266.46	226.64	148.78	77.86	2.911	
8,450.00	7,399.01	8,410.29	7,303.10	73.78	78.49	-68.51	1,873.48	3,293.12	236.53	159.52	77.01	3.071	
8,500.00	7,434.08	8,466.34	7,350.67	73.85	78.89	-76.08	1,862.96	3,320.79	247.83	171.01	76.82	3.226	
8,550.00	7,466.74	8,525.55	7,399.70	73.87	79.24	-82.72	1,846.08	3,349.30	260.11	183.58	76.53	3.399	
8,600.00	7,496.72	8,588.31	7,449.75	73.85	79.54	-88.51	1,821.89	3,378.37	272.93	197.38	75.55	3.613	
8,650.00	7,523.80	8,654.98	7,500.09	73.79	79.77	-93.53	1,789.44	3,407.59	285.83	212.29	73.54	3.887	
8,700.00	7,547.77	8,725.88	7,549.66	73.70	79.92	-97.83	1,747.76	3,436.33	298.32	227.82	70.50	4.232	
8,750.00	7,568.45	8,801.20	7,597.04	73.58	79.98	-101.44	1,696.11	3,463.75	309.92	243.14	66.78	4.641	
8,800.00	7,585.69	8,880.95	7,640.37	73.43	79.94	-104.38	1,634.11	3,488.79	320.14	256.90	63.25	5.062	
8,850.00	7,599.35	8,964.83	7,677.48	73.26	79.81	-106.66	1,562.07	3,510.16	328.54	267.26	61.28	5.362	
8,900.00	7,609.33	9,052.20	7,706.05	73.07	79.59	-108.28	1,481.23	3,526.53	334.69	272.32	62.36	5.367	
8,950.00	7,615.55	9,142.07	7,724.03	72.87	79.28	-109.21	1,393.86	3,536.71	338.29	270.98	67.31	5.026	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	9,233.10	7,730.00	72.65	78.92	-109.46	1,303.18	3,539.88	339.13	263.55	75.57	4.487	
9,006.59	7,618.00	9,238.80	7,730.00	72.62	78.90	-109.47	1,297.47	3,539.86	339.10	263.83	75.27	4.505	
9,006.60	7,618.00	9,238.81	7,730.00	72.62	78.90	-109.47	1,297.46	3,539.86	339.10	263.83	75.27	4.505	
9,100.00	7,618.00	9,332.21	7,730.00	72.22	78.52	-109.47	1,204.07	3,539.55	339.10	265.08	74.02	4.581	
9,200.00	7,618.00	9,432.21	7,730.00	71.80	78.14	-109.46	1,104.07	3,539.21	339.11	266.30	72.81	4.657	
9,300.00	7,618.00	9,532.21	7,730.00	71.41	77.77	-109.46	1,004.07	3,538.87	339.11	267.37	71.73	4.727	
9,400.00	7,618.00	9,632.21	7,730.00	71.04	77.42	-109.46	904.07	3,538.53	339.11	268.30	70.80	4.789	
9,500.00	7,618.00	9,732.21	7,730.00	70.68	77.09	-109.46	804.07	3,538.20	339.11	269.09	70.02	4.843	
9,600.00	7,618.00	9,832.21	7,730.00	70.35	76.78	-109.46	704.07	3,537.86	339.11	269.71	69.40	4.886	
9,700.00	7,618.00	9,932.21	7,730.00	70.04	76.48	-109.46	604.07	3,537.52	339.11	270.18	68.93	4.919	
9,800.00	7,618.00	10,032.21	7,730.00	69.75	76.21	-109.46	504.07	3,537.18	339.11	270.48	68.63	4.941	
9,900.00	7,618.00	10,132.21	7,730.00	69.47	75.95	-109.46	404.07	3,536.84	339.12	270.62	68.49	4.951	
10,000.00	7,618.00	10,232.21	7,730.00	69.22	75.72	-109.46	304.07	3,536.51	339.12	270.59	68.52	4.949	
10,100.00	7,618.00	10,332.21	7,730.00	68.99	75.50	-109.46	204.07	3,536.17	339.12	270.40	68.72	4.935	
10,200.00	7,618.00	10,432.21	7,730.00	68.78	75.30	-109.46	104.07	3,535.83	339.12	270.04	69.08	4.909	
10,300.00	7,618.00	10,532.21	7,730.00	68.59	75.12	-109.46	4.07	3,535.49	339.12	269.53	69.60	4.873	
10,400.00	7,618.00	10,632.21	7,730.00	68.42	74.96	-109.46	-95.93	3,535.16	339.12	268.85	70.27	4.826	
10,500.00	7,618.00	10,732.21	7,730.00	68.28	74.82	-109.46	-195.93	3,534.82	339.12	268.02	71.11	4.769	
10,600.00	7,618.00	10,832.21	7,730.00	68.16	74.70	-109.46	-295.92	3,534.48	339.13	267.04	72.09	4.704	
10,700.00	7,618.00	10,932.21	7,730.00	68.06	74.61	-109.46	-395.92	3,534.14	339.13	265.92	73.21	4.632	
10,800.00	7,618.00	11,032.21	7,730.00	67.99	74.54	-109.46	-495.92	3,533.81	339.13	264.66	74.47	4.554	
10,900.00	7,618.00	11,132.21	7,730.00	67.95	74.49	-109.46	-595.92	3,533.47	339.13	263.28	75.85	4.471	
11,000.00	7,618.00	11,232.21	7,730.00	67.95	74.47	-109.46	-695.92	3,533.13	339.13	261.77	77.36	4.384	
11,100.00	7,618.00	11,332.21	7,730.00	67.97	74.48	-109.46	-795.92	3,532.79	339.13	260.14	78.99	4.293	
11,200.00	7,618.00	11,432.21	7,730.00	68.04	74.52	-109.46	-895.92	3,532.46	339.13	258.41	80.72	4.201	
11,300.00	7,618.00	11,532.21	7,730.00	68.15	74.59	-109.46	-995.92	3,532.12	339.14	256.58	82.56	4.108	
11,400.00	7,618.00	11,632.21	7,730.00	68.30	74.69	-109.46	-1,095.92	3,531.78	339.14	254.65	84.49	4.014	
11,500.00	7,618.00	11,732.21	7,730.00	68.50	74.84	-109.46	-1,195.92	3,531.44	339.14	252.63	86.51	3.920	
11,600.00	7,618.00	11,832.21	7,730.00	68.75	75.02	-109.46	-1,295.92	3,531.11	339.14	250.53	88.61	3.828	
11,700.00	7,618.00	11,932.21	7,730.00	69.06	75.25	-109.46	-1,395.92	3,530.77	339.14	248.36	90.78	3.736	
11,800.00	7,618.00	12,032.21	7,730.00	69.44	75.52	-109.46	-1,495.92	3,530.43	339.14	246.11	93.03	3.645	
11,900.00	7,618.00	12,132.21	7,730.00	69.88	75.84	-109.46	-1,595.92	3,530.09	339.14	243.80	95.35	3.557	
12,000.00	7,618.00	12,232.21	7,730.00	70.39	76.22	-109.46	-1,695.92	3,529.75	339.15	241.42	97.72	3.470	
12,100.00	7,618.00	12,332.21	7,730.00	70.97	76.65	-109.46	-1,795.92	3,529.42	339.15	238.99	100.16	3.386	
12,200.00	7,618.00	12,432.21	7,730.00	71.63	77.14	-109.46	-1,895.92	3,529.08	339.15	236.51	102.64	3.304	
12,300.00	7,618.00	12,532.21	7,730.00	72.35	77.68	-109.46	-1,995.92	3,528.74	339.15	233.97	105.18	3.224	
12,400.00	7,618.00	12,632.21	7,730.00	73.15	78.29	-109.46	-2,095.91	3,528.40	339.15	231.39	107.76	3.147	
12,500.00	7,618.00	12,732.21	7,730.00	74.01	78.96	-109.46	-2,195.91	3,528.07	339.15	228.77	110.39	3.072	
12,600.00	7,618.00	12,832.21	7,730.00	74.93	79.69	-109.46	-2,295.91	3,527.73	339.15	226.10	113.05	3.000	
12,700.00	7,618.00	12,932.21	7,730.00	75.91	80.48	-109.46	-2,395.91	3,527.39	339.16	223.40	115.75	2.930	
12,800.00	7,618.00	13,032.21	7,730.00	76.95	81.33	-109.46	-2,495.91	3,527.05	339.16	220.67	118.49	2.862	
12,900.00	7,618.00	13,132.21	7,730.00	78.04	82.23	-109.46	-2,595.91	3,526.72	339.16	217.90	121.26	2.797	
13,000.00	7,618.00	13,232.21	7,730.00	79.16	83.19	-109.46	-2,695.91	3,526.38	339.16	215.11	124.05	2.734	
13,100.00	7,618.00	13,332.21	7,730.00	80.33	84.19	-109.46	-2,795.91	3,526.04	339.16	212.28	126.88	2.673	
13,200.00	7,618.00	13,432.21	7,730.00	81.54	85.24	-109.46	-2,895.91	3,525.70	339.16	209.43	129.73	2.614	
13,300.00	7,618.00	13,532.21	7,730.00	82.78	86.33	-109.46	-2,995.91	3,525.37	339.16	206.56	132.61	2.558	
13,400.00	7,618.00	13,632.21	7,730.00	84.05	87.46	-109.46	-3,095.91	3,525.03	339.17	203.66	135.51	2.503	
13,500.00	7,618.00	13,732.21	7,730.00	85.35	88.63	-109.46	-3,195.91	3,524.69	339.17	200.74	138.43	2.450	
13,600.00	7,618.00	13,832.21	7,730.00	86.67	89.83	-109.46	-3,295.91	3,524.35	339.17	197.80	141.37	2.399	
13,700.00	7,618.00	13,932.21	7,730.00	88.02	91.06	-109.46	-3,395.91	3,524.02	339.17	194.84	144.33	2.350	
13,800.00	7,618.00	14,032.21	7,730.00	89.38	92.33	-109.46	-3,495.91	3,523.68	339.17	191.87	147.31	2.303	
13,900.00	7,618.00	14,132.21	7,730.00	90.77	93.61	-109.46	-3,595.91	3,523.34	339.17	188.87	150.30	2.257	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,618.00	14,232.21	7,730.00	92.17	94.92	-109.46	-3,695.91	3,523.00	339.17	185.86	153.31	2.212	
14,100.00	7,618.00	14,332.21	7,730.00	93.59	96.26	-109.46	-3,795.90	3,522.66	339.18	182.84	156.33	2.170	
14,200.00	7,618.00	14,432.21	7,730.00	95.02	97.61	-109.46	-3,895.90	3,522.33	339.18	179.80	159.37	2.128	
14,300.00	7,618.00	14,532.21	7,730.00	96.47	98.98	-109.46	-3,995.90	3,521.99	339.18	176.75	162.43	2.088	
14,400.00	7,618.00	14,632.21	7,730.00	97.93	100.37	-109.46	-4,095.90	3,521.65	339.18	173.69	165.49	2.050	
14,500.00	7,618.00	14,732.21	7,730.00	99.41	101.78	-109.46	-4,195.90	3,521.31	339.18	170.62	168.57	2.012	
14,600.00	7,618.00	14,832.21	7,730.00	100.89	103.20	-109.46	-4,295.90	3,520.98	339.18	167.53	171.65	1.976	
14,700.00	7,618.00	14,932.21	7,730.00	102.38	104.64	-109.46	-4,395.90	3,520.64	339.18	164.43	174.75	1.941	
14,800.00	7,618.00	15,032.21	7,730.00	103.89	106.08	-109.46	-4,495.90	3,520.30	339.19	161.33	177.86	1.907	
14,900.00	7,618.00	15,132.21	7,730.00	105.40	107.54	-109.46	-4,595.90	3,519.96	339.19	158.21	180.98	1.874	
15,000.00	7,618.00	15,232.21	7,730.00	106.92	109.02	-109.46	-4,695.90	3,519.63	339.19	155.09	184.10	1.842	
15,100.00	7,618.00	15,332.21	7,730.00	108.45	110.50	-109.46	-4,795.90	3,519.29	339.19	151.95	187.24	1.812	
15,200.00	7,618.00	15,432.21	7,730.00	109.99	111.99	-109.46	-4,895.90	3,518.95	339.19	148.81	190.38	1.782	
15,300.00	7,618.00	15,532.21	7,730.00	111.54	113.49	-109.46	-4,995.90	3,518.61	339.19	145.66	193.53	1.753	
15,400.00	7,618.00	15,632.21	7,730.00	113.09	115.01	-109.46	-5,095.90	3,518.28	339.19	142.51	196.69	1.725	
15,500.00	7,618.00	15,732.21	7,730.00	114.65	116.53	-109.46	-5,195.90	3,517.94	339.20	139.34	199.85	1.697	
15,600.00	7,618.00	15,832.21	7,730.00	116.21	118.05	-109.46	-5,295.90	3,517.60	339.20	136.17	203.03	1.671	
15,700.00	7,618.00	15,932.21	7,730.00	117.78	119.59	-109.46	-5,395.90	3,517.26	339.20	133.00	206.20	1.645	
15,800.00	7,618.00	16,032.21	7,730.00	119.36	121.13	-109.46	-5,495.90	3,516.93	339.20	129.81	209.39	1.620	
15,900.00	7,618.00	16,132.21	7,730.00	120.94	122.68	-109.46	-5,595.89	3,516.59	339.20	126.62	212.58	1.596	
16,000.00	7,618.00	16,232.21	7,730.00	122.53	124.24	-109.46	-5,695.89	3,516.25	339.20	123.43	215.77	1.572	
16,100.00	7,618.00	16,332.21	7,730.00	124.12	125.80	-109.46	-5,795.89	3,515.91	339.20	120.23	218.97	1.549	
16,200.00	7,618.00	16,432.21	7,730.00	125.72	127.37	-109.46	-5,895.89	3,515.57	339.21	117.03	222.18	1.527	
16,300.00	7,618.00	16,532.21	7,730.00	127.32	128.94	-109.46	-5,995.89	3,515.24	339.21	113.82	225.39	1.505	
16,400.00	7,618.00	16,632.21	7,730.00	128.93	130.52	-109.46	-6,095.89	3,514.90	339.21	110.60	228.61	1.484	Level 3
16,500.00	7,618.00	16,732.21	7,730.00	130.54	132.10	-109.46	-6,195.89	3,514.56	339.21	107.38	231.83	1.463	Level 3
16,600.00	7,618.00	16,832.21	7,730.00	132.15	133.69	-109.46	-6,295.89	3,514.22	339.21	104.16	235.05	1.443	Level 3
16,700.00	7,618.00	16,932.21	7,730.00	133.77	135.28	-109.46	-6,395.89	3,513.89	339.21	100.93	238.28	1.424	Level 3
16,800.00	7,618.00	17,032.21	7,730.00	135.39	136.88	-109.46	-6,495.89	3,513.55	339.21	97.70	241.51	1.405	Level 3
16,900.00	7,618.00	17,132.21	7,730.00	137.01	138.48	-109.46	-6,595.89	3,513.21	339.22	94.47	244.75	1.386	Level 3
17,000.00	7,618.00	17,232.21	7,730.00	138.64	140.09	-109.46	-6,695.89	3,512.87	339.22	91.23	247.99	1.368	Level 3
17,100.00	7,618.00	17,332.21	7,730.00	140.27	141.70	-109.46	-6,795.89	3,512.54	339.22	87.99	251.23	1.350	Level 3
17,200.00	7,618.00	17,432.21	7,730.00	141.91	143.31	-109.46	-6,895.89	3,512.20	339.22	84.74	254.48	1.333	Level 3
17,300.00	7,618.00	17,532.21	7,730.00	143.55	144.93	-109.46	-6,995.89	3,511.86	339.22	81.49	257.73	1.316	Level 3
17,400.00	7,618.00	17,632.21	7,730.00	145.19	146.55	-109.46	-7,095.89	3,511.52	339.22	78.24	260.98	1.300	Level 3
17,500.00	7,618.00	17,732.21	7,730.00	146.83	148.18	-109.46	-7,195.89	3,511.19	339.22	74.99	264.24	1.284	Level 3
17,600.00	7,618.00	17,832.21	7,730.00	148.48	149.81	-109.46	-7,295.89	3,510.85	339.23	71.73	267.50	1.268	Level 3
17,700.00	7,618.00	17,932.21	7,730.00	150.13	151.44	-109.46	-7,395.88	3,510.51	339.23	68.47	270.76	1.253	Level 3
17,800.00	7,618.00	18,032.21	7,730.00	151.78	153.07	-109.46	-7,495.88	3,510.17	339.23	65.21	274.02	1.238	Level 2
17,900.00	7,618.00	18,132.21	7,730.00	153.43	154.71	-109.46	-7,595.88	3,509.84	339.23	61.94	277.29	1.223	Level 2
18,000.00	7,618.00	18,232.21	7,730.00	155.09	156.35	-109.46	-7,695.88	3,509.50	339.23	58.67	280.56	1.209	Level 2
18,100.00	7,618.00	18,332.21	7,730.00	156.75	157.99	-109.46	-7,795.88	3,509.16	339.23	55.40	283.83	1.195	Level 2
18,200.00	7,618.00	18,432.21	7,730.00	158.41	159.64	-109.46	-7,895.88	3,508.82	339.23	52.13	287.11	1.182	Level 2
18,300.00	7,618.00	18,532.21	7,730.00	160.07	161.28	-109.46	-7,995.88	3,508.48	339.24	48.85	290.38	1.168	Level 2
18,400.00	7,618.00	18,632.21	7,730.00	161.74	162.93	-109.46	-8,095.88	3,508.15	339.24	45.58	293.66	1.155	Level 2
18,500.00	7,618.00	18,732.21	7,730.00	163.41	164.59	-109.46	-8,195.88	3,507.81	339.24	42.30	296.94	1.142	Level 2
18,600.00	7,618.00	18,832.21	7,730.00	165.08	166.24	-109.46	-8,295.88	3,507.47	339.24	39.02	300.23	1.130	Level 2
18,700.00	7,618.00	18,932.21	7,730.00	166.75	167.90	-109.46	-8,395.88	3,507.13	339.24	35.73	303.51	1.118	Level 2
18,711.30	7,618.00	18,943.51	7,730.00	166.94	168.09	-109.46	-8,407.18	3,507.10	339.24	35.36	303.88	1.116	Level 2, SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	-1.00	0.00	0.00	91.04	-0.36	20.16	20.16				
100.00	100.00	101.00	99.00	0.13	0.14	91.04	-0.36	20.16	20.16	19.89	0.27	74.011	
200.00	200.00	201.00	199.00	0.49	0.50	91.04	-0.36	20.16	20.16	19.17	0.99	20.380	
300.00	300.00	301.00	299.00	0.85	0.85	91.04	-0.36	20.16	20.16	18.46	1.71	11.817	
400.00	400.00	401.00	399.00	1.21	1.21	91.04	-0.36	20.16	20.16	17.74	2.42	8.321	
500.00	500.00	501.00	499.00	1.57	1.57	91.04	-0.36	20.16	20.16	17.02	3.14	6.421	
600.00	600.00	601.00	599.00	1.93	1.93	91.04	-0.36	20.16	20.16	16.31	3.86	5.228	
700.00	700.00	699.00	699.00	2.29	2.28	91.04	-0.36	20.16	20.16	15.60	4.57	4.415	CC, ES
800.00	800.00	798.36	798.34	2.64	2.63	88.85	0.43	21.65	21.66	16.39	5.28	4.106	
900.00	900.00	897.47	897.32	3.00	2.99	83.78	2.85	26.16	26.36	20.39	5.98	4.410	
1,000.00	999.98	996.27	995.75	3.36	3.34	22.31	6.87	33.65	32.88	26.21	6.67	4.932	
1,100.00	1,099.84	1,094.84	1,093.59	3.71	3.71	19.86	12.48	44.10	39.56	32.21	7.35	5.385	
1,200.00	1,199.45	1,193.18	1,190.75	4.07	4.09	18.45	19.66	57.48	46.31	38.29	8.02	5.774	
1,300.00	1,298.70	1,291.29	1,287.11	4.44	4.49	17.69	28.38	73.74	53.10	44.41	8.69	6.109	
1,400.00	1,397.47	1,389.18	1,382.55	4.82	4.92	17.37	38.64	92.86	59.90	50.54	9.36	6.399	
1,500.00	1,495.62	1,486.85	1,476.99	5.22	5.38	17.34	50.40	114.78	66.69	56.66	10.03	6.649	
1,600.00	1,593.06	1,584.29	1,570.32	5.65	5.87	17.53	63.65	139.47	73.47	62.77	10.70	6.865	
1,700.00	1,689.64	1,681.53	1,662.43	6.11	6.41	17.88	78.35	166.88	80.23	68.85	11.38	7.049	
1,800.00	1,785.27	1,778.54	1,753.25	6.61	6.99	18.34	94.49	196.96	86.98	74.90	12.07	7.205	
1,900.00	1,879.82	1,875.36	1,842.66	7.15	7.63	18.90	112.04	229.66	93.70	80.92	12.78	7.333	
2,000.00	1,973.17	1,971.96	1,930.58	7.73	8.31	19.53	130.96	264.93	100.39	86.89	13.50	7.434	
2,100.00	2,065.21	2,068.37	2,016.93	8.37	9.05	20.22	151.22	302.70	107.06	92.80	14.26	7.508	
2,200.00	2,155.84	2,164.58	2,101.61	9.07	9.85	20.95	172.81	342.93	113.71	98.66	15.05	7.556	
2,300.00	2,244.94	2,260.60	2,184.55	9.82	10.71	21.73	195.68	385.56	120.33	104.45	15.88	7.577	
2,400.00	2,332.39	2,356.44	2,265.67	10.64	11.63	22.54	219.80	430.52	126.92	110.16	16.76	7.571	
2,500.00	2,418.11	2,452.09	2,344.89	11.53	12.61	23.37	245.14	477.76	133.49	115.78	17.71	7.538	
2,558.91	2,467.74	2,517.32	2,390.48	12.08	13.30	23.87	260.57	506.51	137.34	119.01	18.34	7.490	
2,600.00	2,502.13	2,549.15	2,423.53	12.47	13.66	24.24	272.03	527.88	140.09	121.30	18.79	7.457	
2,700.00	2,585.83	2,648.90	2,503.97	13.45	14.77	25.09	299.92	579.86	146.80	126.76	20.05	7.323	
2,800.00	2,669.53	2,748.66	2,584.41	14.44	15.91	25.87	327.81	631.84	153.55	132.20	21.35	7.193	
2,900.00	2,753.22	2,848.41	2,664.85	15.46	17.06	26.58	355.70	683.82	160.31	137.63	22.68	7.067	
3,000.00	2,836.92	2,948.16	2,745.29	16.48	18.21	27.24	383.59	735.80	167.10	143.05	24.06	6.947	
3,100.00	2,920.62	3,047.91	2,825.73	17.52	19.38	27.84	411.48	787.79	173.91	148.46	25.46	6.832	
3,200.00	3,004.32	3,147.66	2,906.17	18.56	20.55	28.40	439.37	839.77	180.74	153.86	26.88	6.724	
3,300.00	3,088.01	3,247.42	2,986.61	19.61	21.73	28.91	467.25	891.75	187.58	159.25	28.33	6.621	
3,400.00	3,171.71	3,347.17	3,067.05	20.67	22.92	29.39	495.14	943.73	194.44	164.64	29.80	6.525	
3,500.00	3,255.41	3,446.92	3,147.49	21.73	24.11	29.84	523.03	995.71	201.31	170.02	31.29	6.434	
3,600.00	3,339.10	3,546.67	3,227.93	22.80	25.30	30.26	550.92	1,047.70	208.19	175.40	32.79	6.349	
3,700.00	3,422.80	3,646.42	3,308.37	23.87	26.50	30.65	578.81	1,099.68	215.08	180.78	34.31	6.269	
3,800.00	3,506.50	3,746.17	3,388.81	24.94	27.70	31.02	606.70	1,151.66	221.99	186.15	35.84	6.194	
3,900.00	3,590.20	3,845.93	3,469.24	26.02	28.90	31.36	634.59	1,203.64	228.90	191.51	37.38	6.123	
4,000.00	3,673.89	3,945.68	3,549.68	27.10	30.11	31.68	662.48	1,255.63	235.81	196.87	38.94	6.056	
4,100.00	3,757.59	4,045.43	3,630.12	28.18	31.31	31.99	690.37	1,307.61	242.74	202.23	40.50	5.993	
4,200.00	3,841.29	4,145.18	3,710.56	29.26	32.52	32.28	718.26	1,359.59	249.67	207.59	42.08	5.934	
4,300.00	3,924.99	4,244.93	3,791.00	30.35	33.73	32.55	746.15	1,411.57	256.61	212.95	43.66	5.878	
4,400.00	4,008.68	4,344.69	3,871.44	31.44	34.94	32.81	774.03	1,463.55	263.55	218.30	45.25	5.825	
4,500.00	4,092.38	4,444.44	3,951.88	32.52	36.16	33.06	801.92	1,515.54	270.50	223.65	46.84	5.775	
4,600.00	4,176.08	4,544.19	4,032.32	33.62	37.37	33.29	829.81	1,567.52	277.45	229.01	48.44	5.727	
4,700.00	4,259.77	4,643.94	4,112.76	34.71	38.59	33.51	857.70	1,619.50	284.40	234.35	50.05	5.682	
4,800.00	4,343.47	4,743.69	4,193.20	35.80	39.80	33.72	885.59	1,671.48	291.37	239.70	51.66	5.640	
4,900.00	4,427.17	4,843.44	4,273.64	36.89	41.02	33.93	913.48	1,723.47	298.33	245.05	53.28	5.599	
5,000.00	4,510.87	4,943.20	4,354.08	37.99	42.23	34.12	941.37	1,775.45	305.30	250.40	54.90	5.561	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	5,042.95	4,434.52	39.08	43.45	34.30	969.26	1,827.43	312.27	255.74	56.53	5.524	
5,200.00	4,678.26	5,142.70	4,514.96	40.18	44.67	34.48	997.15	1,879.41	319.24	261.08	58.16	5.489	
5,300.00	4,761.96	5,242.45	4,595.39	41.28	45.89	34.65	1,025.04	1,931.39	326.22	266.43	59.79	5.456	
5,400.00	4,845.66	5,342.20	4,675.83	42.37	47.11	34.81	1,052.92	1,983.38	333.20	271.77	61.43	5.424	
5,500.00	4,929.35	5,441.96	4,756.27	43.47	48.33	34.96	1,080.81	2,035.36	340.18	277.11	63.07	5.394	
5,600.00	5,013.05	5,541.71	4,836.71	44.57	49.55	35.11	1,108.70	2,087.34	347.17	282.45	64.71	5.365	
5,700.00	5,096.75	5,641.46	4,917.15	45.67	50.77	35.25	1,136.59	2,139.32	354.16	287.80	66.36	5.337	
5,800.00	5,180.45	5,741.21	4,997.59	46.77	51.99	35.39	1,164.48	2,191.30	361.14	293.14	68.01	5.310	
5,900.00	5,264.14	5,840.96	5,078.03	47.87	53.22	35.52	1,192.37	2,243.29	368.14	298.48	69.66	5.285	
6,000.00	5,347.84	5,940.71	5,158.47	48.97	54.44	35.65	1,220.26	2,295.27	375.13	303.82	71.31	5.260	
6,100.00	5,431.54	6,040.47	5,238.91	50.07	55.66	35.77	1,248.15	2,347.25	382.12	309.15	72.97	5.237	
6,200.00	5,515.23	6,140.22	5,319.35	51.17	56.88	35.89	1,276.04	2,399.23	389.12	314.49	74.63	5.214	
6,300.00	5,598.93	6,239.97	5,399.79	52.27	58.11	36.00	1,303.93	2,451.22	396.12	319.83	76.29	5.193	
6,400.00	5,682.63	6,339.72	5,480.23	53.38	59.33	36.11	1,331.82	2,503.20	403.12	325.17	77.95	5.172	
6,500.00	5,766.33	6,439.47	5,560.67	54.48	60.56	36.22	1,359.70	2,555.18	410.12	330.51	79.61	5.152	
6,600.00	5,850.02	6,539.23	5,641.11	55.58	61.78	36.32	1,387.59	2,607.16	417.12	335.85	81.27	5.132	
6,700.00	5,933.72	6,638.98	5,721.55	56.68	63.00	36.42	1,415.48	2,659.14	424.12	341.18	82.94	5.114	
6,800.00	6,017.42	6,738.73	5,801.98	57.79	64.23	36.51	1,443.37	2,711.13	431.13	346.52	84.61	5.096	
6,900.00	6,101.12	6,838.48	5,882.42	58.89	65.45	36.61	1,471.26	2,763.11	438.13	351.86	86.28	5.078	
7,000.00	6,184.81	6,938.23	5,962.86	59.99	66.68	36.70	1,499.15	2,815.09	445.14	357.20	87.95	5.062	
7,100.00	6,268.51	7,037.98	6,043.30	61.10	67.90	36.78	1,527.04	2,867.07	452.15	362.53	89.62	5.045	
7,200.00	6,352.21	7,137.74	6,123.74	62.20	69.13	36.87	1,554.93	2,919.05	459.16	367.87	91.29	5.030	
7,300.00	6,435.90	7,237.49	6,204.18	63.31	70.35	36.95	1,582.82	2,971.04	466.17	373.20	92.96	5.015	
7,400.00	6,519.60	7,337.24	6,284.62	64.41	71.58	37.03	1,610.71	3,023.02	473.18	378.54	94.64	5.000	
7,500.00	6,603.30	7,436.99	6,365.06	65.51	72.80	37.11	1,638.59	3,075.00	480.19	383.88	96.31	4.986	
7,600.00	6,687.00	7,536.74	6,445.50	66.62	74.03	37.18	1,666.48	3,126.98	487.20	389.21	97.99	4.972	
7,700.00	6,770.69	7,636.50	6,525.94	67.72	75.26	37.25	1,694.37	3,178.97	494.22	394.55	99.67	4.959	
7,800.00	6,854.39	7,736.25	6,606.38	68.83	76.48	37.32	1,722.26	3,230.95	501.23	399.89	101.35	4.946	
7,900.00	6,938.09	7,836.00	6,686.82	69.93	77.71	37.39	1,750.15	3,282.93	508.25	405.22	103.02	4.933	
7,933.18	6,965.86	7,869.10	6,713.51	70.30	78.12	37.42	1,759.40	3,300.18	510.57	406.99	103.58	4.929	
7,950.00	6,980.00	7,885.88	6,727.04	70.49	78.32	35.19	1,764.10	3,308.92	511.72	407.89	103.83	4.929	
8,000.00	7,022.68	7,935.67	6,767.19	71.01	78.93	27.55	1,778.02	3,334.87	514.66	410.57	104.09	4.944	
8,050.00	7,066.06	7,985.02	6,806.99	71.51	79.54	18.51	1,791.81	3,360.59	517.00	413.33	103.67	4.987	
8,100.00	7,109.82	8,033.57	6,846.13	71.97	80.14	8.44	1,805.39	3,385.88	518.90	416.35	102.55	5.060	
8,150.00	7,153.63	8,080.93	6,884.33	72.38	80.72	-2.11	1,818.63	3,410.57	520.62	419.87	100.76	5.167	
8,200.00	7,197.14	8,126.76	6,921.29	72.74	81.28	-12.55	1,831.44	3,434.45	522.53	424.21	98.33	5.314	
8,250.00	7,240.04	8,170.70	6,956.72	73.05	81.82	-22.40	1,843.73	3,457.35	525.06	429.71	95.35	5.507	
8,300.00	7,281.99	8,212.42	6,990.36	73.31	82.34	-31.35	1,855.39	3,479.09	528.68	436.71	91.97	5.748	
8,350.00	7,322.67	8,252.62	7,022.80	73.52	82.83	-39.30	1,866.51	3,500.05	533.90	445.46	88.44	6.037	
8,400.00	7,361.77	8,295.77	7,058.13	73.68	83.35	-46.39	1,876.12	3,522.87	540.90	455.56	85.34	6.338	
8,450.00	7,399.01	8,341.47	7,096.10	73.78	83.87	-52.64	1,882.82	3,547.39	549.63	466.73	82.90	6.630	
8,500.00	7,434.08	8,390.32	7,137.05	73.85	84.41	-58.19	1,885.98	3,573.81	559.99	478.78	81.21	6.896	
8,550.00	7,466.74	8,443.12	7,181.39	73.87	84.94	-63.18	1,884.71	3,602.41	571.84	491.64	80.19	7.131	
8,600.00	7,496.72	8,500.90	7,229.58	73.85	85.46	-67.74	1,877.76	3,633.48	584.94	505.27	79.67	7.342	
8,650.00	7,523.80	8,565.01	7,282.07	73.79	85.96	-71.98	1,863.34	3,667.29	599.00	519.65	79.35	7.549	
8,700.00	7,547.77	8,637.18	7,339.13	73.70	86.42	-75.98	1,838.89	3,704.01	613.58	534.70	78.88	7.779	
8,750.00	7,568.45	8,719.55	7,400.50	73.58	86.81	-79.79	1,800.84	3,743.47	628.14	550.14	78.00	8.053	
8,800.00	7,585.69	8,814.49	7,464.73	73.43	87.09	-83.39	1,744.55	3,784.71	641.94	565.22	76.71	8.368	
8,850.00	7,599.35	8,924.14	7,528.02	73.26	87.21	-86.62	1,664.95	3,825.27	654.05	578.37	75.69	8.641	
8,900.00	7,609.33	9,049.12	7,583.15	73.07	87.11	-89.21	1,558.75	3,860.48	663.39	586.82	76.57	8.664	
8,950.00	7,615.55	9,186.84	7,619.97	72.87	86.76	-90.79	1,428.46	3,883.79	668.87	587.50	81.36	8.221	
9,000.00	7,617.97	9,313.20	7,630.00	72.65	86.32	-91.11	1,302.90	3,889.84	669.82	581.50	88.32	7.584	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,006.57	7,618.00	9,319.76	7,630.00	72.62	86.29	-91.11	1,296.33	3,889.82	669.81	581.56	88.24	7.590	
9,006.60	7,618.00	9,319.80	7,630.00	72.62	86.29	-91.11	1,296.29	3,889.82	669.81	581.56	88.24	7.590	
9,100.00	7,618.00	9,413.20	7,630.00	72.22	85.94	-91.11	1,202.90	3,889.50	669.81	582.61	87.20	7.682	
9,200.00	7,618.00	9,513.20	7,630.00	71.80	85.58	-91.11	1,102.90	3,889.17	669.81	583.61	86.20	7.770	
9,300.00	7,618.00	9,613.20	7,630.00	71.41	85.23	-91.11	1,002.90	3,888.83	669.82	584.47	85.34	7.849	
9,400.00	7,618.00	9,713.20	7,630.00	71.04	84.91	-91.11	902.90	3,888.50	669.82	585.20	84.62	7.916	
9,500.00	7,618.00	9,813.20	7,630.00	70.68	84.60	-91.11	802.90	3,888.16	669.82	585.78	84.04	7.970	
9,600.00	7,618.00	9,913.20	7,630.00	70.35	84.30	-91.11	702.90	3,887.82	669.82	586.22	83.61	8.011	
9,700.00	7,618.00	10,013.20	7,630.00	70.04	84.03	-91.11	602.90	3,887.49	669.83	586.50	83.32	8.039	
9,800.00	7,618.00	10,113.20	7,630.00	69.75	83.77	-91.11	502.90	3,887.15	669.83	586.64	83.19	8.052	
9,900.00	7,618.00	10,213.20	7,630.00	69.47	83.52	-91.11	402.90	3,886.82	669.83	586.63	83.20	8.051	
10,000.00	7,618.00	10,313.20	7,630.00	69.22	83.30	-91.11	302.90	3,886.48	669.84	586.47	83.37	8.035	
10,100.00	7,618.00	10,413.20	7,630.00	68.99	83.09	-91.11	202.90	3,886.14	669.84	586.16	83.68	8.005	
10,200.00	7,618.00	10,513.20	7,630.00	68.78	82.90	-91.11	102.90	3,885.81	669.84	585.70	84.14	7.961	
10,300.00	7,618.00	10,613.20	7,630.00	68.59	82.72	-91.11	2.90	3,885.47	669.85	585.10	84.75	7.904	
10,400.00	7,618.00	10,713.20	7,630.00	68.42	82.57	-91.11	-97.10	3,885.14	669.85	584.36	85.49	7.835	
10,500.00	7,618.00	10,813.20	7,630.00	68.28	82.43	-91.11	-197.10	3,884.80	669.85	583.47	86.38	7.755	
10,600.00	7,618.00	10,913.20	7,630.00	68.16	82.31	-91.11	-297.10	3,884.46	669.86	582.46	87.40	7.664	
10,700.00	7,618.00	11,013.20	7,630.00	68.06	82.21	-91.11	-397.09	3,884.13	669.86	581.31	88.55	7.565	
10,800.00	7,618.00	11,113.20	7,630.00	67.99	82.13	-91.11	-497.09	3,883.79	669.86	580.04	89.82	7.458	
10,900.00	7,618.00	11,213.20	7,630.00	67.95	82.07	-91.11	-597.09	3,883.46	669.87	578.65	91.22	7.344	
11,000.00	7,618.00	11,313.20	7,630.00	67.95	82.04	-91.11	-697.09	3,883.12	669.87	577.15	92.72	7.224	
11,100.00	7,618.00	11,413.20	7,630.00	67.97	82.02	-91.11	-797.09	3,882.78	669.87	575.53	94.34	7.101	
11,200.00	7,618.00	11,513.20	7,630.00	68.04	82.03	-91.11	-897.09	3,882.45	669.88	573.82	96.06	6.974	
11,300.00	7,618.00	11,613.20	7,630.00	68.15	82.07	-91.11	-997.09	3,882.11	669.88	572.01	97.87	6.844	
11,400.00	7,618.00	11,713.20	7,630.00	68.30	82.13	-91.11	-1,097.09	3,881.78	669.88	570.10	99.78	6.714	
11,500.00	7,618.00	11,813.20	7,630.00	68.50	82.22	-91.11	-1,197.09	3,881.44	669.89	568.11	101.77	6.582	
11,600.00	7,618.00	11,913.20	7,630.00	68.75	82.35	-91.11	-1,297.09	3,881.10	669.89	566.04	103.85	6.450	
11,700.00	7,618.00	12,013.20	7,630.00	69.06	82.50	-91.11	-1,397.09	3,880.77	669.89	563.89	106.01	6.319	
11,800.00	7,618.00	12,113.20	7,630.00	69.44	82.69	-91.11	-1,497.09	3,880.43	669.89	561.66	108.23	6.189	
11,900.00	7,618.00	12,213.20	7,630.00	69.88	82.92	-91.11	-1,597.09	3,880.10	669.90	559.37	110.53	6.061	
12,000.00	7,618.00	12,313.20	7,630.00	70.39	83.18	-91.11	-1,697.09	3,879.76	669.90	557.02	112.88	5.934	
12,100.00	7,618.00	12,413.20	7,630.00	70.97	83.49	-91.11	-1,797.09	3,879.42	669.90	554.60	115.30	5.810	
12,200.00	7,618.00	12,513.20	7,630.00	71.63	83.84	-91.11	-1,897.09	3,879.09	669.91	552.13	117.78	5.688	
12,300.00	7,618.00	12,613.20	7,630.00	72.35	84.23	-91.11	-1,997.09	3,878.75	669.91	549.60	120.31	5.568	
12,400.00	7,618.00	12,713.20	7,630.00	73.15	84.67	-91.11	-2,097.09	3,878.42	669.91	547.03	122.88	5.452	
12,500.00	7,618.00	12,813.20	7,630.00	74.01	85.17	-91.11	-2,197.08	3,878.08	669.92	544.41	125.51	5.338	
12,600.00	7,618.00	12,913.20	7,630.00	74.93	85.71	-91.11	-2,297.08	3,877.74	669.92	541.75	128.17	5.227	
12,700.00	7,618.00	13,013.20	7,630.00	75.91	86.30	-91.11	-2,397.08	3,877.41	669.92	539.04	130.88	5.118	
12,800.00	7,618.00	13,113.20	7,630.00	76.95	86.95	-91.11	-2,497.08	3,877.07	669.93	536.30	133.63	5.013	
12,900.00	7,618.00	13,213.20	7,630.00	78.04	87.65	-91.11	-2,597.08	3,876.74	669.93	533.52	136.41	4.911	
13,000.00	7,618.00	13,313.20	7,630.00	79.16	88.40	-91.11	-2,697.08	3,876.40	669.93	530.70	139.23	4.812	
13,100.00	7,618.00	13,413.20	7,630.00	80.33	89.21	-91.11	-2,797.08	3,876.06	669.94	527.85	142.08	4.715	
13,200.00	7,618.00	13,513.20	7,630.00	81.54	90.06	-91.11	-2,897.08	3,875.73	669.94	524.98	144.96	4.622	
13,300.00	7,618.00	13,613.20	7,630.00	82.78	90.96	-91.11	-2,997.08	3,875.39	669.94	522.07	147.87	4.531	
13,400.00	7,618.00	13,713.20	7,630.00	84.05	91.91	-91.11	-3,097.08	3,875.06	669.95	519.14	150.80	4.443	
13,500.00	7,618.00	13,813.20	7,630.00	85.35	92.90	-91.11	-3,197.08	3,874.72	669.95	516.19	153.76	4.357	
13,600.00	7,618.00	13,913.20	7,630.00	86.67	93.93	-91.11	-3,297.08	3,874.39	669.95	513.20	156.75	4.274	
13,700.00	7,618.00	14,013.20	7,630.00	88.02	95.01	-91.11	-3,397.08	3,874.05	669.95	510.20	159.75	4.194	
13,800.00	7,618.00	14,113.20	7,630.00	89.38	96.12	-91.11	-3,497.08	3,873.71	669.96	507.18	162.78	4.116	
13,900.00	7,618.00	14,213.20	7,630.00	90.77	97.26	-91.11	-3,597.08	3,873.38	669.96	504.13	165.83	4.040	
14,000.00	7,618.00	14,313.20	7,630.00	92.17	98.44	-91.11	-3,697.08	3,873.04	669.96	501.07	168.89	3.967	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,618.00	14,413.20	7,630.00	93.59	99.65	-91.11	-3,797.08	3,872.71	669.97	497.99	171.98	3.896	
14,200.00	7,618.00	14,513.20	7,630.00	95.02	100.88	-91.11	-3,897.08	3,872.37	669.97	494.89	175.08	3.827	
14,300.00	7,618.00	14,613.20	7,630.00	96.47	102.14	-91.11	-3,997.07	3,872.03	669.97	491.78	178.20	3.760	
14,400.00	7,618.00	14,713.20	7,630.00	97.93	103.43	-91.11	-4,097.07	3,871.70	669.98	488.65	181.33	3.695	
14,500.00	7,618.00	14,813.20	7,630.00	99.41	104.74	-91.11	-4,197.07	3,871.36	669.98	485.50	184.48	3.632	
14,600.00	7,618.00	14,913.20	7,630.00	100.89	106.07	-91.11	-4,297.07	3,871.03	669.98	482.34	187.64	3.571	
14,700.00	7,618.00	15,013.20	7,630.00	102.38	107.41	-91.11	-4,397.07	3,870.69	669.99	479.17	190.81	3.511	
14,800.00	7,618.00	15,113.20	7,630.00	103.89	108.78	-91.11	-4,497.07	3,870.35	669.99	475.99	194.00	3.454	
14,900.00	7,618.00	15,213.20	7,630.00	105.40	110.17	-91.11	-4,597.07	3,870.02	669.99	472.80	197.20	3.398	
15,000.00	7,618.00	15,313.20	7,630.00	106.92	111.57	-91.11	-4,697.07	3,869.68	670.00	469.59	200.41	3.343	
15,100.00	7,618.00	15,413.20	7,630.00	108.45	112.98	-91.11	-4,797.07	3,869.35	670.00	466.37	203.63	3.290	
15,200.00	7,618.00	15,513.20	7,630.00	109.99	114.41	-91.11	-4,897.07	3,869.01	670.00	463.14	206.86	3.239	
15,300.00	7,618.00	15,613.20	7,630.00	111.54	115.85	-91.11	-4,997.07	3,868.67	670.01	459.91	210.10	3.189	
15,400.00	7,618.00	15,713.20	7,630.00	113.09	117.30	-91.11	-5,097.07	3,868.34	670.01	456.66	213.35	3.140	
15,500.00	7,618.00	15,813.20	7,630.00	114.65	118.77	-91.11	-5,197.07	3,868.00	670.01	453.41	216.61	3.093	
15,600.00	7,618.00	15,913.20	7,630.00	116.21	120.24	-91.11	-5,297.07	3,867.67	670.02	450.14	219.87	3.047	
15,700.00	7,618.00	16,013.20	7,630.00	117.78	121.73	-91.11	-5,397.07	3,867.33	670.02	446.87	223.15	3.003	
15,800.00	7,618.00	16,113.20	7,630.00	119.36	123.22	-91.11	-5,497.07	3,866.99	670.02	443.59	226.43	2.959	
15,900.00	7,618.00	16,213.20	7,630.00	120.94	124.73	-91.11	-5,597.07	3,866.66	670.02	440.30	229.72	2.917	
16,000.00	7,618.00	16,313.20	7,630.00	122.53	126.24	-91.11	-5,697.07	3,866.32	670.03	437.01	233.02	2.875	
16,100.00	7,618.00	16,413.20	7,630.00	124.12	127.76	-91.11	-5,797.06	3,865.99	670.03	433.71	236.32	2.835	
16,200.00	7,618.00	16,513.20	7,630.00	125.72	129.29	-91.11	-5,897.06	3,865.65	670.03	430.40	239.64	2.796	
16,300.00	7,618.00	16,613.20	7,630.00	127.32	130.83	-91.11	-5,997.06	3,865.31	670.04	427.08	242.95	2.758	
16,400.00	7,618.00	16,713.20	7,630.00	128.93	132.37	-91.11	-6,097.06	3,864.98	670.04	423.76	246.28	2.721	
16,500.00	7,618.00	16,813.20	7,630.00	130.54	133.92	-91.11	-6,197.06	3,864.64	670.04	420.44	249.60	2.684	
16,600.00	7,618.00	16,913.20	7,630.00	132.15	135.47	-91.11	-6,297.06	3,864.31	670.05	417.11	252.94	2.649	
16,700.00	7,618.00	17,013.20	7,630.00	133.77	137.03	-91.11	-6,397.06	3,863.97	670.05	413.77	256.28	2.615	
16,800.00	7,618.00	17,113.20	7,630.00	135.39	138.60	-91.11	-6,497.06	3,863.63	670.05	410.43	259.62	2.581	
16,900.00	7,618.00	17,213.20	7,630.00	137.01	140.17	-91.11	-6,597.06	3,863.30	670.06	407.08	262.97	2.548	
17,000.00	7,618.00	17,313.20	7,630.00	138.64	141.75	-91.11	-6,697.06	3,862.96	670.06	403.73	266.33	2.516	
17,100.00	7,618.00	17,413.20	7,630.00	140.27	143.33	-91.11	-6,797.06	3,862.63	670.06	400.37	269.69	2.485	
17,200.00	7,618.00	17,513.20	7,630.00	141.91	144.92	-91.11	-6,897.06	3,862.29	670.07	397.01	273.05	2.454	
17,300.00	7,618.00	17,613.20	7,630.00	143.55	146.51	-91.11	-6,997.06	3,861.95	670.07	393.65	276.42	2.424	
17,400.00	7,618.00	17,713.20	7,630.00	145.19	148.11	-91.11	-7,097.06	3,861.62	670.07	390.28	279.79	2.395	
17,500.00	7,618.00	17,813.20	7,630.00	146.83	149.71	-91.11	-7,197.06	3,861.28	670.08	386.91	283.17	2.366	
17,600.00	7,618.00	17,913.20	7,630.00	148.48	151.31	-91.11	-7,297.06	3,860.95	670.08	383.53	286.55	2.338	
17,700.00	7,618.00	18,013.20	7,630.00	150.13	152.92	-91.11	-7,397.06	3,860.61	670.08	380.15	289.93	2.311	
17,800.00	7,618.00	18,113.20	7,630.00	151.78	154.53	-91.11	-7,497.05	3,860.27	670.08	376.77	293.32	2.284	
17,900.00	7,618.00	18,213.20	7,630.00	153.43	156.15	-91.11	-7,597.05	3,859.94	670.09	373.38	296.71	2.258	
18,000.00	7,618.00	18,313.20	7,630.00	155.09	157.77	-91.11	-7,697.05	3,859.60	670.09	369.99	300.10	2.233	
18,100.00	7,618.00	18,413.20	7,630.00	156.75	159.39	-91.11	-7,797.05	3,859.27	670.09	366.59	303.50	2.208	
18,200.00	7,618.00	18,513.20	7,630.00	158.41	161.02	-91.11	-7,897.05	3,858.93	670.10	363.20	306.90	2.183	
18,300.00	7,618.00	18,613.20	7,630.00	160.07	162.65	-91.11	-7,997.05	3,858.59	670.10	359.80	310.30	2.160	
18,400.00	7,618.00	18,713.20	7,630.00	161.74	164.28	-91.11	-8,097.05	3,858.26	670.10	356.39	313.71	2.136	
18,500.00	7,618.00	18,813.20	7,630.00	163.41	165.91	-91.11	-8,197.05	3,857.92	670.11	352.99	317.12	2.113	
18,600.00	7,618.00	18,913.20	7,630.00	165.08	167.55	-91.11	-8,297.05	3,857.59	670.11	349.58	320.53	2.091	
18,700.00	7,618.00	19,013.20	7,630.00	166.75	169.19	-91.11	-8,397.05	3,857.25	670.11	346.17	323.94	2.069	
18,700.00	7,618.00	19,013.20	7,630.00	166.75	169.19	-91.11	-8,397.05	3,857.25	670.11	346.17	323.94	2.069	
18,711.30	7,618.00	19,021.79	7,630.00	166.94	169.33	-91.11	-8,405.64	3,857.22	670.12	345.52	324.60	2.064	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1I-22H-H168 - OWB - PROPOSAL 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	-1.00	0.00	0.00	90.70	-0.36	29.96	29.96				
100.00	100.00	101.00	99.00	0.13	0.14	90.70	-0.36	29.96	29.96	29.69	0.27	109.979	
200.00	200.00	201.00	199.00	0.49	0.50	90.70	-0.36	29.96	29.96	28.97	0.99	30.284	
300.00	300.00	301.00	299.00	0.85	0.85	90.70	-0.36	29.96	29.96	28.26	1.71	17.560	
400.00	400.00	401.00	399.00	1.21	1.21	90.70	-0.36	29.96	29.96	27.54	2.42	12.364	
500.00	500.00	501.00	499.00	1.57	1.57	90.70	-0.36	29.96	29.96	26.82	3.14	9.542	
600.00	600.00	599.00	599.00	1.93	1.92	90.70	-0.36	29.96	29.96	26.11	3.85	7.782	CC, ES
700.00	700.00	698.05	698.03	2.29	2.27	89.32	0.38	31.47	31.48	26.92	4.56	6.907	
800.00	800.00	796.85	796.70	2.64	2.62	85.84	2.62	36.03	36.20	30.94	5.26	6.881	
900.00	900.00	895.19	894.67	3.00	2.98	81.73	6.34	43.60	44.27	38.31	5.96	7.431	
1,000.00	999.98	993.04	991.81	3.36	3.35	21.38	11.51	54.12	54.18	47.54	6.64	8.158	
1,100.00	1,099.84	1,090.56	1,088.17	3.71	3.73	19.54	18.12	67.56	64.23	56.92	7.31	8.783	
1,200.00	1,199.45	1,187.75	1,183.63	4.07	4.13	18.51	26.14	83.88	74.35	66.37	7.98	9.315	
1,300.00	1,298.70	1,284.60	1,278.10	4.44	4.56	17.98	35.55	103.02	84.48	75.83	8.65	9.770	
1,400.00	1,397.47	1,381.13	1,371.49	4.82	5.02	17.79	46.33	124.94	94.60	85.29	9.31	10.161	
1,500.00	1,495.62	1,477.34	1,463.69	5.22	5.51	17.85	58.44	149.58	104.69	94.72	9.98	10.494	
1,600.00	1,593.06	1,573.23	1,554.62	5.65	6.05	18.08	71.87	176.89	114.75	104.11	10.65	10.778	
1,700.00	1,689.64	1,668.81	1,644.19	6.11	6.63	18.45	86.59	206.82	124.77	113.45	11.32	11.018	
1,800.00	1,785.27	1,764.09	1,732.32	6.61	7.26	18.92	102.56	239.30	134.75	122.73	12.01	11.215	
1,900.00	1,879.82	1,859.07	1,818.93	7.15	7.94	19.46	119.75	274.29	144.68	131.95	12.72	11.373	
2,000.00	1,973.17	1,953.76	1,903.94	7.73	8.68	20.07	138.15	311.71	154.55	141.10	13.45	11.492	
2,100.00	2,065.21	2,048.17	1,987.28	8.37	9.46	20.73	157.72	351.50	164.37	150.17	14.21	11.571	
2,200.00	2,155.84	2,142.30	2,068.87	9.07	10.31	21.43	178.42	393.62	174.14	159.15	15.00	11.612	
2,300.00	2,244.94	2,236.15	2,148.65	9.82	11.21	22.16	200.23	437.98	183.86	168.03	15.83	11.614	
2,400.00	2,332.39	2,329.75	2,226.54	10.64	12.17	22.92	223.12	484.53	193.52	176.80	16.72	11.577	
2,500.00	2,418.11	2,436.29	2,302.16	11.53	13.34	23.70	246.93	532.97	203.12	185.40	17.72	11.461	
2,558.91	2,467.74	2,481.29	2,349.24	12.08	13.85	24.25	262.35	564.33	208.34	189.98	18.36	11.348	
2,600.00	2,502.13	2,522.22	2,382.10	12.47	14.32	24.69	273.11	586.23	211.62	192.74	18.88	11.211	
2,700.00	2,585.83	2,621.83	2,462.08	13.45	15.47	25.71	299.31	639.51	219.64	199.46	20.17	10.888	
2,800.00	2,669.53	2,721.43	2,542.06	14.44	16.64	26.65	325.50	692.79	227.72	206.20	21.52	10.583	
2,900.00	2,753.22	2,821.04	2,622.03	15.46	17.82	27.53	351.70	746.07	235.86	212.95	22.91	10.297	
3,000.00	2,836.92	2,920.64	2,702.01	16.48	19.01	28.36	377.89	799.35	244.05	219.72	24.33	10.029	
3,100.00	2,920.62	3,020.24	2,781.98	17.52	20.20	29.13	404.09	852.64	252.29	226.49	25.80	9.780	
3,200.00	3,004.32	3,119.85	2,861.96	18.56	21.40	29.85	430.28	905.92	260.57	233.28	27.29	9.547	
3,300.00	3,088.01	3,219.45	2,941.93	19.61	22.61	30.52	456.47	959.20	268.89	240.07	28.82	9.331	
3,400.00	3,171.71	3,319.06	3,021.91	20.67	23.82	31.16	482.67	1,012.48	277.24	246.87	30.37	9.129	
3,500.00	3,255.41	3,418.66	3,101.88	21.73	25.03	31.76	508.86	1,065.76	285.63	253.69	31.94	8.942	
3,600.00	3,339.10	3,518.27	3,181.86	22.80	26.25	32.32	535.06	1,119.04	294.05	260.51	33.54	8.767	
3,700.00	3,422.80	3,617.87	3,261.83	23.87	27.47	32.85	561.25	1,172.32	302.49	267.33	35.15	8.605	
3,800.00	3,506.50	3,717.48	3,341.81	24.94	28.69	33.36	587.45	1,225.60	310.95	274.17	36.79	8.453	
3,900.00	3,590.20	3,817.08	3,421.78	26.02	29.92	33.83	613.64	1,278.89	319.44	281.01	38.44	8.311	
4,000.00	3,673.89	3,916.69	3,501.76	27.10	31.15	34.28	639.84	1,332.17	327.95	287.86	40.10	8.179	
4,100.00	3,757.59	4,016.29	3,581.73	28.18	32.37	34.71	666.03	1,385.45	336.48	294.71	41.78	8.055	
4,200.00	3,841.29	4,115.90	3,661.71	29.26	33.60	35.12	692.23	1,438.73	345.03	301.57	43.46	7.938	
4,300.00	3,924.99	4,215.50	3,741.68	30.35	34.83	35.51	718.42	1,492.01	353.59	308.43	45.16	7.829	
4,400.00	4,008.68	4,315.11	3,821.66	31.44	36.07	35.88	744.62	1,545.29	362.17	315.30	46.87	7.727	
4,500.00	4,092.38	4,414.71	3,901.63	32.52	37.30	36.23	770.81	1,598.57	370.77	322.17	48.59	7.630	
4,600.00	4,176.08	4,514.31	3,981.61	33.62	38.54	36.57	797.00	1,651.86	379.37	329.05	50.32	7.539	
4,700.00	4,259.77	4,613.92	4,061.58	34.71	39.77	36.89	823.20	1,705.14	387.99	335.94	52.06	7.453	
4,800.00	4,343.47	4,713.52	4,141.56	35.80	41.01	37.20	849.39	1,758.42	396.62	342.82	53.80	7.372	
4,900.00	4,427.17	4,813.13	4,221.54	36.89	42.24	37.49	875.59	1,811.70	405.27	349.72	55.55	7.296	
5,000.00	4,510.87	4,912.73	4,301.51	37.99	43.48	37.78	901.78	1,864.98	413.92	356.61	57.31	7.223	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1I-22H-H168 - OWB - PROPOSAL 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	5,012.34	4,381.49	39.08	44.72	38.05	927.98	1,918.26	422.58	363.51	59.07	7.154	
5,200.00	4,678.26	5,111.94	4,461.46	40.18	45.96	38.31	954.17	1,971.54	431.25	370.41	60.84	7.089	
5,300.00	4,761.96	5,211.55	4,541.44	41.28	47.20	38.56	980.37	2,024.82	439.93	377.32	62.61	7.027	
5,400.00	4,845.66	5,311.15	4,621.41	42.37	48.44	38.80	1,006.56	2,078.11	448.62	384.23	64.39	6.968	
5,500.00	4,929.35	5,410.76	4,701.39	43.47	49.68	39.03	1,032.76	2,131.39	457.31	391.14	66.17	6.911	
5,600.00	5,013.05	5,510.36	4,781.36	44.57	50.92	39.25	1,058.95	2,184.67	466.01	398.06	67.96	6.858	
5,700.00	5,096.75	5,609.97	4,861.34	45.67	52.16	39.47	1,085.14	2,237.95	474.72	404.98	69.75	6.806	
5,800.00	5,180.45	5,709.57	4,941.31	46.77	53.40	39.67	1,111.34	2,291.23	483.44	411.90	71.54	6.758	
5,900.00	5,264.14	5,809.18	5,021.29	47.87	54.64	39.87	1,137.53	2,344.51	492.16	418.82	73.34	6.711	
6,000.00	5,347.84	5,908.78	5,101.26	48.97	55.88	40.06	1,163.73	2,397.79	500.88	425.75	75.14	6.666	
6,100.00	5,431.54	6,008.39	5,181.24	50.07	57.13	40.25	1,189.92	2,451.07	509.61	432.67	76.94	6.623	
6,200.00	5,515.23	6,107.99	5,261.21	51.17	58.37	40.43	1,216.12	2,504.36	518.35	439.60	78.75	6.582	
6,300.00	5,598.93	6,207.59	5,341.19	52.27	59.61	40.60	1,242.31	2,557.64	527.09	446.54	80.56	6.543	
6,400.00	5,682.63	6,307.20	5,421.16	53.38	60.85	40.77	1,268.51	2,610.92	535.84	453.47	82.37	6.505	
6,500.00	5,766.33	6,406.80	5,501.14	54.48	62.10	40.93	1,294.70	2,664.20	544.59	460.41	84.18	6.469	
6,600.00	5,850.02	6,506.41	5,581.11	55.58	63.34	41.09	1,320.90	2,717.48	553.35	467.35	86.00	6.434	
6,700.00	5,933.72	6,606.01	5,661.09	56.68	64.58	41.24	1,347.09	2,770.76	562.11	474.29	87.82	6.401	
6,800.00	6,017.42	6,705.62	5,741.07	57.79	65.83	41.39	1,373.29	2,824.04	570.87	481.23	89.64	6.368	
6,900.00	6,101.12	6,805.22	5,821.04	58.89	67.07	41.53	1,399.48	2,877.33	579.63	488.17	91.46	6.337	
7,000.00	6,184.81	6,904.83	5,901.02	59.99	68.32	41.67	1,425.67	2,930.61	588.40	495.12	93.29	6.307	
7,100.00	6,268.51	7,004.43	5,980.99	61.10	69.56	41.81	1,451.87	2,983.89	597.18	502.07	95.11	6.279	
7,200.00	6,352.21	7,104.04	6,060.97	62.20	70.80	41.94	1,478.06	3,037.17	605.95	509.01	96.94	6.251	
7,300.00	6,435.90	7,203.64	6,140.94	63.31	72.05	42.06	1,504.26	3,090.45	614.73	515.96	98.77	6.224	
7,400.00	6,519.60	7,303.25	6,220.92	64.41	73.29	42.19	1,530.45	3,143.73	623.52	522.92	100.60	6.198	
7,500.00	6,603.30	7,402.85	6,300.89	65.51	74.54	42.31	1,556.65	3,197.01	632.30	529.87	102.43	6.173	
7,600.00	6,687.00	7,502.46	6,380.87	66.62	75.78	42.43	1,582.84	3,250.29	641.09	536.82	104.27	6.148	
7,700.00	6,770.69	7,602.06	6,460.84	67.72	77.03	42.54	1,609.04	3,303.58	649.88	543.78	106.10	6.125	
7,800.00	6,854.39	7,701.67	6,540.82	68.83	78.27	42.65	1,635.23	3,356.86	658.67	550.73	107.94	6.102	
7,900.00	6,938.09	7,801.27	6,620.79	69.93	79.52	42.76	1,661.43	3,410.14	667.47	557.69	109.78	6.080	
7,933.18	6,965.86	7,834.32	6,647.33	70.30	79.93	42.79	1,670.12	3,427.82	670.39	560.00	110.39	6.073	
7,950.00	6,980.00	7,851.08	6,660.79	70.49	80.14	40.61	1,674.52	3,436.78	671.81	561.14	110.67	6.071	
8,000.00	7,022.68	7,900.85	6,700.75	71.01	80.76	33.13	1,687.61	3,463.41	675.31	564.16	111.14	6.076	
8,050.00	7,066.06	7,950.27	6,740.43	71.51	81.38	24.33	1,700.61	3,489.84	677.76	566.67	111.08	6.101	
8,100.00	7,109.82	8,001.05	6,779.52	71.97	82.02	14.56	1,713.41	3,515.88	679.28	568.79	110.49	6.148	
8,150.00	7,153.63	8,046.53	6,817.72	72.38	82.59	4.35	1,725.92	3,541.33	680.05	570.75	109.30	6.222	
8,200.00	7,197.14	8,107.37	6,854.74	72.74	83.35	-5.75	1,738.05	3,566.00	680.35	572.67	107.69	6.318	
8,250.00	7,240.04	8,136.92	6,890.30	73.05	83.72	-15.28	1,749.70	3,589.69	680.51	575.22	105.29	6.463	
8,300.00	7,281.99	8,179.05	6,924.12	73.31	84.24	-23.97	1,760.78	3,612.22	680.91	578.39	102.52	6.642	
8,350.00	7,322.67	8,218.71	6,955.96	73.52	84.74	-31.69	1,771.21	3,633.44	681.98	582.66	99.32	6.867	
8,400.00	7,361.77	8,255.58	6,985.57	73.68	85.20	-38.42	1,780.90	3,653.16	684.15	588.35	95.81	7.141	
8,450.00	7,399.01	8,289.40	7,012.72	73.78	85.62	-44.15	1,789.80	3,671.25	687.89	595.73	92.16	7.464	
8,500.00	7,434.08	8,319.90	7,037.21	73.85	86.00	-48.91	1,797.82	3,687.57	693.58	605.01	88.57	7.830	
8,550.00	7,466.74	8,346.85	7,058.85	73.87	86.34	-52.72	1,804.90	3,701.98	701.60	616.29	85.31	8.224	
8,600.00	7,496.72	8,370.04	7,077.47	73.85	86.63	-55.58	1,811.00	3,714.39	712.21	629.59	82.63	8.620	
8,650.00	7,523.80	8,389.31	7,092.94	73.79	86.87	-57.50	1,816.07	3,724.70	725.60	644.86	80.74	8.987	
8,700.00	7,547.77	8,404.50	7,105.14	73.70	87.06	-58.47	1,820.07	3,732.82	741.82	662.02	79.80	9.296	
8,750.00	7,568.45	8,415.49	7,113.97	73.58	87.20	-58.50	1,822.96	3,738.70	760.82	680.97	79.85	9.528	
8,800.00	7,585.69	8,422.21	7,119.36	73.43	87.28	-57.59	1,824.72	3,742.30	782.44	701.63	80.80	9.683	
8,850.00	7,599.35	8,424.60	7,121.28	73.26	87.31	-55.77	1,825.35	3,743.58	806.41	723.90	82.51	9.773	
8,900.00	7,609.33	8,422.65	7,119.71	73.07	87.29	-53.08	1,824.84	3,742.53	832.40	747.62	84.78	9.819	
8,950.00	7,615.55	8,416.36	7,114.67	72.87	87.21	-49.62	1,823.19	3,739.17	860.01	772.62	87.39	9.841	
9,000.00	7,617.97	8,405.80	7,106.18	72.65	87.08	-45.50	1,820.41	3,733.52	888.79	798.62	90.16	9.857	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1I-22H-H168 - OWB - PROPOSAL 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,006.60	7,618.00	8,404.08	7,104.81	72.62	87.06	-44.92	1,819.96	3,732.60	892.65	802.12	90.53	9.860	
9,100.00	7,618.00	8,379.35	7,084.95	72.22	86.75	-43.08	1,813.45	3,719.37	950.08	854.26	95.83	9.914	
9,200.00	7,618.00	8,352.87	7,063.69	71.80	86.42	-41.14	1,806.49	3,705.21	1,016.84	915.54	101.30	10.038	
9,300.00	7,618.00	9,976.53	7,870.00	71.41	92.53	-103.94	1,001.71	4,238.78	1,050.56	972.72	77.85	13.496	
9,400.00	7,618.00	10,076.53	7,870.00	71.04	92.22	-103.94	901.71	4,238.45	1,050.56	973.63	76.94	13.655	
9,500.00	7,618.00	10,176.53	7,870.00	70.68	91.93	-103.94	801.71	4,238.11	1,050.57	974.39	76.18	13.791	
9,600.00	7,618.00	10,276.53	7,870.00	70.35	91.66	-103.94	701.71	4,237.77	1,050.57	975.00	75.57	13.902	
9,700.00	7,618.00	10,376.53	7,870.00	70.04	91.40	-103.94	601.71	4,237.44	1,050.57	975.46	75.11	13.987	
9,800.00	7,618.00	10,476.53	7,870.00	69.75	91.16	-103.94	501.71	4,237.10	1,050.57	975.76	74.81	14.043	
9,900.00	7,618.00	10,576.53	7,870.00	69.47	90.93	-103.93	401.71	4,236.76	1,050.57	975.90	74.67	14.069	
10,000.00	7,618.00	10,676.53	7,870.00	69.22	90.72	-103.93	301.71	4,236.42	1,050.58	975.88	74.69	14.066	
10,100.00	7,618.00	10,776.53	7,870.00	68.99	90.52	-103.93	201.71	4,236.09	1,050.58	975.71	74.87	14.032	
10,200.00	7,618.00	10,876.53	7,870.00	68.78	90.35	-103.93	101.71	4,235.75	1,050.58	975.37	75.21	13.970	
10,300.00	7,618.00	10,976.53	7,870.00	68.59	90.18	-103.93	1.71	4,235.41	1,050.58	974.88	75.70	13.879	
10,400.00	7,618.00	11,076.53	7,870.00	68.42	90.03	-103.93	-98.28	4,235.07	1,050.58	974.24	76.34	13.761	
10,500.00	7,618.00	11,176.53	7,870.00	68.28	89.90	-103.93	-198.28	4,234.74	1,050.59	973.45	77.14	13.620	
10,600.00	7,618.00	11,276.53	7,870.00	68.16	89.79	-103.93	-298.28	4,234.40	1,050.59	972.51	78.08	13.456	
10,700.00	7,618.00	11,376.53	7,870.00	68.06	89.70	-103.93	-398.28	4,234.06	1,050.59	971.44	79.15	13.273	
10,800.00	7,618.00	11,476.53	7,870.00	67.99	89.62	-103.93	-498.28	4,233.73	1,050.59	970.23	80.37	13.073	
10,900.00	7,618.00	11,576.53	7,870.00	67.95	89.56	-103.93	-598.28	4,233.39	1,050.59	968.89	81.71	12.858	
11,000.00	7,618.00	11,676.53	7,870.00	67.95	89.52	-103.93	-698.28	4,233.05	1,050.59	967.43	83.17	12.632	
11,100.00	7,618.00	11,776.53	7,870.00	67.97	89.50	-103.93	-798.28	4,232.71	1,050.60	965.85	84.74	12.397	
11,200.00	7,618.00	11,876.53	7,870.00	68.04	89.50	-103.93	-898.28	4,232.38	1,050.60	964.17	86.43	12.155	
11,300.00	7,618.00	11,976.53	7,870.00	68.15	89.53	-103.93	-998.28	4,232.04	1,050.60	962.38	88.22	11.909	
11,400.00	7,618.00	12,076.53	7,870.00	68.30	89.57	-103.93	-1,098.28	4,231.70	1,050.60	960.50	90.10	11.660	
11,500.00	7,618.00	12,176.53	7,870.00	68.50	89.64	-103.93	-1,198.28	4,231.37	1,050.60	958.53	92.08	11.410	
11,600.00	7,618.00	12,276.53	7,870.00	68.75	89.74	-103.93	-1,298.28	4,231.03	1,050.61	956.47	94.14	11.160	
11,700.00	7,618.00	12,376.53	7,870.00	69.06	89.86	-103.93	-1,398.28	4,230.69	1,050.61	954.33	96.28	10.912	
11,800.00	7,618.00	12,476.53	7,870.00	69.44	90.01	-103.93	-1,498.28	4,230.35	1,050.61	952.12	98.49	10.667	
11,900.00	7,618.00	12,576.53	7,870.00	69.88	90.19	-103.93	-1,598.28	4,230.02	1,050.61	949.83	100.78	10.425	
12,000.00	7,618.00	12,676.53	7,870.00	70.39	90.40	-103.93	-1,698.28	4,229.68	1,050.61	947.49	103.13	10.188	
12,100.00	7,618.00	12,776.53	7,870.00	70.97	90.64	-103.93	-1,798.28	4,229.34	1,050.62	945.08	105.54	9.955	
12,200.00	7,618.00	12,876.53	7,870.00	71.63	90.92	-103.93	-1,898.27	4,229.01	1,050.62	942.62	108.00	9.728	
12,300.00	7,618.00	12,976.53	7,870.00	72.35	91.24	-103.93	-1,998.27	4,228.67	1,050.62	940.10	110.52	9.506	
12,400.00	7,618.00	13,076.53	7,870.00	73.15	91.59	-103.93	-2,098.27	4,228.33	1,050.62	937.53	113.09	9.290	
12,500.00	7,618.00	13,176.53	7,870.00	74.01	91.98	-103.93	-2,198.27	4,227.99	1,050.62	934.92	115.70	9.080	
12,600.00	7,618.00	13,276.53	7,870.00	74.93	92.41	-103.93	-2,298.27	4,227.66	1,050.62	932.27	118.36	8.877	
12,700.00	7,618.00	13,376.53	7,870.00	75.91	92.88	-103.93	-2,398.27	4,227.32	1,050.63	929.57	121.05	8.679	
12,800.00	7,618.00	13,476.53	7,870.00	76.95	93.40	-103.93	-2,498.27	4,226.98	1,050.63	926.84	123.79	8.487	
12,900.00	7,618.00	13,576.53	7,870.00	78.04	93.96	-103.93	-2,598.27	4,226.64	1,050.63	924.07	126.56	8.302	
13,000.00	7,618.00	13,676.53	7,870.00	79.16	94.57	-103.93	-2,698.27	4,226.31	1,050.63	921.27	129.36	8.122	
13,100.00	7,618.00	13,776.53	7,870.00	80.33	95.22	-103.93	-2,798.27	4,225.97	1,050.63	918.44	132.19	7.948	
13,200.00	7,618.00	13,876.53	7,870.00	81.54	95.92	-103.93	-2,898.27	4,225.63	1,050.64	915.58	135.05	7.779	
13,300.00	7,618.00	13,976.53	7,870.00	82.78	96.66	-103.93	-2,998.27	4,225.30	1,050.64	912.70	137.94	7.617	
13,400.00	7,618.00	14,076.53	7,870.00	84.05	97.45	-103.93	-3,098.27	4,224.96	1,050.64	909.79	140.85	7.459	
13,500.00	7,618.00	14,176.53	7,870.00	85.35	98.28	-103.93	-3,198.27	4,224.62	1,050.64	906.85	143.79	7.307	
13,600.00	7,618.00	14,276.53	7,870.00	86.67	99.16	-103.93	-3,298.27	4,224.28	1,050.64	903.89	146.75	7.159	
13,700.00	7,618.00	14,376.53	7,870.00	88.02	100.07	-103.93	-3,398.27	4,223.95	1,050.65	900.91	149.73	7.017	
13,800.00	7,618.00	14,476.53	7,870.00	89.38	101.03	-103.93	-3,498.27	4,223.61	1,050.65	897.92	152.73	6.879	
13,900.00	7,618.00	14,576.53	7,870.00	90.77	102.03	-103.93	-3,598.26	4,223.27	1,050.65	894.90	155.75	6.746	
14,000.00	7,618.00	14,676.53	7,870.00	92.17	103.06	-103.93	-3,698.26	4,222.94	1,050.65	891.86	158.79	6.617	
14,100.00	7,618.00	14,776.53	7,870.00	93.59	104.13	-103.93	-3,798.26	4,222.60	1,050.65	888.81	161.84	6.492	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1I-22H-H168 - OWB - PROPOSAL 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,618.00	14,876.53	7,870.00	95.02	105.23	-103.93	-3,898.26	4,222.26	1,050.65	885.75	164.91	6.371	
14,300.00	7,618.00	14,976.53	7,870.00	96.47	106.36	-103.93	-3,998.26	4,221.92	1,050.66	882.66	167.99	6.254	
14,400.00	7,618.00	15,076.53	7,870.00	97.93	107.53	-103.93	-4,098.26	4,221.59	1,050.66	879.57	171.09	6.141	
14,500.00	7,618.00	15,176.53	7,870.00	99.41	108.72	-103.93	-4,198.26	4,221.25	1,050.66	876.46	174.20	6.031	
14,600.00	7,618.00	15,276.53	7,870.00	100.89	109.93	-103.93	-4,298.26	4,220.91	1,050.66	873.34	177.33	5.925	
14,700.00	7,618.00	15,376.53	7,870.00	102.38	111.18	-103.93	-4,398.26	4,220.57	1,050.66	870.20	180.46	5.822	
14,800.00	7,618.00	15,476.53	7,870.00	103.89	112.44	-103.93	-4,498.26	4,220.24	1,050.67	867.06	183.61	5.722	
14,900.00	7,618.00	15,576.53	7,870.00	105.40	113.73	-103.93	-4,598.26	4,219.90	1,050.67	863.90	186.77	5.626	
15,000.00	7,618.00	15,676.53	7,870.00	106.92	115.03	-103.93	-4,698.26	4,219.56	1,050.67	860.74	189.93	5.532	
15,100.00	7,618.00	15,776.53	7,870.00	108.45	116.36	-103.93	-4,798.26	4,219.23	1,050.67	857.56	193.11	5.441	
15,200.00	7,618.00	15,876.53	7,870.00	109.99	117.71	-103.93	-4,898.26	4,218.89	1,050.67	854.38	196.30	5.352	
15,300.00	7,618.00	15,976.53	7,870.00	111.54	119.07	-103.93	-4,998.26	4,218.55	1,050.68	851.18	199.49	5.267	
15,400.00	7,618.00	16,076.53	7,870.00	113.09	120.44	-103.93	-5,098.26	4,218.21	1,050.68	847.98	202.70	5.184	
15,500.00	7,618.00	16,176.53	7,870.00	114.65	121.84	-103.93	-5,198.26	4,217.88	1,050.68	844.77	205.91	5.103	
15,600.00	7,618.00	16,276.53	7,870.00	116.21	123.24	-103.93	-5,298.26	4,217.54	1,050.68	841.55	209.13	5.024	
15,700.00	7,618.00	16,376.53	7,870.00	117.78	124.66	-103.93	-5,398.25	4,217.20	1,050.68	838.33	212.35	4.948	
15,800.00	7,618.00	16,476.53	7,870.00	119.36	126.10	-103.93	-5,498.25	4,216.87	1,050.68	835.10	215.59	4.874	
15,900.00	7,618.00	16,576.53	7,870.00	120.94	127.54	-103.93	-5,598.25	4,216.53	1,050.69	831.86	218.83	4.801	
16,000.00	7,618.00	16,676.53	7,870.00	122.53	128.99	-103.93	-5,698.25	4,216.19	1,050.69	828.61	222.07	4.731	
16,100.00	7,618.00	16,776.53	7,870.00	124.12	130.46	-103.93	-5,798.25	4,215.85	1,050.69	825.36	225.33	4.663	
16,200.00	7,618.00	16,876.53	7,870.00	125.72	131.94	-103.93	-5,898.25	4,215.52	1,050.69	822.11	228.59	4.596	
16,300.00	7,618.00	16,976.53	7,870.00	127.32	133.42	-103.93	-5,998.25	4,215.18	1,050.69	818.84	231.85	4.532	
16,400.00	7,618.00	17,076.53	7,870.00	128.93	134.91	-103.93	-6,098.25	4,214.84	1,050.70	815.58	235.12	4.469	
16,500.00	7,618.00	17,176.53	7,870.00	130.54	136.42	-103.93	-6,198.25	4,214.51	1,050.70	812.30	238.39	4.407	
16,600.00	7,618.00	17,276.53	7,870.00	132.15	137.93	-103.93	-6,298.25	4,214.17	1,050.70	809.03	241.67	4.348	
16,700.00	7,618.00	17,376.53	7,870.00	133.77	139.45	-103.93	-6,398.25	4,213.83	1,050.70	805.74	244.96	4.289	
16,800.00	7,618.00	17,476.53	7,870.00	135.39	140.97	-103.93	-6,498.25	4,213.49	1,050.70	802.46	248.25	4.233	
16,900.00	7,618.00	17,576.53	7,870.00	137.01	142.50	-103.93	-6,598.25	4,213.16	1,050.71	799.17	251.54	4.177	
17,000.00	7,618.00	17,676.53	7,870.00	138.64	144.04	-103.93	-6,698.25	4,212.82	1,050.71	795.87	254.84	4.123	
17,100.00	7,618.00	17,776.53	7,870.00	140.27	145.59	-103.93	-6,798.25	4,212.48	1,050.71	792.57	258.14	4.070	
17,200.00	7,618.00	17,876.53	7,870.00	141.91	147.14	-103.93	-6,898.25	4,212.14	1,050.71	789.27	261.44	4.019	
17,300.00	7,618.00	17,976.53	7,870.00	143.55	148.70	-103.93	-6,998.25	4,211.81	1,050.71	785.96	264.75	3.969	
17,400.00	7,618.00	18,076.53	7,870.00	145.19	150.26	-103.93	-7,098.25	4,211.47	1,050.71	782.65	268.06	3.920	
17,500.00	7,618.00	18,176.53	7,870.00	146.83	151.83	-103.93	-7,198.24	4,211.13	1,050.72	779.34	271.38	3.872	
17,600.00	7,618.00	18,276.53	7,870.00	148.48	153.40	-103.93	-7,298.24	4,210.80	1,050.72	776.02	274.70	3.825	
17,700.00	7,618.00	18,376.53	7,870.00	150.13	154.98	-103.93	-7,398.24	4,210.46	1,050.72	772.70	278.02	3.779	
17,800.00	7,618.00	18,476.53	7,870.00	151.78	156.56	-103.93	-7,498.24	4,210.12	1,050.72	769.38	281.35	3.735	
17,900.00	7,618.00	18,576.53	7,870.00	153.43	158.15	-103.93	-7,598.24	4,209.78	1,050.72	766.05	284.67	3.691	
18,000.00	7,618.00	18,676.53	7,870.00	155.09	159.74	-103.93	-7,698.24	4,209.45	1,050.73	762.72	288.01	3.648	
18,100.00	7,618.00	18,776.53	7,870.00	156.75	161.33	-103.93	-7,798.24	4,209.11	1,050.73	759.39	291.34	3.607	
18,200.00	7,618.00	18,876.53	7,870.00	158.41	162.93	-103.93	-7,898.24	4,208.77	1,050.73	756.05	294.68	3.566	
18,300.00	7,618.00	18,976.53	7,870.00	160.07	164.54	-103.93	-7,998.24	4,208.44	1,050.73	752.72	298.02	3.526	
18,400.00	7,618.00	19,076.53	7,870.00	161.74	166.14	-103.93	-8,098.24	4,208.10	1,050.73	749.38	301.36	3.487	
18,500.00	7,618.00	19,176.53	7,870.00	163.41	167.75	-103.93	-8,198.24	4,207.76	1,050.74	746.03	304.70	3.448	
18,600.00	7,618.00	19,276.53	7,870.00	165.08	169.37	-103.93	-8,298.24	4,207.42	1,050.74	742.69	308.05	3.411	
18,700.00	7,618.00	19,376.53	7,870.00	166.75	170.98	-103.93	-8,398.24	4,207.09	1,050.74	739.34	311.40	3.374	
18,711.30	7,618.00	19,387.83	7,870.00	166.94	171.17	-103.93	-8,409.54	4,207.05	1,050.74	738.96	311.78	3.370	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	2.00	-2.00	0.00	0.00	90.52	-0.36	40.04	40.04				
100.00	100.00	102.00	98.00	0.13	0.14	90.52	-0.36	40.04	40.04	39.77	0.28	145.068	
200.00	200.00	202.00	198.00	0.49	0.50	90.52	-0.36	40.04	40.04	39.05	0.99	40.326	
300.00	300.00	302.00	298.00	0.85	0.86	90.52	-0.36	40.04	40.04	38.33	1.71	23.418	
400.00	400.00	402.00	398.00	1.21	1.22	90.52	-0.36	40.04	40.04	37.62	2.43	16.500	
500.00	500.00	498.00	498.00	1.57	1.56	90.52	-0.36	40.04	40.04	36.91	3.13	12.795	CC, ES
600.00	600.00	596.74	596.72	1.93	1.91	89.56	0.32	41.52	41.55	37.71	3.84	10.826	
700.00	700.00	695.22	695.07	2.29	2.26	87.01	2.41	46.08	46.24	41.70	4.54	10.185	
800.00	800.00	793.25	792.74	2.64	2.62	83.74	5.89	53.67	54.25	49.01	5.24	10.354	
900.00	900.00	890.59	889.38	3.00	2.98	80.52	10.72	64.20	65.66	59.73	5.93	11.069	
1,000.00	999.98	987.30	984.95	3.36	3.36	20.88	16.88	77.62	78.88	72.27	6.61	11.934	
1,100.00	1,099.84	1,083.57	1,079.54	3.71	3.77	19.44	24.34	93.88	92.21	84.94	7.28	12.673	
1,200.00	1,199.45	1,179.42	1,173.06	4.07	4.20	18.61	33.08	112.92	105.57	97.63	7.94	13.295	
1,300.00	1,298.70	1,274.84	1,265.43	4.44	4.66	18.19	43.07	134.70	118.91	110.32	8.60	13.833	
1,400.00	1,397.47	1,369.85	1,356.55	4.82	5.15	18.05	54.29	159.15	132.21	122.95	9.26	14.276	
1,500.00	1,495.62	1,464.46	1,446.34	5.22	5.69	18.12	66.71	186.21	145.45	135.53	9.92	14.656	
1,600.00	1,593.06	1,558.67	1,534.74	5.65	6.27	18.33	80.29	215.81	158.62	148.03	10.59	14.975	
1,700.00	1,689.64	1,652.49	1,621.65	6.11	6.90	18.66	95.02	247.91	171.71	160.44	11.27	15.237	
1,800.00	1,785.27	1,745.92	1,707.02	6.61	7.57	19.08	110.86	282.43	184.71	172.76	11.96	15.448	
1,900.00	1,879.82	1,838.99	1,790.76	7.15	8.30	19.56	127.78	319.31	197.62	184.96	12.66	15.607	
2,000.00	1,973.17	1,931.69	1,872.83	7.73	9.07	20.10	145.76	358.48	210.44	197.05	13.39	15.718	
2,100.00	2,065.21	2,024.03	1,953.16	8.37	9.91	20.69	164.75	399.88	223.16	209.02	14.14	15.780	
2,200.00	2,155.84	2,116.03	2,031.68	9.07	10.79	21.31	184.75	443.44	235.78	220.85	14.93	15.793	
2,300.00	2,244.94	2,207.70	2,108.34	9.82	11.73	21.96	205.70	489.10	248.29	232.54	15.76	15.759	
2,400.00	2,332.39	2,299.04	2,183.10	10.64	12.73	22.64	227.58	536.80	260.71	244.08	16.63	15.676	
2,500.00	2,418.11	2,390.06	2,255.89	11.53	13.79	23.34	250.37	586.46	273.02	255.45	17.56	15.544	
2,558.91	2,467.74	2,444.64	2,298.72	12.08	14.45	23.77	264.49	617.22	280.19	262.02	18.17	15.419	
2,600.00	2,502.13	2,485.41	2,330.57	12.47	14.95	24.14	275.10	640.35	285.04	266.36	18.68	15.257	
2,700.00	2,585.83	2,584.61	2,408.06	13.45	16.18	24.99	300.93	696.64	296.90	276.94	19.96	14.872	
2,800.00	2,669.53	2,683.81	2,485.55	14.44	17.42	25.78	326.76	752.93	308.82	287.54	21.29	14.508	
2,900.00	2,753.22	2,783.02	2,563.05	15.46	18.68	26.51	352.59	809.22	320.79	298.15	22.65	14.165	
3,000.00	2,836.92	2,882.22	2,640.54	16.48	19.94	27.18	378.42	865.51	332.81	308.77	24.04	13.843	
3,100.00	2,920.62	2,981.42	2,718.03	17.52	21.21	27.81	404.25	921.80	344.87	319.41	25.47	13.542	
3,200.00	3,004.32	3,080.62	2,795.53	18.56	22.49	28.39	430.08	978.09	356.97	330.05	26.92	13.260	
3,300.00	3,088.01	3,179.82	2,873.02	19.61	23.77	28.94	455.91	1,034.38	369.11	340.71	28.40	12.998	
3,400.00	3,171.71	3,279.02	2,950.51	20.67	25.06	29.45	481.74	1,090.67	381.27	351.38	29.90	12.753	
3,500.00	3,255.41	3,378.22	3,028.01	21.73	26.35	29.93	507.57	1,146.96	393.47	362.05	31.42	12.525	
3,600.00	3,339.10	3,477.42	3,105.50	22.80	27.64	30.39	533.40	1,203.25	405.69	372.73	32.95	12.311	
3,700.00	3,422.80	3,576.63	3,182.99	23.87	28.94	30.81	559.23	1,259.54	417.93	383.42	34.50	12.112	
3,800.00	3,506.50	3,675.83	3,260.49	24.94	30.24	31.21	585.06	1,315.83	430.19	394.12	36.07	11.926	
3,900.00	3,590.20	3,775.03	3,337.98	26.02	31.54	31.59	610.89	1,372.12	442.48	404.82	37.65	11.752	
4,000.00	3,673.89	3,874.23	3,415.47	27.10	32.84	31.95	636.72	1,428.41	454.78	415.53	39.25	11.588	
4,100.00	3,757.59	3,973.43	3,492.97	28.18	34.14	32.29	662.55	1,484.70	467.10	426.25	40.85	11.435	
4,200.00	3,841.29	4,072.63	3,570.46	29.26	35.45	32.61	688.38	1,540.99	479.43	436.97	42.46	11.291	
4,300.00	3,924.99	4,171.83	3,647.95	30.35	36.75	32.92	714.21	1,597.28	491.78	447.69	44.09	11.155	
4,400.00	4,008.68	4,271.04	3,725.44	31.44	38.06	33.21	740.04	1,653.57	504.14	458.42	45.72	11.027	
4,500.00	4,092.38	4,370.24	3,802.94	32.52	39.37	33.49	765.87	1,709.86	516.51	469.16	47.36	10.907	
4,600.00	4,176.08	4,469.44	3,880.43	33.62	40.68	33.75	791.70	1,766.15	528.90	479.89	49.00	10.793	
4,700.00	4,259.77	4,568.64	3,957.92	34.71	41.99	34.00	817.53	1,822.44	541.29	490.63	50.66	10.686	
4,800.00	4,343.47	4,667.84	4,035.42	35.80	43.30	34.24	843.36	1,878.73	553.70	501.38	52.32	10.584	
4,900.00	4,427.17	4,767.04	4,112.91	36.89	44.61	34.47	869.19	1,935.02	566.11	512.13	53.98	10.487	
5,000.00	4,510.87	4,866.24	4,190.40	37.99	45.92	34.69	895.01	1,991.31	578.53	522.88	55.65	10.396	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	4,965.44	4,267.90	39.08	47.23	34.91	920.84	2,047.60	590.96	533.64	57.33	10.309	
5,200.00	4,678.26	5,064.65	4,345.39	40.18	48.55	35.11	946.67	2,103.88	603.40	544.40	59.01	10.226	
5,300.00	4,761.96	5,163.85	4,422.88	41.28	49.86	35.30	972.50	2,160.17	615.85	555.16	60.69	10.147	
5,400.00	4,845.66	5,263.05	4,500.38	42.37	51.18	35.49	998.33	2,216.46	628.30	565.92	62.38	10.072	
5,500.00	4,929.35	5,362.25	4,577.87	43.47	52.49	35.67	1,024.16	2,272.75	640.76	576.69	64.07	10.001	
5,600.00	5,013.05	5,461.45	4,655.36	44.57	53.81	35.84	1,049.99	2,329.04	653.22	587.46	65.77	9.932	
5,700.00	5,096.75	5,560.65	4,732.85	45.67	55.12	36.01	1,075.82	2,385.33	665.69	598.23	67.47	9.867	
5,800.00	5,180.45	5,659.85	4,810.35	46.77	56.44	36.17	1,101.65	2,441.62	678.17	609.00	69.17	9.805	
5,900.00	5,264.14	5,759.06	4,887.84	47.87	57.75	36.32	1,127.48	2,497.91	690.65	619.78	70.87	9.745	
6,000.00	5,347.84	5,858.26	4,965.33	48.97	59.07	36.47	1,153.31	2,554.20	703.13	630.55	72.58	9.688	
6,100.00	5,431.54	5,957.46	5,042.83	50.07	60.39	36.61	1,179.14	2,610.49	715.62	641.33	74.29	9.633	
6,200.00	5,515.23	6,056.66	5,120.32	51.17	61.70	36.75	1,204.97	2,666.78	728.12	652.11	76.00	9.580	
6,300.00	5,598.93	6,155.86	5,197.81	52.27	63.02	36.88	1,230.80	2,723.07	740.62	662.90	77.72	9.529	
6,400.00	5,682.63	6,255.06	5,275.31	53.38	64.34	37.01	1,256.63	2,779.36	753.12	673.68	79.44	9.481	
6,500.00	5,766.33	6,354.26	5,352.80	54.48	65.65	37.14	1,282.46	2,835.65	765.62	684.47	81.16	9.434	
6,600.00	5,850.02	6,453.46	5,430.29	55.58	66.97	37.26	1,308.29	2,891.94	778.13	695.26	82.88	9.389	
6,700.00	5,933.72	6,552.67	5,507.79	56.68	68.29	37.38	1,334.12	2,948.23	790.64	706.04	84.60	9.346	
6,800.00	6,017.42	6,651.87	5,585.28	57.79	69.61	37.49	1,359.95	3,004.52	803.16	716.84	86.32	9.304	
6,900.00	6,101.12	6,751.07	5,662.77	58.89	70.93	37.60	1,385.78	3,060.81	815.68	727.63	88.05	9.264	
7,000.00	6,184.81	6,850.27	5,740.26	59.99	72.24	37.71	1,411.61	3,117.10	828.20	738.42	89.78	9.225	
7,100.00	6,268.51	6,949.47	5,817.76	61.10	73.56	37.81	1,437.44	3,173.39	840.72	749.22	91.51	9.187	
7,200.00	6,352.21	7,048.67	5,895.25	62.20	74.88	37.91	1,463.27	3,229.68	853.25	760.01	93.24	9.151	
7,300.00	6,435.90	7,147.87	5,972.74	63.31	76.20	38.01	1,489.10	3,285.97	865.78	770.81	94.97	9.116	
7,400.00	6,519.60	7,247.08	6,050.24	64.41	77.52	38.10	1,514.93	3,342.26	878.31	781.61	96.71	9.082	
7,500.00	6,603.30	7,346.28	6,127.73	65.51	78.84	38.20	1,540.76	3,398.55	890.85	792.40	98.44	9.050	
7,600.00	6,687.00	7,445.48	6,205.22	66.62	80.16	38.29	1,566.59	3,454.84	903.38	803.20	100.18	9.018	
7,700.00	6,770.69	7,544.68	6,282.72	67.72	81.48	38.37	1,592.42	3,511.13	915.92	814.01	101.91	8.987	
7,800.00	6,854.39	7,643.88	6,360.21	68.83	82.80	38.46	1,618.25	3,567.42	928.46	824.81	103.65	8.957	
7,900.00	6,938.09	7,743.08	6,437.70	69.93	84.12	38.54	1,644.08	3,623.71	941.00	835.61	105.39	8.929	
7,933.18	6,965.86	7,776.00	6,463.42	70.30	84.55	38.57	1,652.65	3,642.39	945.16	839.19	105.97	8.919	
7,950.00	6,980.00	7,807.31	6,476.45	70.49	84.97	36.45	1,657.00	3,651.86	947.23	840.87	106.36	8.906	
8,000.00	7,022.68	7,842.27	6,515.18	71.01	85.44	29.27	1,669.90	3,679.99	952.86	846.09	106.76	8.925	
8,050.00	7,066.06	7,908.50	6,553.64	71.51	86.32	20.87	1,682.72	3,707.93	957.72	850.71	107.01	8.950	
8,100.00	7,109.82	7,940.00	6,591.53	71.97	86.74	11.63	1,695.35	3,735.45	961.87	855.32	106.55	9.027	
8,150.00	7,153.63	7,987.41	6,628.56	72.38	87.37	2.04	1,707.70	3,762.35	965.42	859.61	105.81	9.124	
8,200.00	7,197.14	8,033.36	6,664.46	72.74	87.98	-7.34	1,719.66	3,788.42	968.54	863.88	104.66	9.254	
8,250.00	7,240.04	8,077.50	6,698.94	73.05	88.57	-16.09	1,731.15	3,813.47	971.45	868.33	103.12	9.421	
8,300.00	7,281.99	8,119.50	6,731.75	73.31	89.12	-23.96	1,742.09	3,837.30	974.38	873.17	101.21	9.627	
8,350.00	7,322.67	8,159.04	6,762.64	73.52	89.65	-30.85	1,752.39	3,859.74	977.62	878.63	99.00	9.875	
8,400.00	7,361.77	8,204.18	6,791.37	73.68	90.25	-36.78	1,761.96	3,880.61	981.45	884.86	96.60	10.160	
8,450.00	7,399.01	8,229.56	6,817.72	73.78	90.59	-41.78	1,770.75	3,899.75	986.16	892.24	93.92	10.500	
8,500.00	7,434.08	8,259.99	6,841.50	73.85	90.99	-45.92	1,778.67	3,917.02	992.02	900.78	91.25	10.872	
8,550.00	7,466.74	8,286.90	6,862.52	73.87	91.35	-49.25	1,785.68	3,932.29	999.28	910.64	88.64	11.273	
8,600.00	7,496.72	8,310.07	6,880.61	73.85	91.66	-51.79	1,791.71	3,945.44	1,008.15	921.91	86.24	11.691	
8,650.00	7,523.80	8,329.32	6,895.66	73.79	91.92	-53.57	1,796.72	3,956.36	1,018.78	934.62	84.16	12.106	
8,700.00	7,547.77	8,344.52	6,907.53	73.70	92.12	-54.61	1,800.68	3,964.99	1,031.25	948.73	82.52	12.497	
8,750.00	7,568.45	8,355.55	6,916.14	73.58	92.27	-54.94	1,803.55	3,971.24	1,045.58	964.18	81.40	12.845	
8,800.00	7,585.69	8,362.31	6,921.43	73.43	92.36	-54.56	1,805.31	3,975.08	1,061.74	980.88	80.86	13.131	
8,850.00	7,599.35	8,364.77	6,923.35	73.26	92.39	-53.51	1,805.95	3,976.48	1,079.58	998.70	80.89	13.347	
8,900.00	7,609.33	8,362.90	6,921.89	73.07	92.36	-51.83	1,805.47	3,975.41	1,098.94	1,017.49	81.44	13.493	
8,950.00	7,615.55	8,356.71	6,917.05	72.87	92.28	-49.56	1,803.85	3,971.90	1,119.56	1,037.10	82.45	13.578	
9,000.00	7,617.97	8,346.26	6,908.89	72.65	92.14	-46.77	1,801.13	3,965.97	1,141.15	1,057.32	83.83	13.613	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,006.60	7,618.00	8,344.57	6,907.56	72.62	92.12	-46.37	1,800.69	3,965.01	1,144.06	1,060.03	84.03	13.615	
9,100.00	7,618.00	8,320.07	6,888.43	72.22	91.79	-45.07	1,794.31	3,951.11	1,187.96	1,100.60	87.36	13.598	
9,200.00	7,618.00	8,306.16	6,867.94	71.80	91.61	-43.68	1,787.48	3,936.23	1,240.52	1,148.88	91.64	13.536	
9,300.00	7,618.00	8,267.61	6,847.45	71.41	91.09	-42.31	1,780.65	3,921.34	1,298.14	1,202.12	96.02	13.520	
9,400.00	7,618.00	10,124.71	7,730.00	71.04	99.57	-94.86	900.61	4,558.44	1,344.48	1,260.06	84.42	15.926	
9,500.00	7,618.00	10,224.71	7,730.00	70.68	99.29	-94.86	800.61	4,558.10	1,344.48	1,260.71	83.77	16.049	
9,600.00	7,618.00	10,324.71	7,730.00	70.35	99.03	-94.86	700.61	4,557.76	1,344.48	1,261.21	83.27	16.146	
9,700.00	7,618.00	10,424.71	7,730.00	70.04	98.78	-94.86	600.61	4,557.43	1,344.48	1,261.57	82.92	16.215	
9,800.00	7,618.00	10,524.71	7,730.00	69.75	98.55	-94.86	500.61	4,557.09	1,344.49	1,261.78	82.71	16.256	
9,900.00	7,618.00	10,624.71	7,730.00	69.47	98.33	-94.86	400.62	4,556.75	1,344.49	1,261.83	82.65	16.267	
10,000.00	7,618.00	10,724.71	7,730.00	69.22	98.13	-94.86	300.62	4,556.41	1,344.49	1,261.74	82.75	16.248	
10,100.00	7,618.00	10,824.71	7,730.00	68.99	97.94	-94.86	200.62	4,556.07	1,344.49	1,261.50	82.99	16.200	
10,200.00	7,618.00	10,924.71	7,730.00	68.78	97.77	-94.86	100.62	4,555.73	1,344.49	1,261.10	83.38	16.124	
10,300.00	7,618.00	11,024.71	7,730.00	68.59	97.61	-94.86	0.62	4,555.39	1,344.49	1,260.57	83.92	16.021	
10,400.00	7,618.00	11,124.71	7,730.00	68.42	97.46	-94.86	-99.38	4,555.06	1,344.49	1,259.88	84.61	15.891	
10,500.00	7,618.00	11,224.71	7,730.00	68.28	97.33	-94.86	-199.38	4,554.72	1,344.49	1,259.06	85.43	15.738	
10,600.00	7,618.00	11,324.71	7,730.00	68.16	97.22	-94.86	-299.38	4,554.38	1,344.49	1,258.10	86.39	15.564	
10,700.00	7,618.00	11,424.71	7,730.00	68.06	97.12	-94.86	-399.38	4,554.04	1,344.49	1,257.01	87.48	15.369	
10,800.00	7,618.00	11,524.71	7,730.00	67.99	97.04	-94.86	-499.38	4,553.70	1,344.49	1,255.80	88.70	15.159	
10,900.00	7,618.00	11,624.71	7,730.00	67.95	96.97	-94.86	-599.38	4,553.36	1,344.49	1,254.46	90.03	14.933	
11,000.00	7,618.00	11,724.71	7,730.00	67.95	96.92	-94.86	-699.38	4,553.02	1,344.49	1,253.00	91.49	14.696	
11,100.00	7,618.00	11,824.71	7,730.00	67.97	96.89	-94.86	-799.38	4,552.69	1,344.49	1,251.44	93.05	14.449	
11,200.00	7,618.00	11,924.71	7,730.00	68.04	96.87	-94.86	-899.38	4,552.35	1,344.49	1,249.77	94.72	14.194	
11,300.00	7,618.00	12,024.71	7,730.00	68.15	96.88	-94.86	-999.38	4,552.01	1,344.49	1,248.00	96.50	13.933	
11,400.00	7,618.00	12,124.71	7,730.00	68.30	96.90	-94.86	-1,099.38	4,551.67	1,344.49	1,246.13	98.36	13.669	
11,500.00	7,618.00	12,224.71	7,730.00	68.50	96.95	-94.86	-1,199.38	4,551.33	1,344.50	1,244.18	100.31	13.403	
11,600.00	7,618.00	12,324.71	7,730.00	68.75	97.01	-94.86	-1,299.38	4,550.99	1,344.50	1,242.14	102.35	13.136	
11,700.00	7,618.00	12,424.71	7,730.00	69.06	97.10	-94.86	-1,399.37	4,550.65	1,344.50	1,240.03	104.47	12.870	
11,800.00	7,618.00	12,524.71	7,730.00	69.44	97.21	-94.86	-1,499.37	4,550.32	1,344.50	1,237.84	106.66	12.605	
11,900.00	7,618.00	12,624.71	7,730.00	69.88	97.35	-94.86	-1,599.37	4,549.98	1,344.50	1,235.58	108.92	12.344	
12,000.00	7,618.00	12,724.71	7,730.00	70.39	97.51	-94.86	-1,699.37	4,549.64	1,344.50	1,233.25	111.25	12.086	
12,100.00	7,618.00	12,824.71	7,730.00	70.97	97.69	-94.86	-1,799.37	4,549.30	1,344.50	1,230.86	113.64	11.832	
12,200.00	7,618.00	12,924.71	7,730.00	71.63	97.91	-94.86	-1,899.37	4,548.96	1,344.50	1,228.42	116.08	11.582	
12,300.00	7,618.00	13,024.71	7,730.00	72.35	98.15	-94.86	-1,999.37	4,548.62	1,344.50	1,225.92	118.58	11.338	
12,400.00	7,618.00	13,124.71	7,730.00	73.15	98.42	-94.86	-2,099.37	4,548.28	1,344.50	1,223.37	121.13	11.099	
12,500.00	7,618.00	13,224.71	7,730.00	74.01	98.73	-94.86	-2,199.37	4,547.95	1,344.50	1,220.77	123.73	10.866	
12,600.00	7,618.00	13,324.71	7,730.00	74.93	99.06	-94.86	-2,299.37	4,547.61	1,344.50	1,218.13	126.38	10.639	
12,700.00	7,618.00	13,424.71	7,730.00	75.91	99.43	-94.86	-2,399.37	4,547.27	1,344.50	1,215.44	129.06	10.418	
12,800.00	7,618.00	13,524.71	7,730.00	76.95	99.84	-94.86	-2,499.37	4,546.93	1,344.50	1,212.72	131.79	10.202	
12,900.00	7,618.00	13,624.71	7,730.00	78.04	100.29	-94.86	-2,599.37	4,546.59	1,344.50	1,209.95	134.55	9.993	
13,000.00	7,618.00	13,724.71	7,730.00	79.16	100.77	-94.86	-2,699.37	4,546.25	1,344.50	1,207.16	137.35	9.789	
13,100.00	7,618.00	13,824.71	7,730.00	80.33	101.29	-94.86	-2,799.37	4,545.91	1,344.50	1,204.33	140.18	9.592	
13,200.00	7,618.00	13,924.71	7,730.00	81.54	101.85	-94.86	-2,899.37	4,545.58	1,344.50	1,201.47	143.04	9.400	
13,300.00	7,618.00	14,024.71	7,730.00	82.78	102.45	-94.86	-2,999.37	4,545.24	1,344.51	1,198.58	145.93	9.214	
13,400.00	7,618.00	14,124.71	7,730.00	84.05	103.09	-94.86	-3,099.36	4,544.90	1,344.51	1,195.66	148.84	9.033	
13,500.00	7,618.00	14,224.71	7,730.00	85.35	103.77	-94.86	-3,199.36	4,544.56	1,344.51	1,192.72	151.78	8.858	
13,600.00	7,618.00	14,324.71	7,730.00	86.67	104.50	-94.86	-3,299.36	4,544.22	1,344.51	1,189.76	154.75	8.688	
13,700.00	7,618.00	14,424.71	7,730.00	88.02	105.26	-94.86	-3,399.36	4,543.88	1,344.51	1,186.77	157.74	8.524	
13,800.00	7,618.00	14,524.71	7,730.00	89.38	106.07	-94.86	-3,499.36	4,543.54	1,344.51	1,183.76	160.75	8.364	
13,900.00	7,618.00	14,624.71	7,730.00	90.77	106.91	-94.86	-3,599.36	4,543.21	1,344.51	1,180.72	163.78	8.209	
14,000.00	7,618.00	14,724.71	7,730.00	92.17	107.79	-94.86	-3,699.36	4,542.87	1,344.51	1,177.67	166.84	8.059	
14,100.00	7,618.00	14,824.71	7,730.00	93.59	108.71	-94.86	-3,799.36	4,542.53	1,344.51	1,174.61	169.90	7.913	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,618.00	14,924.71	7,730.00	95.02	109.67	-94.86	-3,899.36	4,542.19	1,344.51	1,171.52	172.99	7.772	
14,300.00	7,618.00	15,024.71	7,730.00	96.47	110.66	-94.86	-3,999.36	4,541.85	1,344.51	1,168.42	176.09	7.635	
14,400.00	7,618.00	15,124.71	7,730.00	97.93	111.69	-94.86	-4,099.36	4,541.51	1,344.51	1,165.30	179.21	7.502	
14,500.00	7,618.00	15,224.71	7,730.00	99.41	112.75	-94.86	-4,199.36	4,541.17	1,344.51	1,162.17	182.35	7.373	
14,600.00	7,618.00	15,324.71	7,730.00	100.89	113.84	-94.86	-4,299.36	4,540.84	1,344.51	1,159.02	185.49	7.248	
14,700.00	7,618.00	15,424.71	7,730.00	102.38	114.96	-94.86	-4,399.36	4,540.50	1,344.51	1,155.86	188.66	7.127	
14,800.00	7,618.00	15,524.71	7,730.00	103.89	116.11	-94.86	-4,499.36	4,540.16	1,344.51	1,152.69	191.83	7.009	
14,900.00	7,618.00	15,624.71	7,730.00	105.40	117.29	-94.86	-4,599.36	4,539.82	1,344.51	1,149.50	195.01	6.894	
15,000.00	7,618.00	15,724.71	7,730.00	106.92	118.49	-94.86	-4,699.36	4,539.48	1,344.52	1,146.30	198.21	6.783	
15,100.00	7,618.00	15,824.71	7,730.00	108.45	119.71	-94.86	-4,799.36	4,539.14	1,344.52	1,143.10	201.42	6.675	
15,200.00	7,618.00	15,924.71	7,730.00	109.99	120.96	-94.86	-4,899.35	4,538.80	1,344.52	1,139.88	204.64	6.570	
15,300.00	7,618.00	16,024.71	7,730.00	111.54	122.23	-94.86	-4,999.35	4,538.47	1,344.52	1,136.65	207.87	6.468	
15,400.00	7,618.00	16,124.71	7,730.00	113.09	123.52	-94.86	-5,099.35	4,538.13	1,344.52	1,133.41	211.10	6.369	
15,500.00	7,618.00	16,224.71	7,730.00	114.65	124.83	-94.86	-5,199.35	4,537.79	1,344.52	1,130.17	214.35	6.273	
15,600.00	7,618.00	16,324.71	7,730.00	116.21	126.15	-94.86	-5,299.35	4,537.45	1,344.52	1,126.91	217.60	6.179	
15,700.00	7,618.00	16,424.71	7,730.00	117.78	127.50	-94.86	-5,399.35	4,537.11	1,344.52	1,123.65	220.87	6.087	
15,800.00	7,618.00	16,524.71	7,730.00	119.36	128.86	-94.86	-5,499.35	4,536.77	1,344.52	1,120.38	224.14	5.999	
15,900.00	7,618.00	16,624.71	7,730.00	120.94	130.23	-94.86	-5,599.35	4,536.43	1,344.52	1,117.10	227.42	5.912	
16,000.00	7,618.00	16,724.71	7,730.00	122.53	131.62	-94.86	-5,699.35	4,536.10	1,344.52	1,113.82	230.70	5.828	
16,100.00	7,618.00	16,824.71	7,730.00	124.12	133.02	-94.86	-5,799.35	4,535.76	1,344.52	1,110.52	234.00	5.746	
16,200.00	7,618.00	16,924.71	7,730.00	125.72	134.44	-94.86	-5,899.35	4,535.42	1,344.52	1,107.22	237.30	5.666	
16,300.00	7,618.00	17,024.71	7,730.00	127.32	135.87	-94.86	-5,999.35	4,535.08	1,344.52	1,103.92	240.60	5.588	
16,400.00	7,618.00	17,124.71	7,730.00	128.93	137.30	-94.86	-6,099.35	4,534.74	1,344.52	1,100.61	243.92	5.512	
16,500.00	7,618.00	17,224.71	7,730.00	130.54	138.75	-94.86	-6,199.35	4,534.40	1,344.52	1,097.29	247.23	5.438	
16,600.00	7,618.00	17,324.71	7,730.00	132.15	140.21	-94.86	-6,299.35	4,534.06	1,344.52	1,093.97	250.56	5.366	
16,700.00	7,618.00	17,424.71	7,730.00	133.77	141.68	-94.86	-6,399.35	4,533.73	1,344.53	1,090.64	253.89	5.296	
16,800.00	7,618.00	17,524.71	7,730.00	135.39	143.16	-94.86	-6,499.35	4,533.39	1,344.53	1,087.30	257.22	5.227	
16,900.00	7,618.00	17,624.71	7,730.00	137.01	144.65	-94.86	-6,599.34	4,533.05	1,344.53	1,083.97	260.56	5.160	
17,000.00	7,618.00	17,724.71	7,730.00	138.64	146.15	-94.86	-6,699.34	4,532.71	1,344.53	1,080.62	263.90	5.095	
17,100.00	7,618.00	17,824.71	7,730.00	140.27	147.65	-94.86	-6,799.34	4,532.37	1,344.53	1,077.27	267.25	5.031	
17,200.00	7,618.00	17,924.71	7,730.00	141.91	149.17	-94.86	-6,899.34	4,532.03	1,344.53	1,073.92	270.61	4.969	
17,300.00	7,618.00	18,024.71	7,730.00	143.55	150.69	-94.86	-6,999.34	4,531.69	1,344.53	1,070.56	273.96	4.908	
17,400.00	7,618.00	18,124.71	7,730.00	145.19	152.21	-94.86	-7,099.34	4,531.36	1,344.53	1,067.20	277.33	4.848	
17,500.00	7,618.00	18,224.71	7,730.00	146.83	153.75	-94.86	-7,199.34	4,531.02	1,344.53	1,063.84	280.69	4.790	
17,600.00	7,618.00	18,324.71	7,730.00	148.48	155.28	-94.86	-7,299.34	4,530.68	1,344.53	1,060.47	284.06	4.733	
17,700.00	7,618.00	18,424.71	7,730.00	150.13	156.83	-94.86	-7,399.34	4,530.34	1,344.53	1,057.10	287.43	4.678	
17,800.00	7,618.00	18,524.71	7,730.00	151.78	158.38	-94.86	-7,499.34	4,530.00	1,344.53	1,053.72	290.81	4.623	
17,900.00	7,618.00	18,624.71	7,730.00	153.43	159.94	-94.86	-7,599.34	4,529.66	1,344.53	1,050.34	294.19	4.570	
18,000.00	7,618.00	18,724.71	7,730.00	155.09	161.50	-94.86	-7,699.34	4,529.32	1,344.53	1,046.96	297.57	4.518	
18,100.00	7,618.00	18,824.71	7,730.00	156.75	163.07	-94.86	-7,799.34	4,528.99	1,344.53	1,043.57	300.96	4.467	
18,200.00	7,618.00	18,924.71	7,730.00	158.41	164.64	-94.86	-7,899.34	4,528.65	1,344.53	1,040.18	304.35	4.418	
18,300.00	7,618.00	19,024.71	7,730.00	160.07	166.22	-94.86	-7,999.34	4,528.31	1,344.53	1,036.79	307.74	4.369	
18,400.00	7,618.00	19,124.71	7,730.00	161.74	167.80	-94.86	-8,099.34	4,527.97	1,344.53	1,033.40	311.14	4.321	
18,500.00	7,618.00	19,224.71	7,730.00	163.41	169.38	-94.86	-8,199.34	4,527.63	1,344.54	1,030.00	314.54	4.275	
18,600.00	7,618.00	19,324.71	7,730.00	165.08	170.97	-94.86	-8,299.34	4,527.29	1,344.54	1,026.60	317.94	4.229	
18,700.00	7,618.00	19,424.71	7,730.00	166.75	172.57	-94.86	-8,399.33	4,526.95	1,344.54	1,023.19	321.34	4.184	
18,700.00	7,618.00	19,424.71	7,730.00	166.75	172.57	-94.86	-8,399.33	4,526.95	1,344.54	1,023.19	321.34	4.184	
18,711.30	7,618.00	19,430.54	7,730.00	166.94	172.66	-94.86	-8,405.16	4,526.93	1,344.55	1,022.57	321.98	4.176	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	2.00	-2.00	0.00	0.00	90.42	-0.36	50.12	50.12				
100.00	100.00	102.00	98.00	0.13	0.14	90.42	-0.36	50.12	50.12	49.85	0.28	181.585	
200.00	200.00	202.00	198.00	0.49	0.50	90.42	-0.36	50.12	50.12	49.13	0.99	50.477	
300.00	300.00	302.00	298.00	0.85	0.86	90.42	-0.36	50.12	50.12	48.41	1.71	29.313	
400.00	400.00	398.00	398.00	1.21	1.20	90.42	-0.36	50.12	50.12	47.71	2.41	20.776	CC, ES
500.00	500.00	496.42	496.40	1.57	1.55	89.69	0.28	51.61	51.64	48.52	3.12	16.550	
600.00	600.00	594.58	594.43	1.93	1.90	87.71	2.25	56.19	56.35	52.52	3.82	14.735	
700.00	700.00	692.28	691.78	2.29	2.26	85.05	5.52	63.81	64.35	59.82	4.53	14.220	
800.00	800.00	789.31	788.11	2.64	2.62	82.29	10.07	74.38	75.71	70.49	5.22	14.500	
900.00	900.00	885.45	883.13	3.00	3.01	79.77	15.85	87.81	90.46	84.55	5.91	15.306	
1,000.00	999.98	980.81	976.84	3.36	3.41	20.64	22.82	104.02	106.97	100.39	6.58	16.248	
1,100.00	1,099.84	1,075.65	1,069.40	3.71	3.84	19.47	30.97	122.97	123.54	116.29	7.25	17.050	
1,200.00	1,199.45	1,169.98	1,160.74	4.07	4.31	18.79	40.28	144.60	140.10	132.19	7.90	17.732	
1,300.00	1,298.70	1,263.81	1,250.78	4.44	4.81	18.45	50.71	168.85	156.60	148.04	8.56	18.293	
1,400.00	1,397.47	1,357.15	1,339.44	4.82	5.34	18.34	62.23	195.64	173.01	163.79	9.22	18.766	
1,500.00	1,495.62	1,450.01	1,426.66	5.22	5.92	18.40	74.83	224.92	189.33	179.45	9.88	19.161	
1,600.00	1,593.06	1,542.40	1,512.37	5.65	6.55	18.60	88.46	256.61	205.53	194.98	10.55	19.485	
1,700.00	1,689.64	1,634.34	1,596.50	6.11	7.22	18.89	103.10	290.64	221.60	210.38	11.22	19.745	
1,800.00	1,785.27	1,725.82	1,679.00	6.61	7.93	19.26	118.72	326.95	237.54	225.63	11.91	19.944	
1,900.00	1,879.82	1,816.87	1,759.81	7.15	8.70	19.70	135.29	365.48	253.34	240.73	12.61	20.084	
2,000.00	1,973.17	1,907.50	1,838.88	7.73	9.52	20.18	152.78	406.15	268.99	255.65	13.34	20.166	
2,100.00	2,065.21	1,997.71	1,916.17	8.37	10.39	20.70	171.17	448.89	284.50	270.41	14.09	20.191	
2,200.00	2,155.84	2,087.53	1,991.61	9.07	11.32	21.26	190.42	493.65	299.85	284.97	14.87	20.158	
2,300.00	2,244.94	2,176.95	2,065.18	9.82	12.30	21.84	210.51	540.34	315.04	299.35	15.70	20.069	
2,400.00	2,332.39	2,266.00	2,136.82	10.64	13.33	22.45	231.41	588.92	330.08	313.51	16.57	19.924	
2,500.00	2,418.11	2,354.68	2,206.50	11.53	14.42	23.07	253.08	639.30	344.96	327.47	17.49	19.725	
2,558.91	2,467.74	2,406.75	2,246.62	12.08	15.07	23.45	266.20	669.80	353.64	335.59	18.06	19.586	
2,600.00	2,502.13	2,445.60	2,276.21	12.47	15.58	23.77	276.14	692.91	359.85	341.32	18.53	19.424	
2,700.00	2,585.83	2,544.31	2,351.36	13.45	16.88	24.54	301.43	751.71	375.08	355.28	19.80	18.943	
2,800.00	2,669.53	2,643.02	2,426.50	14.44	18.19	25.25	326.73	810.51	390.38	369.27	21.12	18.488	
2,900.00	2,753.22	2,741.73	2,501.65	15.46	19.51	25.91	352.02	869.31	405.74	383.27	22.47	18.060	
3,000.00	2,836.92	2,840.44	2,576.79	16.48	20.85	26.52	377.31	928.11	421.14	397.29	23.85	17.660	
3,100.00	2,920.62	2,939.15	2,651.94	17.52	22.18	27.08	402.61	986.91	436.59	411.33	25.26	17.285	
3,200.00	3,004.32	3,037.87	2,727.08	18.56	23.53	27.61	427.90	1,045.71	452.07	425.38	26.69	16.936	
3,300.00	3,088.01	3,136.58	2,802.23	19.61	24.87	28.10	453.19	1,104.51	467.59	439.44	28.15	16.610	
3,400.00	3,171.71	3,235.29	2,877.37	20.67	26.23	28.56	478.49	1,163.31	483.14	453.51	29.63	16.306	
3,500.00	3,255.41	3,334.00	2,952.52	21.73	27.58	28.99	503.78	1,222.11	498.72	467.60	31.13	16.023	
3,600.00	3,339.10	3,432.71	3,027.66	22.80	28.94	29.40	529.07	1,280.91	514.33	481.69	32.64	15.758	
3,700.00	3,422.80	3,531.42	3,102.81	23.87	30.30	29.78	554.37	1,339.71	529.96	495.79	34.17	15.511	
3,800.00	3,506.50	3,630.13	3,177.95	24.94	31.66	30.14	579.66	1,398.51	545.61	509.90	35.71	15.280	
3,900.00	3,590.20	3,728.84	3,253.10	26.02	33.03	30.48	604.95	1,457.31	561.28	524.02	37.26	15.063	
4,000.00	3,673.89	3,827.56	3,328.24	27.10	34.40	30.80	630.25	1,516.11	576.97	538.15	38.83	14.860	
4,100.00	3,757.59	3,926.27	3,403.39	28.18	35.77	31.11	655.54	1,574.91	592.68	552.28	40.40	14.670	
4,200.00	3,841.29	4,024.98	3,478.53	29.26	37.13	31.40	680.83	1,633.71	608.40	566.41	41.99	14.491	
4,300.00	3,924.99	4,123.69	3,553.68	30.35	38.51	31.67	706.13	1,692.50	624.14	580.56	43.58	14.322	
4,400.00	4,008.68	4,222.40	3,628.82	31.44	39.88	31.93	731.42	1,751.30	639.88	594.71	45.18	14.163	
4,500.00	4,092.38	4,321.11	3,703.97	32.52	41.25	32.18	756.71	1,810.10	655.65	608.86	46.79	14.014	
4,600.00	4,176.08	4,419.82	3,779.11	33.62	42.62	32.41	782.01	1,868.90	671.42	623.02	48.40	13.872	
4,700.00	4,259.77	4,518.53	3,854.26	34.71	44.00	32.64	807.30	1,927.70	687.20	637.18	50.02	13.738	
4,800.00	4,343.47	4,617.24	3,929.40	35.80	45.37	32.86	832.59	1,986.50	703.00	651.35	51.65	13.611	
4,900.00	4,427.17	4,715.96	4,004.55	36.89	46.75	33.06	857.89	2,045.30	718.80	665.52	53.28	13.491	
5,000.00	4,510.87	4,814.67	4,079.69	37.99	48.13	33.26	883.18	2,104.10	734.61	679.69	54.92	13.377	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	4,913.38	4,154.84	39.08	49.50	33.45	908.47	2,162.90	750.43	693.87	56.56	13.268	
5,200.00	4,678.26	5,012.09	4,229.98	40.18	50.88	33.63	933.77	2,221.70	766.26	708.05	58.20	13.165	
5,300.00	4,761.96	5,110.80	4,305.13	41.28	52.26	33.80	959.06	2,280.50	782.09	722.24	59.85	13.067	
5,400.00	4,845.66	5,209.51	4,380.27	42.37	53.64	33.97	984.35	2,339.30	797.93	736.43	61.51	12.973	
5,500.00	4,929.35	5,308.22	4,455.42	43.47	55.02	34.13	1,009.65	2,398.10	813.78	750.62	63.16	12.883	
5,600.00	5,013.05	5,406.93	4,530.56	44.57	56.40	34.28	1,034.94	2,456.90	829.63	764.81	64.82	12.798	
5,700.00	5,096.75	5,505.65	4,605.71	45.67	57.78	34.43	1,060.23	2,515.70	845.49	779.00	66.49	12.716	
5,800.00	5,180.45	5,604.36	4,680.85	46.77	59.16	34.58	1,085.53	2,574.50	861.36	793.20	68.15	12.638	
5,900.00	5,264.14	5,703.07	4,756.00	47.87	60.54	34.71	1,110.82	2,633.29	877.23	807.40	69.82	12.563	
6,000.00	5,347.84	5,801.78	4,831.14	48.97	61.92	34.85	1,136.11	2,692.09	893.10	821.61	71.50	12.492	
6,100.00	5,431.54	5,900.49	4,906.29	50.07	63.30	34.97	1,161.41	2,750.89	908.98	835.81	73.17	12.423	
6,200.00	5,515.23	6,000.80	4,981.43	51.17	64.70	35.10	1,186.70	2,809.69	924.86	850.00	74.86	12.355	
6,300.00	5,598.93	6,102.09	5,056.58	52.27	66.12	35.22	1,211.99	2,868.49	940.75	864.19	76.56	12.288	
6,400.00	5,682.63	6,203.38	5,131.72	53.38	67.54	35.33	1,237.29	2,927.29	956.64	878.38	78.26	12.224	
6,500.00	5,766.33	6,304.67	5,206.87	54.48	68.95	35.45	1,262.58	2,986.09	972.54	892.57	79.96	12.162	
6,600.00	5,850.02	6,394.05	5,282.01	55.58	70.21	35.55	1,287.87	3,044.89	988.43	906.86	81.57	12.117	
6,700.00	5,933.72	6,507.24	5,357.16	56.68	71.79	35.66	1,313.17	3,103.69	1,004.34	920.96	83.38	12.046	
6,800.00	6,017.42	6,591.47	5,432.31	57.79	72.97	35.76	1,338.46	3,162.49	1,020.24	935.30	84.95	12.011	
6,900.00	6,101.12	6,709.82	5,507.45	58.89	74.63	35.86	1,363.75	3,221.29	1,036.15	949.35	86.80	11.938	
7,000.00	6,184.81	6,788.89	5,582.60	59.99	75.74	35.96	1,389.05	3,280.09	1,052.06	963.73	88.33	11.911	
7,100.00	6,268.51	6,887.60	5,657.74	61.10	77.12	36.05	1,414.34	3,338.89	1,067.97	977.95	90.02	11.864	
7,200.00	6,352.21	6,986.31	5,732.89	62.20	78.50	36.14	1,439.63	3,397.69	1,083.89	992.18	91.71	11.818	
7,300.00	6,435.90	7,085.02	5,808.03	63.31	79.88	36.23	1,464.93	3,456.49	1,099.81	1,006.40	93.41	11.774	
7,400.00	6,519.60	7,183.73	5,883.18	64.41	81.27	36.31	1,490.22	3,515.29	1,115.73	1,020.63	95.10	11.732	
7,500.00	6,603.30	7,282.45	5,958.32	65.51	82.65	36.39	1,515.51	3,574.09	1,131.65	1,034.85	96.80	11.691	
7,600.00	6,687.00	7,381.16	6,033.47	66.62	84.03	36.47	1,540.81	3,632.88	1,147.58	1,049.08	98.50	11.651	
7,700.00	6,770.69	7,479.87	6,108.61	67.72	85.42	36.55	1,566.10	3,691.68	1,163.50	1,063.31	100.20	11.612	
7,800.00	6,854.39	7,578.58	6,183.76	68.83	86.80	36.63	1,591.39	3,750.48	1,179.43	1,077.54	101.90	11.575	
7,900.00	6,938.09	7,677.29	6,258.90	69.93	88.18	36.70	1,616.69	3,809.28	1,195.37	1,091.77	103.60	11.538	
7,933.18	6,965.86	7,710.04	6,283.83	70.30	88.64	36.72	1,625.08	3,828.79	1,200.65	1,096.49	104.17	11.526	
7,950.00	6,980.00	7,726.65	6,296.48	70.49	88.88	34.67	1,629.33	3,838.69	1,203.30	1,098.87	104.43	11.522	
8,000.00	7,022.68	7,776.00	6,334.04	71.01	89.57	27.71	1,641.98	3,868.08	1,210.73	1,105.74	104.99	11.531	
8,050.00	7,066.06	7,825.01	6,371.35	71.51	90.25	19.60	1,654.54	3,897.27	1,217.51	1,112.30	105.21	11.573	
8,100.00	7,109.82	7,873.31	6,408.12	71.97	90.93	10.70	1,666.91	3,926.04	1,223.65	1,118.59	105.06	11.647	
8,150.00	7,153.63	7,920.53	6,444.07	72.38	91.59	1.51	1,679.01	3,954.17	1,229.23	1,124.66	104.57	11.755	
8,200.00	7,197.14	7,966.31	6,478.92	72.74	92.24	-7.45	1,690.74	3,981.44	1,234.35	1,130.62	103.74	11.899	
8,250.00	7,240.04	8,010.30	6,512.41	73.05	92.85	-15.75	1,702.02	4,007.65	1,239.17	1,136.59	102.58	12.080	
8,300.00	7,281.99	8,052.18	6,544.29	73.31	93.44	-23.15	1,712.75	4,032.59	1,243.84	1,142.72	101.12	12.300	
8,350.00	7,322.67	8,108.39	6,574.31	73.52	94.23	-29.59	1,722.85	4,056.08	1,248.58	1,149.05	99.53	12.545	
8,400.00	7,361.77	8,128.31	6,602.25	73.68	94.51	-35.09	1,732.25	4,077.94	1,253.58	1,156.11	97.46	12.862	
8,450.00	7,399.01	8,161.99	6,627.88	73.78	94.98	-39.70	1,740.88	4,098.00	1,259.05	1,163.68	95.37	13.202	
8,500.00	7,434.08	8,207.61	6,651.03	73.85	95.62	-43.51	1,748.67	4,116.11	1,265.21	1,171.92	93.28	13.563	
8,550.00	7,466.74	8,219.29	6,671.50	73.87	95.78	-46.58	1,755.56	4,132.13	1,272.23	1,181.25	90.98	13.984	
8,600.00	7,496.72	8,242.47	6,689.15	73.85	96.11	-48.95	1,761.51	4,145.94	1,280.27	1,191.43	88.84	14.411	
8,650.00	7,523.80	8,261.77	6,703.84	73.79	96.38	-50.67	1,766.45	4,157.44	1,289.46	1,202.60	86.86	14.844	
8,700.00	7,547.77	8,277.03	6,715.46	73.70	96.59	-51.76	1,770.36	4,166.53	1,299.89	1,214.76	85.12	15.270	
8,750.00	7,568.45	8,288.14	6,723.92	73.58	96.75	-52.26	1,773.21	4,173.15	1,311.58	1,227.89	83.69	15.672	
8,800.00	7,585.69	8,304.98	6,729.15	73.43	96.98	-52.18	1,774.97	4,177.25	1,324.52	1,241.84	82.68	16.020	
8,850.00	7,599.35	8,302.39	6,731.12	73.26	96.95	-51.55	1,775.63	4,178.79	1,338.65	1,256.68	81.97	16.330	
8,900.00	7,609.33	8,295.89	6,729.82	73.07	96.86	-50.40	1,775.19	4,177.76	1,353.84	1,272.17	81.67	16.577	
8,950.00	7,615.55	8,289.88	6,725.24	72.87	96.77	-48.77	1,773.65	4,174.18	1,369.93	1,288.15	81.78	16.751	
9,000.00	7,617.97	8,279.61	6,717.43	72.65	96.63	-46.71	1,771.02	4,168.07	1,386.71	1,304.48	82.24	16.863	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,006.60	7,618.00	8,277.94	6,716.16	72.62	96.60	-46.41	1,770.59	4,167.08	1,388.97	1,306.65	82.32	16.873	
9,100.00	7,618.00	8,253.82	6,697.79	72.22	96.27	-45.40	1,764.41	4,152.71	1,423.43	1,339.38	84.05	16.936	
9,200.00	7,618.00	8,228.00	6,678.13	71.80	95.90	-44.31	1,757.80	4,137.32	1,465.60	1,378.78	86.81	16.883	
9,300.00	7,618.00	8,202.17	6,658.47	71.41	95.54	-43.23	1,751.18	4,121.94	1,512.76	1,422.56	90.21	16.770	
9,400.00	7,618.00	8,176.35	6,638.81	71.04	95.18	-42.16	1,744.56	4,106.56	1,564.48	1,470.53	93.95	16.652	
9,500.00	7,618.00	8,150.52	6,619.15	70.68	94.82	-41.10	1,737.94	4,091.17	1,620.32	1,522.49	97.83	16.563	
9,600.00	7,618.00	10,414.22	7,630.00	70.35	106.56	-90.48	699.56	4,877.49	1,659.43	1,572.20	87.23	19.024	
9,700.00	7,618.00	10,514.22	7,630.00	70.04	106.32	-90.48	599.56	4,877.16	1,659.43	1,572.50	86.94	19.088	
9,800.00	7,618.00	10,614.22	7,630.00	69.75	106.10	-90.48	499.56	4,876.82	1,659.44	1,572.64	86.79	19.120	
9,900.00	7,618.00	10,714.22	7,630.00	69.47	105.89	-90.48	399.56	4,876.48	1,659.44	1,572.65	86.79	19.120	
10,000.00	7,618.00	10,814.22	7,630.00	69.22	105.69	-90.48	299.56	4,876.14	1,659.44	1,572.51	86.93	19.089	
10,100.00	7,618.00	10,914.22	7,630.00	68.99	105.51	-90.48	199.56	4,875.81	1,659.44	1,572.22	87.22	19.026	
10,200.00	7,618.00	11,014.22	7,630.00	68.78	105.34	-90.48	99.56	4,875.47	1,659.44	1,571.80	87.65	18.934	
10,300.00	7,618.00	11,114.22	7,630.00	68.59	105.19	-90.48	-0.44	4,875.13	1,659.45	1,571.23	88.21	18.812	
10,400.00	7,618.00	11,214.22	7,630.00	68.42	105.04	-90.48	-100.44	4,874.80	1,659.45	1,570.53	88.92	18.662	
10,500.00	7,618.00	11,314.22	7,630.00	68.28	104.92	-90.48	-200.44	4,874.46	1,659.45	1,569.69	89.76	18.488	
10,600.00	7,618.00	11,414.22	7,630.00	68.16	104.80	-90.48	-300.44	4,874.12	1,659.45	1,568.72	90.73	18.290	
10,700.00	7,618.00	11,514.22	7,630.00	68.06	104.70	-90.48	-400.44	4,873.78	1,659.45	1,567.63	91.82	18.072	
10,800.00	7,618.00	11,614.22	7,630.00	67.99	104.62	-90.48	-500.44	4,873.45	1,659.46	1,566.42	93.04	17.836	
10,900.00	7,618.00	11,714.22	7,630.00	67.95	104.54	-90.48	-600.44	4,873.11	1,659.46	1,565.08	94.37	17.584	
11,000.00	7,618.00	11,814.22	7,630.00	67.95	104.49	-90.48	-700.44	4,872.77	1,659.46	1,563.64	95.82	17.319	
11,100.00	7,618.00	11,914.22	7,630.00	67.97	104.45	-90.48	-800.44	4,872.44	1,659.46	1,562.09	97.37	17.043	
11,200.00	7,618.00	12,014.22	7,630.00	68.04	104.42	-90.48	-900.43	4,872.10	1,659.47	1,560.44	99.03	16.758	
11,300.00	7,618.00	12,114.22	7,630.00	68.15	104.42	-90.48	-1,000.43	4,871.76	1,659.47	1,558.69	100.78	16.467	
11,400.00	7,618.00	12,214.22	7,630.00	68.30	104.42	-90.48	-1,100.43	4,871.43	1,659.47	1,556.85	102.62	16.171	
11,500.00	7,618.00	12,314.22	7,630.00	68.50	104.45	-90.48	-1,200.43	4,871.09	1,659.47	1,554.92	104.55	15.873	
11,600.00	7,618.00	12,414.22	7,630.00	68.75	104.49	-90.48	-1,300.43	4,870.75	1,659.47	1,552.91	106.56	15.573	
11,700.00	7,618.00	12,514.22	7,630.00	69.06	104.56	-90.48	-1,400.43	4,870.41	1,659.48	1,550.83	108.65	15.274	
11,800.00	7,618.00	12,614.22	7,630.00	69.44	104.64	-90.48	-1,500.43	4,870.08	1,659.48	1,548.67	110.81	14.976	
11,900.00	7,618.00	12,714.22	7,630.00	69.88	104.74	-90.48	-1,600.43	4,869.74	1,659.48	1,546.44	113.04	14.680	
12,000.00	7,618.00	12,814.22	7,630.00	70.39	104.87	-90.48	-1,700.43	4,869.40	1,659.48	1,544.14	115.34	14.388	
12,100.00	7,618.00	12,914.22	7,630.00	70.97	105.01	-90.48	-1,800.43	4,869.07	1,659.48	1,541.79	117.70	14.099	
12,200.00	7,618.00	13,014.22	7,630.00	71.63	105.18	-90.48	-1,900.43	4,868.73	1,659.49	1,539.37	120.11	13.816	
12,300.00	7,618.00	13,114.22	7,630.00	72.35	105.37	-90.48	-2,000.43	4,868.39	1,659.49	1,536.91	122.58	13.538	
12,400.00	7,618.00	13,214.22	7,630.00	73.15	105.59	-90.48	-2,100.43	4,868.05	1,659.49	1,534.39	125.10	13.265	
12,500.00	7,618.00	13,314.22	7,630.00	74.01	105.83	-90.48	-2,200.43	4,867.72	1,659.49	1,531.82	127.67	12.998	
12,600.00	7,618.00	13,414.22	7,630.00	74.93	106.10	-90.48	-2,300.43	4,867.38	1,659.49	1,529.21	130.29	12.737	
12,700.00	7,618.00	13,514.22	7,630.00	75.91	106.40	-90.48	-2,400.43	4,867.04	1,659.50	1,526.56	132.94	12.483	
12,800.00	7,618.00	13,614.22	7,630.00	76.95	106.73	-90.48	-2,500.43	4,866.71	1,659.50	1,523.86	135.64	12.235	
12,900.00	7,618.00	13,714.22	7,630.00	78.04	107.08	-90.48	-2,600.43	4,866.37	1,659.50	1,521.13	138.37	11.993	
13,000.00	7,618.00	13,814.22	7,630.00	79.16	107.47	-90.48	-2,700.42	4,866.03	1,659.50	1,518.36	141.14	11.758	
13,100.00	7,618.00	13,914.22	7,630.00	80.33	107.89	-90.48	-2,800.42	4,865.70	1,659.50	1,515.56	143.94	11.529	
13,200.00	7,618.00	14,014.22	7,630.00	81.54	108.35	-90.48	-2,900.42	4,865.36	1,659.51	1,512.73	146.78	11.306	
13,300.00	7,618.00	14,114.22	7,630.00	82.78	108.84	-90.48	-3,000.42	4,865.02	1,659.51	1,509.87	149.64	11.090	
13,400.00	7,618.00	14,214.22	7,630.00	84.05	109.36	-90.48	-3,100.42	4,864.68	1,659.51	1,506.98	152.53	10.880	
13,500.00	7,618.00	14,314.22	7,630.00	85.35	109.92	-90.48	-3,200.42	4,864.35	1,659.51	1,504.06	155.45	10.675	
13,600.00	7,618.00	14,414.22	7,630.00	86.67	110.52	-90.48	-3,300.42	4,864.01	1,659.52	1,501.12	158.39	10.477	
13,700.00	7,618.00	14,514.22	7,630.00	88.02	111.15	-90.48	-3,400.42	4,863.67	1,659.52	1,498.16	161.36	10.284	
13,800.00	7,618.00	14,614.22	7,630.00	89.38	111.82	-90.48	-3,500.42	4,863.34	1,659.52	1,495.17	164.35	10.097	
13,900.00	7,618.00	14,714.22	7,630.00	90.77	112.53	-90.48	-3,600.42	4,863.00	1,659.52	1,492.16	167.36	9.916	
14,000.00	7,618.00	14,814.22	7,630.00	92.17	113.27	-90.48	-3,700.42	4,862.66	1,659.52	1,489.13	170.39	9.739	
14,100.00	7,618.00	14,914.22	7,630.00	93.59	114.05	-90.48	-3,800.42	4,862.32	1,659.53	1,486.08	173.44	9.568	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,618.00	15,014.22	7,630.00	95.02	114.87	-90.48	-3,900.42	4,861.99	1,659.53	1,483.02	176.51	9.402	
14,300.00	7,618.00	15,114.22	7,630.00	96.47	115.72	-90.48	-4,000.42	4,861.65	1,659.53	1,479.93	179.60	9.240	
14,400.00	7,618.00	15,214.22	7,630.00	97.93	116.61	-90.48	-4,100.42	4,861.31	1,659.53	1,476.83	182.70	9.083	
14,500.00	7,618.00	15,314.22	7,630.00	99.41	117.53	-90.48	-4,200.42	4,860.98	1,659.53	1,473.72	185.81	8.931	
14,600.00	7,618.00	15,414.22	7,630.00	100.89	118.49	-90.48	-4,300.42	4,860.64	1,659.54	1,470.59	188.95	8.783	
14,700.00	7,618.00	15,514.22	7,630.00	102.38	119.48	-90.48	-4,400.42	4,860.30	1,659.54	1,467.45	192.09	8.639	
14,800.00	7,618.00	15,614.22	7,630.00	103.89	120.50	-90.48	-4,500.41	4,859.97	1,659.54	1,464.29	195.25	8.500	
14,900.00	7,618.00	15,714.22	7,630.00	105.40	121.55	-90.48	-4,600.41	4,859.63	1,659.54	1,461.12	198.42	8.364	
15,000.00	7,618.00	15,814.22	7,630.00	106.92	122.63	-90.48	-4,700.41	4,859.29	1,659.54	1,457.94	201.60	8.232	
15,100.00	7,618.00	15,914.22	7,630.00	108.45	123.74	-90.48	-4,800.41	4,858.95	1,659.55	1,454.75	204.80	8.103	
15,200.00	7,618.00	16,014.22	7,630.00	109.99	124.87	-90.48	-4,900.41	4,858.62	1,659.55	1,451.54	208.01	7.978	
15,300.00	7,618.00	16,114.22	7,630.00	111.54	126.04	-90.48	-5,000.41	4,858.28	1,659.55	1,448.33	211.22	7.857	
15,400.00	7,618.00	16,214.22	7,630.00	113.09	127.22	-90.48	-5,100.41	4,857.94	1,659.55	1,445.10	214.45	7.739	
15,500.00	7,618.00	16,314.22	7,630.00	114.65	128.43	-90.48	-5,200.41	4,857.61	1,659.55	1,441.87	217.68	7.624	
15,600.00	7,618.00	16,414.22	7,630.00	116.21	129.66	-90.48	-5,300.41	4,857.27	1,659.56	1,438.63	220.93	7.512	
15,700.00	7,618.00	16,514.22	7,630.00	117.78	130.91	-90.48	-5,400.41	4,856.93	1,659.56	1,435.38	224.18	7.403	
15,800.00	7,618.00	16,614.22	7,630.00	119.36	132.18	-90.48	-5,500.41	4,856.59	1,659.56	1,432.12	227.44	7.297	
15,900.00	7,618.00	16,714.22	7,630.00	120.94	133.47	-90.48	-5,600.41	4,856.26	1,659.56	1,428.85	230.72	7.193	
16,000.00	7,618.00	16,814.22	7,630.00	122.53	134.78	-90.48	-5,700.41	4,855.92	1,659.57	1,425.57	233.99	7.092	
16,100.00	7,618.00	16,914.22	7,630.00	124.12	136.10	-90.48	-5,800.41	4,855.58	1,659.57	1,422.29	237.28	6.994	
16,200.00	7,618.00	17,014.22	7,630.00	125.72	137.44	-90.48	-5,900.41	4,855.25	1,659.57	1,419.00	240.57	6.898	
16,300.00	7,618.00	17,114.22	7,630.00	127.32	138.80	-90.48	-6,000.41	4,854.91	1,659.57	1,415.70	243.87	6.805	
16,400.00	7,618.00	17,214.22	7,630.00	128.93	140.17	-90.48	-6,100.41	4,854.57	1,659.57	1,412.40	247.17	6.714	
16,500.00	7,618.00	17,314.22	7,630.00	130.54	141.55	-90.48	-6,200.41	4,854.24	1,659.58	1,409.09	250.49	6.625	
16,600.00	7,618.00	17,414.22	7,630.00	132.15	142.95	-90.48	-6,300.40	4,853.90	1,659.58	1,405.77	253.80	6.539	
16,700.00	7,618.00	17,514.22	7,630.00	133.77	144.36	-90.48	-6,400.40	4,853.56	1,659.58	1,402.45	257.13	6.454	
16,800.00	7,618.00	17,614.22	7,630.00	135.39	145.78	-90.48	-6,500.40	4,853.22	1,659.58	1,399.12	260.46	6.372	
16,900.00	7,618.00	17,714.22	7,630.00	137.01	147.22	-90.48	-6,600.40	4,852.89	1,659.58	1,395.79	263.79	6.291	
17,000.00	7,618.00	17,814.22	7,630.00	138.64	148.66	-90.48	-6,700.40	4,852.55	1,659.59	1,392.46	267.13	6.213	
17,100.00	7,618.00	17,914.22	7,630.00	140.27	150.11	-90.48	-6,800.40	4,852.21	1,659.59	1,389.11	270.48	6.136	
17,200.00	7,618.00	18,014.22	7,630.00	141.91	151.58	-90.48	-6,900.40	4,851.88	1,659.59	1,385.77	273.83	6.061	
17,300.00	7,618.00	18,114.22	7,630.00	143.55	153.05	-90.48	-7,000.40	4,851.54	1,659.59	1,382.41	277.18	5.987	
17,400.00	7,618.00	18,214.22	7,630.00	145.19	154.53	-90.48	-7,100.40	4,851.20	1,659.59	1,379.06	280.54	5.916	
17,500.00	7,618.00	18,314.22	7,630.00	146.83	156.02	-90.48	-7,200.40	4,850.86	1,659.60	1,375.70	283.90	5.846	
17,600.00	7,618.00	18,414.22	7,630.00	148.48	157.52	-90.48	-7,300.40	4,850.53	1,659.60	1,372.33	287.27	5.777	
17,700.00	7,618.00	18,514.22	7,630.00	150.13	159.02	-90.48	-7,400.40	4,850.19	1,659.60	1,368.96	290.64	5.710	
17,800.00	7,618.00	18,614.22	7,630.00	151.78	160.54	-90.48	-7,500.40	4,849.85	1,659.60	1,365.59	294.01	5.645	
17,900.00	7,618.00	18,714.22	7,630.00	153.43	162.06	-90.48	-7,600.40	4,849.52	1,659.61	1,362.22	297.39	5.581	
18,000.00	7,618.00	18,814.22	7,630.00	155.09	163.58	-90.48	-7,700.40	4,849.18	1,659.61	1,358.84	300.77	5.518	
18,100.00	7,618.00	18,914.22	7,630.00	156.75	165.11	-90.48	-7,800.40	4,848.84	1,659.61	1,355.45	304.16	5.456	
18,200.00	7,618.00	19,014.22	7,630.00	158.41	166.65	-90.48	-7,900.40	4,848.51	1,659.61	1,352.07	307.55	5.396	
18,300.00	7,618.00	19,114.22	7,630.00	160.07	168.20	-90.48	-8,000.39	4,848.17	1,659.61	1,348.68	310.94	5.337	
18,400.00	7,618.00	19,214.22	7,630.00	161.74	169.75	-90.48	-8,100.39	4,847.83	1,659.62	1,345.28	314.33	5.280	
18,500.00	7,618.00	19,314.22	7,630.00	163.41	171.30	-90.48	-8,200.39	4,847.49	1,659.62	1,341.89	317.73	5.223	
18,600.00	7,618.00	19,414.22	7,630.00	165.08	172.86	-90.48	-8,300.39	4,847.16	1,659.62	1,338.49	321.13	5.168	
18,700.00	7,618.00	19,514.22	7,630.00	166.75	174.43	-90.48	-8,400.39	4,846.82	1,659.62	1,335.09	324.54	5.114	
18,711.30	7,618.00	19,518.56	7,630.00	166.94	174.50	-90.48	-8,404.74	4,846.81	1,659.64	1,334.46	325.18	5.104	SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	2.00	-2.00	0.00	0.00	90.35	-0.36	60.20	60.20				
100.00	100.00	102.00	98.00	0.13	0.14	90.35	-0.36	60.20	60.20	59.93	0.28	218.103	
200.00	200.00	202.00	198.00	0.49	0.50	90.35	-0.36	60.20	60.20	59.21	0.99	60.628	
300.00	300.00	298.00	298.00	0.85	0.84	90.35	-0.36	60.20	60.20	58.51	1.70	35.505	CC, ES
400.00	400.00	396.09	396.08	1.21	1.19	89.78	0.24	61.70	61.73	59.32	2.40	25.686	
500.00	500.00	493.92	493.78	1.57	1.54	88.20	2.08	66.29	66.46	63.35	3.11	21.378	
600.00	600.00	591.30	590.80	1.93	1.90	86.02	5.14	73.93	74.46	70.65	3.81	19.531	
700.00	700.00	688.01	686.83	2.29	2.27	83.65	9.40	84.55	85.80	81.29	4.51	19.014	
800.00	800.00	783.84	781.55	2.64	2.66	81.41	14.81	98.03	100.50	95.30	5.21	19.305	
900.00	900.00	878.59	874.66	3.00	3.07	79.43	21.31	114.25	118.54	112.64	5.89	20.119	
1,000.00	999.98	972.43	966.28	3.36	3.50	20.68	28.88	133.11	138.26	131.70	6.56	21.072	
1,100.00	1,099.84	1,065.68	1,056.60	3.71	3.97	19.72	37.50	154.61	157.99	150.77	7.22	21.882	
1,200.00	1,199.45	1,158.35	1,145.57	4.07	4.47	19.16	47.15	178.66	177.67	169.80	7.87	22.571	
1,300.00	1,298.70	1,250.45	1,233.11	4.44	5.01	18.89	57.79	205.20	197.24	188.71	8.53	23.128	
1,400.00	1,397.47	1,341.99	1,319.17	4.82	5.58	18.81	69.40	234.15	216.69	207.51	9.19	23.591	
1,500.00	1,495.62	1,433.00	1,403.69	5.22	6.21	18.88	81.96	265.45	235.99	226.15	9.85	23.970	
1,600.00	1,593.06	1,523.47	1,486.61	5.65	6.87	19.07	95.42	299.02	255.13	244.62	10.51	24.272	
1,700.00	1,689.64	1,613.42	1,567.89	6.11	7.58	19.34	109.77	334.79	274.10	262.92	11.19	24.503	
1,800.00	1,785.27	1,702.88	1,647.48	6.61	8.34	19.68	124.97	372.69	292.89	281.01	11.87	24.667	
1,900.00	1,879.82	1,791.85	1,725.33	7.15	9.15	20.08	141.00	412.65	311.49	298.91	12.58	24.764	
2,000.00	1,973.17	1,880.34	1,801.40	7.73	10.01	20.52	157.83	454.61	329.89	316.59	13.30	24.796	
2,100.00	2,065.21	1,968.37	1,875.65	8.37	10.92	21.00	175.43	498.49	348.09	334.04	14.06	24.764	
2,200.00	2,155.84	2,055.96	1,948.05	9.07	11.88	21.50	193.77	544.23	366.09	351.25	14.84	24.669	
2,300.00	2,244.94	2,143.11	2,018.56	9.82	12.89	22.04	212.84	591.77	383.89	368.22	15.66	24.511	
2,400.00	2,332.39	2,229.85	2,087.16	10.64	13.95	22.59	232.59	641.03	401.47	384.94	16.53	24.292	
2,500.00	2,418.11	2,316.18	2,153.81	11.53	15.05	23.16	253.02	691.95	418.83	401.39	17.44	24.013	
2,558.91	2,467.74	2,372.49	2,196.62	12.08	15.80	23.57	266.64	725.92	428.67	410.54	18.13	23.650	
2,600.00	2,502.13	2,412.98	2,227.38	12.47	16.34	23.92	276.44	750.35	435.18	416.54	18.64	23.346	
2,700.00	2,585.83	2,511.51	2,302.23	13.45	17.66	24.75	300.29	809.81	451.10	431.17	19.93	22.635	
2,800.00	2,669.53	2,610.03	2,377.09	14.44	19.00	25.51	324.13	869.26	467.11	445.85	21.26	21.971	
2,900.00	2,753.22	2,708.55	2,451.95	15.46	20.34	26.23	347.98	928.72	483.19	460.56	22.63	21.353	
3,000.00	2,836.92	2,807.08	2,526.80	16.48	21.69	26.90	371.83	988.17	499.34	475.31	24.03	20.779	
3,100.00	2,920.62	2,905.60	2,601.66	17.52	23.04	27.53	395.67	1,047.63	515.55	490.09	25.46	20.247	
3,200.00	3,004.32	3,004.13	2,676.51	18.56	24.40	28.12	419.52	1,107.08	531.82	504.90	26.92	19.753	
3,300.00	3,088.01	3,102.65	2,751.37	19.61	25.76	28.67	443.36	1,166.54	548.15	519.74	28.41	19.294	
3,400.00	3,171.71	3,201.17	2,826.22	20.67	27.13	29.19	467.21	1,225.99	564.51	534.60	29.92	18.869	
3,500.00	3,255.41	3,300.30	2,901.08	21.73	28.51	29.69	491.06	1,285.45	580.93	549.48	31.45	18.471	
3,600.00	3,339.10	3,398.22	2,975.94	22.80	29.87	30.15	514.90	1,344.90	597.38	564.39	32.99	18.106	
3,700.00	3,422.80	3,503.26	3,050.79	23.87	31.34	30.59	538.75	1,404.36	613.87	579.26	34.60	17.739	
3,800.00	3,506.50	3,595.27	3,125.65	24.94	32.62	31.01	562.60	1,463.81	630.39	594.25	36.14	17.444	
3,900.00	3,590.20	3,693.79	3,200.50	26.02	34.00	31.41	586.44	1,523.27	646.94	609.21	37.73	17.146	
4,000.00	3,673.89	3,807.69	3,275.36	27.10	35.59	31.79	610.29	1,582.72	663.52	624.07	39.45	16.818	
4,100.00	3,757.59	3,909.16	3,350.21	28.18	37.01	32.14	634.13	1,642.18	680.13	639.04	41.10	16.550	
4,200.00	3,841.29	3,989.36	3,425.07	29.26	38.14	32.49	657.98	1,701.63	696.77	654.18	42.59	16.361	
4,300.00	3,924.99	4,087.89	3,499.93	30.35	39.52	32.81	681.83	1,761.09	713.42	669.19	44.23	16.131	
4,400.00	4,008.68	4,186.41	3,574.78	31.44	40.90	33.12	705.67	1,820.54	730.10	684.22	45.88	15.914	
4,500.00	4,092.38	4,284.93	3,649.64	32.52	42.29	33.42	729.52	1,880.00	746.80	699.26	47.54	15.710	
4,600.00	4,176.08	4,383.46	3,724.49	33.62	43.67	33.70	753.37	1,939.45	763.51	714.31	49.20	15.518	
4,700.00	4,259.77	4,481.98	3,799.35	34.71	45.05	33.98	777.21	1,998.91	780.25	729.37	50.88	15.336	
4,800.00	4,343.47	4,580.51	3,874.20	35.80	46.44	34.24	801.06	2,058.36	797.00	744.44	52.56	15.164	
4,900.00	4,427.17	4,679.03	3,949.06	36.89	47.83	34.49	824.90	2,117.82	813.76	759.52	54.25	15.002	
5,000.00	4,510.87	4,777.55	4,023.92	37.99	49.21	34.73	848.75	2,177.27	830.54	774.60	55.94	14.847	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	4,876.08	4,098.77	39.08	50.60	34.96	872.60	2,236.73	847.34	789.70	57.64	14.701	
5,200.00	4,678.26	4,974.60	4,173.63	40.18	51.99	35.18	896.44	2,296.18	864.14	804.80	59.34	14.562	
5,300.00	4,761.96	5,073.12	4,248.48	41.28	53.38	35.39	920.29	2,355.64	880.96	819.91	61.05	14.430	
5,400.00	4,845.66	5,171.65	4,323.34	42.37	54.76	35.59	944.14	2,415.09	897.79	835.03	62.77	14.304	
5,500.00	4,929.35	5,270.17	4,398.19	43.47	56.15	35.79	967.98	2,474.55	914.63	850.15	64.48	14.184	
5,600.00	5,013.05	5,368.70	4,473.05	44.57	57.54	35.98	991.83	2,534.00	931.48	865.28	66.21	14.069	
5,700.00	5,096.75	5,467.22	4,547.91	45.67	58.93	36.16	1,015.67	2,593.46	948.34	880.41	67.93	13.960	
5,800.00	5,180.45	5,565.74	4,622.76	46.77	60.32	36.34	1,039.52	2,652.91	965.21	895.55	69.66	13.856	
5,900.00	5,264.14	5,664.27	4,697.62	47.87	61.71	36.51	1,063.37	2,712.37	982.09	910.69	71.40	13.756	
6,000.00	5,347.84	5,762.79	4,772.47	48.97	63.10	36.68	1,087.21	2,771.82	998.98	925.84	73.13	13.660	
6,100.00	5,431.54	5,861.31	4,847.33	50.07	64.49	36.84	1,111.06	2,831.28	1,015.87	941.00	74.87	13.568	
6,200.00	5,515.23	5,959.84	4,922.19	51.17	65.88	36.99	1,134.91	2,890.73	1,032.77	956.16	76.61	13.480	
6,300.00	5,598.93	6,058.36	4,997.04	52.27	67.27	37.14	1,158.75	2,950.19	1,049.68	971.32	78.36	13.396	
6,400.00	5,682.63	6,156.89	5,071.90	53.38	68.66	37.29	1,182.60	3,009.64	1,066.59	986.49	80.11	13.314	
6,500.00	5,766.33	6,255.41	5,146.75	54.48	70.06	37.43	1,206.44	3,069.10	1,083.52	1,001.66	81.86	13.237	
6,600.00	5,850.02	6,353.93	5,221.61	55.58	71.45	37.56	1,230.29	3,128.55	1,100.44	1,016.83	83.61	13.162	
6,700.00	5,933.72	6,452.46	5,296.46	56.68	72.84	37.69	1,254.14	3,188.01	1,117.38	1,032.01	85.37	13.089	
6,800.00	6,017.42	6,550.98	5,371.32	57.79	74.23	37.82	1,277.98	3,247.46	1,134.32	1,047.19	87.12	13.020	
6,900.00	6,101.12	6,649.50	5,446.18	58.89	75.62	37.95	1,301.83	3,306.92	1,151.26	1,062.38	88.88	12.953	
7,000.00	6,184.81	6,748.03	5,521.03	59.99	77.01	38.07	1,325.68	3,366.37	1,168.21	1,077.57	90.64	12.888	
7,100.00	6,268.51	6,846.55	5,595.89	61.10	78.41	38.18	1,349.52	3,425.83	1,185.17	1,092.76	92.41	12.826	
7,200.00	6,352.21	6,945.08	5,670.74	62.20	79.80	38.30	1,373.37	3,485.28	1,202.12	1,107.95	94.17	12.766	
7,300.00	6,435.90	7,043.60	5,745.60	63.31	81.19	38.41	1,397.21	3,544.74	1,219.09	1,123.15	95.94	12.707	
7,400.00	6,519.60	7,142.12	5,820.45	64.41	82.58	38.52	1,421.06	3,604.20	1,236.06	1,138.35	97.70	12.651	
7,500.00	6,603.30	7,240.65	5,895.31	65.51	83.98	38.62	1,444.91	3,663.65	1,253.03	1,153.56	99.47	12.597	
7,600.00	6,687.00	7,339.17	5,970.17	66.62	85.37	38.72	1,468.75	3,723.11	1,270.00	1,168.76	101.24	12.544	
7,700.00	6,770.69	7,437.69	6,045.02	67.72	86.76	38.82	1,492.60	3,782.56	1,286.98	1,183.97	103.02	12.493	
7,800.00	6,854.39	7,536.22	6,119.88	68.83	88.15	38.92	1,516.45	3,842.02	1,303.97	1,199.18	104.79	12.444	
7,900.00	6,938.09	7,634.74	6,194.73	69.93	89.55	39.01	1,540.29	3,901.47	1,320.95	1,214.39	106.56	12.396	
7,933.18	6,965.86	7,667.43	6,219.57	70.30	90.01	39.04	1,548.20	3,921.20	1,326.59	1,219.44	107.15	12.380	
7,950.00	6,980.00	7,684.01	6,232.17	70.49	90.24	37.01	1,552.22	3,931.20	1,329.40	1,221.97	107.43	12.374	
8,000.00	7,022.68	7,733.32	6,269.63	71.01	90.94	30.11	1,564.15	3,960.96	1,337.22	1,229.17	108.05	12.375	
8,050.00	7,066.06	7,782.35	6,306.88	71.51	91.63	22.06	1,576.02	3,990.54	1,344.20	1,235.85	108.35	12.406	
8,100.00	7,109.82	7,830.73	6,343.64	71.97	92.32	13.22	1,587.73	4,019.74	1,350.35	1,242.03	108.32	12.467	
8,150.00	7,153.63	7,878.10	6,379.63	72.38	92.99	4.08	1,599.19	4,048.32	1,355.73	1,247.78	107.95	12.559	
8,200.00	7,197.14	7,924.08	6,414.57	72.74	93.64	-4.83	1,610.32	4,076.08	1,360.42	1,253.16	107.26	12.683	
8,250.00	7,240.04	7,968.35	6,448.20	73.05	94.26	-13.10	1,621.04	4,102.79	1,364.57	1,258.31	106.26	12.842	
8,300.00	7,281.99	8,010.55	6,480.26	73.31	94.86	-20.50	1,631.25	4,128.25	1,368.32	1,263.36	104.96	13.037	
8,350.00	7,322.67	8,050.36	6,510.51	73.52	95.42	-26.95	1,640.89	4,152.28	1,371.85	1,268.47	103.38	13.270	
8,400.00	7,361.77	8,087.49	6,538.71	73.68	95.95	-32.50	1,649.87	4,174.68	1,375.36	1,273.79	101.57	13.541	
8,450.00	7,399.01	8,121.64	6,564.67	73.78	96.43	-37.20	1,658.14	4,195.29	1,379.05	1,279.49	99.56	13.852	
8,500.00	7,434.08	8,152.57	6,588.16	73.85	96.87	-41.13	1,665.62	4,213.96	1,383.12	1,285.72	97.41	14.200	
8,550.00	7,466.74	8,180.03	6,609.03	73.87	97.26	-44.36	1,672.27	4,230.53	1,387.76	1,292.59	95.17	14.582	
8,600.00	7,496.72	8,203.81	6,627.10	73.85	97.59	-46.95	1,678.03	4,244.88	1,393.14	1,300.22	92.92	14.993	
8,650.00	7,523.80	8,223.74	6,642.24	73.79	97.87	-48.92	1,682.85	4,256.91	1,399.40	1,308.67	90.73	15.424	
8,700.00	7,547.77	8,239.66	6,654.34	73.70	98.10	-50.31	1,686.70	4,266.52	1,406.65	1,317.97	88.68	15.863	
8,750.00	7,568.45	8,251.46	6,663.30	73.58	98.27	-51.15	1,689.56	4,273.63	1,414.95	1,328.13	86.82	16.297	
8,800.00	7,585.69	8,259.03	6,669.05	73.43	98.37	-51.45	1,691.39	4,278.21	1,424.34	1,339.09	85.24	16.710	
8,850.00	7,599.35	8,262.33	6,671.56	73.26	98.42	-51.25	1,692.19	4,280.20	1,434.77	1,350.80	83.97	17.086	
8,900.00	7,609.33	8,261.33	6,670.80	73.07	98.41	-50.55	1,691.95	4,279.59	1,446.19	1,363.13	83.05	17.413	
8,950.00	7,615.55	8,256.04	6,666.78	72.87	98.33	-49.40	1,690.67	4,276.40	1,458.47	1,375.97	82.49	17.680	
9,000.00	7,617.97	8,246.49	6,659.52	72.65	98.20	-47.82	1,688.36	4,270.64	1,471.45	1,389.17	82.28	17.883	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,006.60	7,618.00	8,244.92	6,658.33	72.62	98.17	-47.58	1,687.98	4,269.69	1,473.21	1,390.93	82.28	17.906	
9,100.00	7,618.00	8,222.12	6,641.01	72.22	97.85	-46.70	1,682.46	4,255.93	1,500.65	1,417.81	82.84	18.116	
9,200.00	7,618.00	8,202.29	6,622.46	71.80	97.57	-45.75	1,676.55	4,241.20	1,535.42	1,450.86	84.56	18.157	
9,300.00	7,618.00	8,173.30	6,603.92	71.41	97.16	-44.80	1,670.64	4,226.47	1,575.40	1,488.29	87.11	18.085	
9,400.00	7,618.00	8,148.90	6,585.37	71.04	96.82	-43.86	1,664.74	4,211.74	1,620.21	1,529.92	90.29	17.944	
9,500.00	7,618.00	8,124.49	6,566.83	70.68	96.47	-42.92	1,658.83	4,197.01	1,669.45	1,575.61	93.84	17.790	
9,600.00	7,618.00	8,100.08	6,548.28	70.35	96.13	-41.99	1,652.92	4,182.28	1,722.75	1,625.20	97.56	17.659	
9,700.00	7,618.00	8,075.67	6,529.74	70.04	95.78	-41.06	1,647.01	4,167.55	1,779.74	1,678.45	101.30	17.569	
9,800.00	7,618.00	8,051.26	6,511.20	69.75	95.44	-40.14	1,641.11	4,152.82	1,840.08	1,735.12	104.96	17.531	
9,900.00	7,618.00	8,026.86	6,492.65	69.47	95.09	-39.22	1,635.20	4,138.10	1,903.45	1,794.98	108.48	17.547	
10,000.00	7,618.00	8,002.45	6,474.11	69.22	94.74	-38.31	1,629.29	4,123.37	1,969.56	1,857.75	111.81	17.615	
10,100.00	7,618.00	11,286.49	7,870.00	68.99	113.22	-97.20	198.41	5,225.78	2,025.35	1,942.30	83.05	24.388	
10,200.00	7,618.00	11,386.49	7,870.00	68.78	113.06	-97.20	98.41	5,225.45	2,025.35	1,941.96	83.39	24.287	
10,300.00	7,618.00	11,486.49	7,870.00	68.59	112.91	-97.20	-1.59	5,225.11	2,025.36	1,941.47	83.88	24.145	
10,400.00	7,618.00	11,586.49	7,870.00	68.42	112.77	-97.20	-101.59	5,224.78	2,025.36	1,940.84	84.52	23.964	
10,500.00	7,618.00	11,686.49	7,870.00	68.28	112.65	-97.20	-201.59	5,224.44	2,025.36	1,940.07	85.29	23.747	
10,600.00	7,618.00	11,786.49	7,870.00	68.16	112.54	-97.20	-301.58	5,224.10	2,025.37	1,939.17	86.20	23.496	
10,700.00	7,618.00	11,886.49	7,870.00	68.06	112.45	-97.20	-401.58	5,223.77	2,025.37	1,938.13	87.24	23.215	
10,800.00	7,618.00	11,986.49	7,870.00	67.99	112.37	-97.20	-501.58	5,223.43	2,025.38	1,936.96	88.41	22.908	
10,900.00	7,618.00	12,086.49	7,870.00	67.95	112.30	-97.20	-601.58	5,223.10	2,025.38	1,935.67	89.71	22.578	
11,000.00	7,618.00	12,186.49	7,870.00	67.95	112.24	-97.20	-701.58	5,222.76	2,025.38	1,934.27	91.12	22.229	
11,100.00	7,618.00	12,286.49	7,870.00	67.97	112.20	-97.20	-801.58	5,222.43	2,025.39	1,932.75	92.64	21.864	
11,200.00	7,618.00	12,386.49	7,870.00	68.04	112.18	-97.20	-901.58	5,222.09	2,025.39	1,931.13	94.26	21.486	
11,300.00	7,618.00	12,486.49	7,870.00	68.15	112.16	-97.20	-1,001.58	5,221.76	2,025.39	1,929.40	95.99	21.100	
11,400.00	7,618.00	12,586.49	7,870.00	68.30	112.17	-97.20	-1,101.58	5,221.42	2,025.40	1,927.58	97.82	20.706	
11,500.00	7,618.00	12,686.49	7,870.00	68.50	112.19	-97.20	-1,201.58	5,221.09	2,025.40	1,925.67	99.73	20.309	
11,600.00	7,618.00	12,786.49	7,870.00	68.75	112.22	-97.20	-1,301.58	5,220.75	2,025.41	1,923.68	101.73	19.910	
11,700.00	7,618.00	12,886.49	7,870.00	69.06	112.28	-97.20	-1,401.58	5,220.42	2,025.41	1,921.60	103.81	19.512	
11,800.00	7,618.00	12,986.49	7,870.00	69.44	112.35	-97.20	-1,501.58	5,220.08	2,025.41	1,919.45	105.96	19.115	
11,900.00	7,618.00	13,086.49	7,870.00	69.88	112.43	-97.20	-1,601.58	5,219.74	2,025.42	1,917.23	108.18	18.722	
12,000.00	7,618.00	13,186.49	7,870.00	70.39	112.54	-97.20	-1,701.58	5,219.41	2,025.42	1,914.94	110.48	18.334	
12,100.00	7,618.00	13,286.49	7,870.00	70.97	112.66	-97.20	-1,801.58	5,219.07	2,025.42	1,912.59	112.83	17.951	
12,200.00	7,618.00	13,386.49	7,870.00	71.63	112.81	-97.20	-1,901.58	5,218.74	2,025.43	1,910.19	115.24	17.575	
12,300.00	7,618.00	13,486.49	7,870.00	72.35	112.97	-97.20	-2,001.58	5,218.40	2,025.43	1,907.72	117.71	17.207	
12,400.00	7,618.00	13,586.49	7,870.00	73.15	113.16	-97.20	-2,101.57	5,218.07	2,025.43	1,905.21	120.23	16.846	
12,500.00	7,618.00	13,686.49	7,870.00	74.01	113.37	-97.20	-2,201.57	5,217.73	2,025.44	1,902.64	122.80	16.494	
12,600.00	7,618.00	13,786.49	7,870.00	74.93	113.60	-97.20	-2,301.57	5,217.40	2,025.44	1,900.03	125.41	16.150	
12,700.00	7,618.00	13,886.49	7,870.00	75.91	113.86	-97.20	-2,401.57	5,217.06	2,025.45	1,897.38	128.07	15.815	
12,800.00	7,618.00	13,986.49	7,870.00	76.95	114.14	-97.20	-2,501.57	5,216.73	2,025.45	1,894.68	130.77	15.489	
12,900.00	7,618.00	14,086.49	7,870.00	78.04	114.44	-97.20	-2,601.57	5,216.39	2,025.45	1,891.95	133.50	15.172	
13,000.00	7,618.00	14,186.49	7,870.00	79.16	114.77	-97.20	-2,701.57	5,216.05	2,025.46	1,889.19	136.27	14.864	
13,100.00	7,618.00	14,286.49	7,870.00	80.33	115.13	-97.20	-2,801.57	5,215.72	2,025.46	1,886.39	139.07	14.564	
13,200.00	7,618.00	14,386.49	7,870.00	81.54	115.52	-97.20	-2,901.57	5,215.38	2,025.46	1,883.56	141.91	14.273	
13,300.00	7,618.00	14,486.49	7,870.00	82.78	115.94	-97.20	-3,001.57	5,215.05	2,025.47	1,880.70	144.77	13.991	
13,400.00	7,618.00	14,586.49	7,870.00	84.05	116.38	-97.20	-3,101.57	5,214.71	2,025.47	1,877.81	147.67	13.717	
13,500.00	7,618.00	14,686.49	7,870.00	85.35	116.86	-97.20	-3,201.57	5,214.38	2,025.48	1,874.89	150.58	13.451	
13,600.00	7,618.00	14,786.49	7,870.00	86.67	117.37	-97.20	-3,301.57	5,214.04	2,025.48	1,871.95	153.53	13.193	
13,700.00	7,618.00	14,886.49	7,870.00	88.02	117.90	-97.20	-3,401.57	5,213.71	2,025.48	1,868.99	156.49	12.943	
13,800.00	7,618.00	14,986.49	7,870.00	89.38	118.48	-97.20	-3,501.57	5,213.37	2,025.49	1,866.00	159.48	12.700	
13,900.00	7,618.00	15,086.49	7,870.00	90.77	119.08	-97.20	-3,601.57	5,213.04	2,025.49	1,863.00	162.49	12.465	
14,000.00	7,618.00	15,186.49	7,870.00	92.17	119.72	-97.20	-3,701.57	5,212.70	2,025.49	1,859.97	165.52	12.237	
14,100.00	7,618.00	15,286.49	7,870.00	93.59	120.39	-97.20	-3,801.57	5,212.37	2,025.50	1,856.93	168.57	12.016	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,618.00	15,386.49	7,870.00	95.02	121.09	-97.20	-3,901.56	5,212.03	2,025.50	1,853.86	171.64	11.801	
14,300.00	7,618.00	15,486.49	7,870.00	96.47	121.83	-97.20	-4,001.56	5,211.69	2,025.51	1,850.79	174.72	11.593	
14,400.00	7,618.00	15,586.49	7,870.00	97.93	122.60	-97.20	-4,101.56	5,211.36	2,025.51	1,847.69	177.82	11.391	
14,500.00	7,618.00	15,686.49	7,870.00	99.41	123.41	-97.20	-4,201.56	5,211.02	2,025.51	1,844.58	180.93	11.195	
14,600.00	7,618.00	15,786.49	7,870.00	100.89	124.24	-97.20	-4,301.56	5,210.69	2,025.52	1,841.46	184.06	11.005	
14,700.00	7,618.00	15,886.49	7,870.00	102.38	125.11	-97.20	-4,401.56	5,210.35	2,025.52	1,838.32	187.20	10.820	
14,800.00	7,618.00	15,986.49	7,870.00	103.89	126.01	-97.20	-4,501.56	5,210.02	2,025.52	1,835.17	190.36	10.641	
14,900.00	7,618.00	16,086.49	7,870.00	105.40	126.95	-97.20	-4,601.56	5,209.68	2,025.53	1,832.00	193.52	10.467	
15,000.00	7,618.00	16,186.49	7,870.00	106.92	127.91	-97.20	-4,701.56	5,209.35	2,025.53	1,828.83	196.70	10.297	
15,100.00	7,618.00	16,286.49	7,870.00	108.45	128.90	-97.20	-4,801.56	5,209.01	2,025.54	1,825.64	199.89	10.133	
15,200.00	7,618.00	16,386.49	7,870.00	109.99	129.92	-97.20	-4,901.56	5,208.68	2,025.54	1,822.45	203.09	9.974	
15,300.00	7,618.00	16,486.49	7,870.00	111.54	130.97	-97.20	-5,001.56	5,208.34	2,025.54	1,819.24	206.30	9.818	
15,400.00	7,618.00	16,586.49	7,870.00	113.09	132.04	-97.20	-5,101.56	5,208.00	2,025.55	1,816.02	209.52	9.667	
15,500.00	7,618.00	16,686.49	7,870.00	114.65	133.14	-97.20	-5,201.56	5,207.67	2,025.55	1,812.80	212.75	9.521	
15,600.00	7,618.00	16,786.49	7,870.00	116.21	134.27	-97.20	-5,301.56	5,207.33	2,025.55	1,809.56	215.99	9.378	
15,700.00	7,618.00	16,886.49	7,870.00	117.78	135.41	-97.20	-5,401.56	5,207.00	2,025.56	1,806.32	219.24	9.239	
15,800.00	7,618.00	16,986.49	7,870.00	119.36	136.59	-97.20	-5,501.56	5,206.66	2,025.56	1,803.07	222.49	9.104	
15,900.00	7,618.00	17,086.49	7,870.00	120.94	137.78	-97.20	-5,601.56	5,206.33	2,025.56	1,799.81	225.75	8.972	
16,000.00	7,618.00	17,186.49	7,870.00	122.53	138.99	-97.20	-5,701.55	5,205.99	2,025.57	1,796.55	229.02	8.844	
16,100.00	7,618.00	17,286.49	7,870.00	124.12	140.23	-97.20	-5,801.55	5,205.66	2,025.57	1,793.27	232.30	8.720	
16,200.00	7,618.00	17,386.49	7,870.00	125.72	141.48	-97.20	-5,901.55	5,205.32	2,025.58	1,789.99	235.58	8.598	
16,300.00	7,618.00	17,486.49	7,870.00	127.32	142.75	-97.20	-6,001.55	5,204.99	2,025.58	1,786.71	238.87	8.480	
16,400.00	7,618.00	17,586.49	7,870.00	128.93	144.04	-97.20	-6,101.55	5,204.65	2,025.58	1,783.41	242.17	8.364	
16,500.00	7,618.00	17,686.49	7,870.00	130.54	145.34	-97.20	-6,201.55	5,204.32	2,025.59	1,780.12	245.47	8.252	
16,600.00	7,618.00	17,786.49	7,870.00	132.15	146.67	-97.20	-6,301.55	5,203.98	2,025.59	1,776.81	248.78	8.142	
16,700.00	7,618.00	17,886.49	7,870.00	133.77	148.00	-97.20	-6,401.55	5,203.64	2,025.59	1,773.50	252.09	8.035	
16,800.00	7,618.00	17,986.49	7,870.00	135.39	149.35	-97.20	-6,501.55	5,203.31	2,025.60	1,770.19	255.41	7.931	
16,900.00	7,618.00	18,086.49	7,870.00	137.01	150.72	-97.20	-6,601.55	5,202.97	2,025.60	1,766.87	258.74	7.829	
17,000.00	7,618.00	18,186.49	7,870.00	138.64	152.09	-97.20	-6,701.55	5,202.64	2,025.61	1,763.54	262.06	7.729	
17,100.00	7,618.00	18,286.49	7,870.00	140.27	153.48	-97.20	-6,801.55	5,202.30	2,025.61	1,760.21	265.40	7.632	
17,200.00	7,618.00	18,386.49	7,870.00	141.91	154.88	-97.20	-6,901.55	5,201.97	2,025.61	1,756.88	268.74	7.538	
17,300.00	7,618.00	18,486.49	7,870.00	143.55	156.30	-97.20	-7,001.55	5,201.63	2,025.62	1,753.54	272.08	7.445	
17,400.00	7,618.00	18,586.49	7,870.00	145.19	157.72	-97.20	-7,101.55	5,201.30	2,025.62	1,750.20	275.42	7.355	
17,500.00	7,618.00	18,686.49	7,870.00	146.83	159.15	-97.20	-7,201.55	5,200.96	2,025.62	1,746.85	278.78	7.266	
17,600.00	7,618.00	18,786.49	7,870.00	148.48	160.60	-97.20	-7,301.55	5,200.63	2,025.63	1,743.50	282.13	7.180	
17,700.00	7,618.00	18,886.49	7,870.00	150.13	162.05	-97.20	-7,401.55	5,200.29	2,025.63	1,740.14	285.49	7.095	
17,800.00	7,618.00	18,986.49	7,870.00	151.78	163.51	-97.20	-7,501.54	5,199.96	2,025.64	1,736.78	288.85	7.013	
17,900.00	7,618.00	19,086.49	7,870.00	153.43	164.98	-97.20	-7,601.54	5,199.62	2,025.64	1,733.42	292.22	6.932	
18,000.00	7,618.00	19,186.49	7,870.00	155.09	166.46	-97.20	-7,701.54	5,199.28	2,025.64	1,730.06	295.58	6.853	
18,100.00	7,618.00	19,286.49	7,870.00	156.75	167.95	-97.20	-7,801.54	5,198.95	2,025.65	1,726.69	298.96	6.776	
18,200.00	7,618.00	19,386.49	7,870.00	158.41	169.44	-97.20	-7,901.54	5,198.61	2,025.65	1,723.32	302.33	6.700	
18,300.00	7,618.00	19,486.49	7,870.00	160.07	170.95	-97.20	-8,001.54	5,198.28	2,025.65	1,719.94	305.71	6.626	
18,400.00	7,618.00	19,586.49	7,870.00	161.74	172.45	-97.20	-8,101.54	5,197.94	2,025.66	1,716.57	309.09	6.554	
18,500.00	7,618.00	19,686.49	7,870.00	163.41	173.97	-97.20	-8,201.54	5,197.61	2,025.66	1,713.18	312.48	6.483	
18,600.00	7,618.00	19,786.49	7,870.00	165.08	175.49	-97.20	-8,301.54	5,197.27	2,025.66	1,709.80	315.86	6.413	
18,700.00	7,618.00	19,886.49	7,870.00	166.75	177.02	-97.20	-8,401.54	5,196.94	2,025.67	1,706.42	319.25	6.345	
18,711.30	7,618.00	19,897.79	7,870.00	166.94	177.19	-97.20	-8,412.84	5,196.90	2,025.67	1,706.03	319.64	6.337	SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	2.00	-2.00	0.00	0.00	90.30	-0.36	70.00	70.00				
100.00	100.00	102.00	98.00	0.13	0.14	90.30	-0.36	70.00	70.00	69.73	0.28	253.607	
200.00	200.00	198.00	198.00	0.49	0.49	90.30	-0.36	70.00	70.00	69.02	0.98	71.530	CC, ES
300.00	300.00	295.78	295.76	0.85	0.83	89.84	0.20	71.50	71.53	69.85	1.69	42.400	
400.00	400.00	393.29	393.14	1.21	1.19	88.54	1.94	76.10	76.28	73.88	2.40	31.843	
500.00	500.00	490.36	489.86	1.57	1.54	86.70	4.83	83.75	84.29	81.18	3.10	27.165	
600.00	600.00	586.76	585.58	1.93	1.92	84.64	8.85	94.38	95.61	91.80	3.81	25.114	
700.00	700.00	682.28	680.01	2.29	2.31	82.63	13.96	107.88	110.26	105.76	4.51	24.472	
800.00	800.00	776.74	772.85	2.64	2.73	80.80	20.10	124.12	128.23	123.03	5.20	24.673	
900.00	900.00	869.95	863.86	3.00	3.17	79.22	27.21	142.94	149.46	143.58	5.88	25.417	
1,000.00	999.98	962.13	953.18	3.36	3.64	20.72	35.28	164.27	172.31	165.76	6.55	26.313	
1,100.00	1,099.84	1,053.66	1,041.09	3.71	4.14	19.91	44.28	188.09	195.11	187.92	7.19	27.128	
1,200.00	1,199.45	1,144.56	1,127.53	4.07	4.68	19.43	54.21	214.34	217.80	209.95	7.85	27.740	
1,300.00	1,298.70	1,234.82	1,212.47	4.44	5.26	19.19	65.01	242.93	240.35	231.84	8.51	28.258	
1,400.00	1,397.47	1,324.48	1,295.83	4.82	5.88	19.12	76.68	273.79	262.71	253.55	9.16	28.678	
1,500.00	1,495.62	1,413.55	1,377.58	5.22	6.54	19.19	89.18	306.85	284.88	275.06	9.82	29.011	
1,600.00	1,593.06	1,502.04	1,457.68	5.65	7.24	19.35	102.48	342.04	306.83	296.35	10.48	29.265	
1,700.00	1,689.64	1,589.97	1,536.08	6.11	8.00	19.59	116.56	379.28	328.56	317.40	11.16	29.441	
1,800.00	1,785.27	1,677.36	1,612.75	6.61	8.80	19.89	131.39	418.50	350.06	338.21	11.85	29.546	
1,900.00	1,879.82	1,764.22	1,687.65	7.15	9.65	20.24	146.94	459.63	371.30	358.75	12.55	29.581	
2,000.00	1,973.17	1,850.57	1,760.75	7.73	10.54	20.63	163.19	502.60	392.30	379.02	13.28	29.548	
2,100.00	2,065.21	1,936.42	1,832.04	8.37	11.48	21.06	180.11	547.36	413.04	399.01	14.03	29.448	
2,200.00	2,155.84	2,021.80	1,901.47	9.07	12.47	21.51	197.67	593.82	433.52	418.71	14.81	29.280	
2,300.00	2,244.94	2,106.71	1,969.02	9.82	13.50	21.99	215.86	641.93	453.72	438.10	15.62	29.045	
2,400.00	2,332.39	2,191.17	2,034.68	10.64	14.58	22.48	234.65	691.63	473.66	457.18	16.48	28.741	
2,500.00	2,418.11	2,275.20	2,098.42	11.53	15.71	23.00	254.01	742.84	493.32	475.93	17.39	28.370	
2,558.91	2,467.74	2,324.50	2,135.06	12.08	16.40	23.31	265.68	773.70	504.77	486.83	17.95	28.125	
2,600.00	2,502.13	2,358.78	2,160.19	12.47	16.89	23.58	273.92	795.50	512.97	494.62	18.35	27.958	
2,700.00	2,585.83	2,450.00	2,226.09	13.45	18.21	24.23	296.23	854.50	534.46	514.96	19.50	27.405	
2,800.00	2,669.53	2,547.41	2,296.29	14.44	19.65	24.86	320.11	917.67	556.27	535.45	20.82	26.723	
2,900.00	2,753.22	2,644.83	2,366.49	15.46	21.09	25.44	343.99	980.84	578.14	555.98	22.16	26.087	
3,000.00	2,836.92	2,742.24	2,436.70	16.48	22.54	25.99	367.87	1,044.01	600.07	576.53	23.54	25.493	
3,100.00	2,920.62	2,839.66	2,506.90	17.52	24.00	26.49	391.76	1,107.19	622.04	597.10	24.94	24.941	
3,200.00	3,004.32	2,937.07	2,577.11	18.56	25.47	26.96	415.64	1,170.36	644.05	617.69	26.37	24.428	
3,300.00	3,088.01	3,034.49	2,647.31	19.61	26.94	27.40	439.52	1,233.53	666.11	638.30	27.81	23.951	
3,400.00	3,171.71	3,131.90	2,717.52	20.67	28.41	27.81	463.40	1,296.70	688.19	658.92	29.28	23.508	
3,500.00	3,255.41	3,229.32	2,787.72	21.73	29.88	28.20	487.29	1,359.87	710.31	679.56	30.76	23.095	
3,600.00	3,339.10	3,326.73	2,857.92	22.80	31.36	28.56	511.17	1,423.04	732.46	700.21	32.25	22.710	
3,700.00	3,422.80	3,424.15	2,928.13	23.87	32.84	28.90	535.05	1,486.21	754.64	720.88	33.76	22.351	
3,800.00	3,506.50	3,521.56	2,998.33	24.94	34.33	29.22	558.94	1,549.38	776.84	741.55	35.29	22.016	
3,900.00	3,590.20	3,618.98	3,068.54	26.02	35.81	29.52	582.82	1,612.55	799.06	762.24	36.82	21.702	
4,000.00	3,673.89	3,716.39	3,138.74	27.10	37.30	29.81	606.70	1,675.73	821.30	782.94	38.36	21.408	
4,100.00	3,757.59	3,813.81	3,208.95	28.18	38.79	30.08	630.58	1,738.90	843.56	803.64	39.92	21.132	
4,200.00	3,841.29	3,911.22	3,279.15	29.26	40.27	30.34	654.47	1,802.07	865.84	824.36	41.48	20.874	
4,300.00	3,924.99	4,008.63	3,349.35	30.35	41.76	30.59	678.35	1,865.24	888.13	845.08	43.05	20.630	
4,400.00	4,008.68	4,106.05	3,419.56	31.44	43.26	30.82	702.23	1,928.41	910.44	865.81	44.63	20.401	
4,500.00	4,092.38	4,203.46	3,489.76	32.52	44.75	31.04	726.11	1,991.58	932.76	886.55	46.21	20.184	
4,600.00	4,176.08	4,300.88	3,559.97	33.62	46.24	31.25	750.00	2,054.75	955.09	907.29	47.80	19.980	
4,700.00	4,259.77	4,401.71	3,630.17	34.71	47.79	31.46	773.88	2,117.92	977.44	928.01	49.43	19.776	
4,800.00	4,343.47	4,495.71	3,700.38	35.80	49.23	31.65	797.76	2,181.10	999.80	948.80	51.00	19.604	
4,900.00	4,427.17	4,606.88	3,770.58	36.89	50.93	31.83	821.64	2,244.27	1,022.16	969.45	52.72	19.390	
5,000.00	4,510.87	4,709.46	3,840.78	37.99	52.51	32.01	845.53	2,307.44	1,044.54	990.17	54.37	19.212	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	4,787.95	3,910.99	39.08	53.71	32.18	869.41	2,370.61	1,066.93	1,011.09	55.83	19.109	
5,200.00	4,678.26	4,885.37	3,981.19	40.18	55.21	32.34	893.29	2,433.78	1,089.32	1,031.87	57.45	18.960	
5,300.00	4,761.96	4,982.78	4,051.40	41.28	56.71	32.50	917.17	2,496.95	1,111.72	1,052.65	59.08	18.818	
5,400.00	4,845.66	5,080.20	4,121.60	42.37	58.20	32.65	941.06	2,560.12	1,134.13	1,073.43	60.70	18.683	
5,500.00	4,929.35	5,177.61	4,191.81	43.47	59.70	32.79	964.94	2,623.29	1,156.55	1,094.22	62.33	18.554	
5,600.00	5,013.05	5,275.03	4,262.01	44.57	61.20	32.93	988.82	2,686.46	1,178.98	1,115.01	63.97	18.431	
5,700.00	5,096.75	5,372.44	4,332.21	45.67	62.70	33.06	1,012.71	2,749.64	1,201.41	1,135.80	65.60	18.313	
5,800.00	5,180.45	5,469.85	4,402.42	46.77	64.20	33.19	1,036.59	2,812.81	1,223.84	1,156.60	67.24	18.200	
5,900.00	5,264.14	5,567.27	4,472.62	47.87	65.69	33.31	1,060.47	2,875.98	1,246.28	1,177.40	68.88	18.092	
6,000.00	5,347.84	5,664.68	4,542.83	48.97	67.19	33.43	1,084.35	2,939.15	1,268.73	1,198.20	70.53	17.989	
6,100.00	5,431.54	5,762.10	4,613.03	50.07	68.69	33.55	1,108.24	3,002.32	1,291.18	1,219.01	72.18	17.890	
6,200.00	5,515.23	5,859.51	4,683.24	51.17	70.19	33.66	1,132.12	3,065.49	1,313.64	1,239.82	73.82	17.794	
6,300.00	5,598.93	5,956.93	4,753.44	52.27	71.69	33.77	1,156.00	3,128.66	1,336.10	1,260.63	75.47	17.703	
6,400.00	5,682.63	6,054.34	4,823.64	53.38	73.19	33.87	1,179.88	3,191.83	1,358.57	1,281.44	77.13	17.615	
6,500.00	5,766.33	6,151.76	4,893.85	54.48	74.69	33.97	1,203.77	3,255.00	1,381.04	1,302.25	78.78	17.530	
6,600.00	5,850.02	6,249.17	4,964.05	55.58	76.19	34.07	1,227.65	3,318.18	1,403.51	1,323.07	80.44	17.448	
6,700.00	5,933.72	6,346.59	5,034.26	56.68	77.69	34.16	1,251.53	3,381.35	1,425.99	1,343.89	82.10	17.370	
6,800.00	6,017.42	6,444.00	5,104.46	57.79	79.19	34.26	1,275.41	3,444.52	1,448.47	1,364.71	83.75	17.294	
6,900.00	6,101.12	6,541.42	5,174.67	58.89	80.69	34.34	1,299.30	3,507.69	1,470.95	1,385.54	85.42	17.221	
7,000.00	6,184.81	6,638.83	5,244.87	59.99	82.19	34.43	1,323.18	3,570.86	1,493.44	1,406.36	87.08	17.151	
7,100.00	6,268.51	6,736.24	5,315.07	61.10	83.69	34.51	1,347.06	3,634.03	1,515.93	1,427.19	88.74	17.082	
7,200.00	6,352.21	6,833.66	5,385.28	62.20	85.20	34.59	1,370.95	3,697.20	1,538.42	1,448.02	90.41	17.017	
7,300.00	6,435.90	6,931.07	5,455.48	63.31	86.70	34.67	1,394.83	3,760.37	1,560.92	1,468.85	92.07	16.953	
7,400.00	6,519.60	7,028.49	5,525.69	64.41	88.20	34.75	1,418.71	3,823.55	1,583.42	1,489.68	93.74	16.891	
7,500.00	6,603.30	7,125.90	5,595.89	65.51	89.70	34.82	1,442.59	3,886.72	1,605.92	1,510.51	95.41	16.832	
7,600.00	6,687.00	7,223.32	5,666.10	66.62	91.20	34.90	1,466.48	3,949.89	1,628.43	1,531.35	97.08	16.774	
7,700.00	6,770.69	7,320.73	5,736.30	67.72	92.70	34.97	1,490.36	4,013.06	1,650.93	1,552.18	98.75	16.718	
7,800.00	6,854.39	7,418.15	5,806.50	68.83	94.20	35.03	1,514.24	4,076.23	1,673.44	1,573.02	100.42	16.664	
7,900.00	6,938.09	7,515.56	5,876.71	69.93	95.71	35.10	1,538.12	4,139.40	1,695.95	1,593.86	102.10	16.611	
7,933.18	6,965.86	7,547.89	5,900.00	70.30	96.20	35.12	1,546.05	4,160.36	1,703.42	1,600.77	102.65	16.594	
7,950.00	6,980.00	7,564.28	5,911.82	70.49	96.46	33.19	1,550.07	4,170.99	1,707.18	1,604.26	102.92	16.588	
8,000.00	7,022.68	7,613.00	5,946.93	71.01	97.21	26.63	1,562.01	4,202.59	1,718.00	1,614.47	103.53	16.594	
8,050.00	7,066.06	7,661.43	5,981.83	71.51	97.95	18.98	1,573.89	4,233.99	1,728.24	1,624.37	103.87	16.638	
8,100.00	7,109.82	7,709.19	6,016.25	71.97	98.69	10.60	1,585.59	4,264.97	1,737.88	1,633.94	103.94	16.721	
8,150.00	7,153.63	7,755.92	6,049.93	72.38	99.41	1.96	1,597.05	4,295.27	1,746.92	1,643.19	103.73	16.841	
8,200.00	7,197.14	7,801.26	6,082.61	72.74	100.11	-6.41	1,608.17	4,324.67	1,755.40	1,652.15	103.26	17.000	
8,250.00	7,240.04	7,844.87	6,114.03	73.05	100.78	-14.11	1,618.86	4,352.95	1,763.39	1,660.86	102.53	17.199	
8,300.00	7,281.99	7,886.42	6,143.98	73.31	101.42	-20.91	1,629.04	4,379.89	1,770.97	1,669.40	101.57	17.437	
8,350.00	7,322.67	7,925.58	6,172.20	73.52	102.03	-26.77	1,638.65	4,405.29	1,778.24	1,677.86	100.39	17.714	
8,400.00	7,361.77	7,962.07	6,198.50	73.68	102.59	-31.72	1,647.59	4,428.95	1,785.33	1,686.30	99.02	18.029	
8,450.00	7,399.01	8,004.40	6,222.66	73.78	103.24	-35.85	1,655.81	4,450.70	1,792.34	1,694.76	97.58	18.369	
8,500.00	7,434.08	8,025.93	6,244.52	73.85	103.57	-39.25	1,663.25	4,470.36	1,799.40	1,703.52	95.88	18.767	
8,550.00	7,466.74	8,052.81	6,263.89	73.87	103.99	-41.99	1,669.84	4,487.79	1,806.62	1,712.44	94.18	19.182	
8,600.00	7,496.72	8,076.04	6,280.63	73.85	104.35	-44.16	1,675.53	4,502.86	1,814.11	1,721.64	92.47	19.619	
8,650.00	7,523.80	8,104.55	6,294.62	73.79	104.79	-45.79	1,680.29	4,515.44	1,821.94	1,731.10	90.84	20.058	
8,700.00	7,547.77	8,110.89	6,305.75	73.70	104.88	-46.94	1,684.08	4,525.46	1,830.18	1,741.02	89.16	20.528	
8,750.00	7,568.45	8,122.24	6,313.93	73.58	105.06	-47.62	1,686.86	4,532.82	1,838.85	1,751.19	87.66	20.977	
8,800.00	7,585.69	8,129.42	6,319.10	73.43	105.17	-47.88	1,688.62	4,537.47	1,847.97	1,761.64	86.33	21.406	
8,850.00	7,599.35	8,132.36	6,321.22	73.26	105.22	-47.74	1,689.34	4,539.38	1,857.51	1,772.31	85.20	21.803	
8,900.00	7,609.33	8,131.06	6,320.28	73.07	105.20	-47.21	1,689.02	4,538.54	1,867.40	1,783.12	84.28	22.156	
8,950.00	7,615.55	8,125.51	6,316.29	72.87	105.11	-46.34	1,687.66	4,534.94	1,877.56	1,793.96	83.60	22.458	
9,000.00	7,617.97	8,115.77	6,309.26	72.65	104.96	-45.14	1,685.27	4,528.62	1,887.88	1,804.71	83.16	22.701	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,006.60	7,618.00	8,114.17	6,308.11	72.62	104.93	-44.96	1,684.88	4,527.58	1,889.24	1,806.12	83.12	22.729	
9,100.00	7,618.00	8,108.93	6,291.46	72.22	104.85	-44.27	1,679.22	4,512.60	1,910.61	1,827.51	83.09	22.994	
9,200.00	7,618.00	8,066.33	6,273.63	71.80	104.20	-43.53	1,673.15	4,496.56	1,937.91	1,854.21	83.70	23.152	
9,300.00	7,618.00	8,041.60	6,255.81	71.41	103.82	-42.79	1,667.09	4,480.52	1,969.61	1,884.41	85.19	23.119	
9,400.00	7,618.00	8,016.86	6,237.98	71.04	103.43	-42.05	1,661.02	4,464.48	2,005.49	1,918.18	87.31	22.969	
9,500.00	7,618.00	7,992.12	6,220.15	70.68	103.05	-41.32	1,654.96	4,448.44	2,045.33	1,955.43	89.91	22.749	
9,600.00	7,618.00	7,967.39	6,202.33	70.35	102.67	-40.59	1,648.89	4,432.40	2,088.92	1,996.08	92.84	22.500	
9,700.00	7,618.00	7,942.65	6,184.50	70.04	102.29	-39.86	1,642.83	4,416.36	2,136.01	2,040.03	95.98	22.255	
9,800.00	7,618.00	7,917.91	6,166.67	69.75	101.91	-39.13	1,636.77	4,400.32	2,186.38	2,087.15	99.23	22.034	
9,900.00	7,618.00	7,906.82	6,148.85	69.47	101.74	-38.40	1,630.70	4,384.28	2,239.82	2,137.21	102.61	21.829	
10,000.00	7,618.00	7,868.44	6,131.02	69.22	101.15	-37.68	1,624.64	4,368.23	2,296.10	2,190.36	105.74	21.715	
10,100.00	7,618.00	7,843.70	6,113.19	68.99	100.76	-36.96	1,618.57	4,352.19	2,355.02	2,246.13	108.89	21.627	
10,200.00	7,618.00	11,305.37	7,480.00	68.78	122.44	-86.70	97.21	5,575.39	2,363.22	2,270.60	92.62	25.514	
10,300.00	7,618.00	11,405.37	7,480.00	68.59	122.30	-86.70	-2.79	5,575.05	2,363.22	2,270.01	93.22	25.352	
10,400.00	7,618.00	11,505.37	7,480.00	68.42	122.17	-86.70	-102.79	5,574.71	2,363.23	2,269.29	93.94	25.157	
10,500.00	7,618.00	11,605.37	7,480.00	68.28	122.04	-86.70	-202.79	5,574.38	2,363.23	2,268.44	94.79	24.932	
10,600.00	7,618.00	11,705.37	7,480.00	68.16	121.93	-86.70	-302.79	5,574.04	2,363.23	2,267.47	95.76	24.679	
10,700.00	7,618.00	11,805.37	7,480.00	68.06	121.83	-86.70	-402.79	5,573.70	2,363.23	2,266.38	96.85	24.401	
10,800.00	7,618.00	11,905.37	7,480.00	67.99	121.75	-86.70	-502.79	5,573.37	2,363.24	2,265.18	98.06	24.100	
10,900.00	7,618.00	12,005.37	7,480.00	67.95	121.67	-86.70	-602.79	5,573.03	2,363.24	2,263.86	99.38	23.781	
11,000.00	7,618.00	12,105.37	7,480.00	67.95	121.61	-86.70	-702.78	5,572.69	2,363.24	2,262.44	100.80	23.445	
11,100.00	7,618.00	12,205.37	7,480.00	67.97	121.56	-86.70	-802.78	5,572.36	2,363.24	2,260.92	102.33	23.095	
11,200.00	7,618.00	12,305.37	7,480.00	68.04	121.52	-86.70	-902.78	5,572.02	2,363.25	2,259.30	103.95	22.734	
11,300.00	7,618.00	12,394.63	7,480.00	68.15	121.50	-86.70	-1,002.78	5,571.68	2,363.25	2,257.67	105.58	22.384	
11,400.00	7,618.00	12,505.37	7,480.00	68.30	121.48	-86.70	-1,102.78	5,571.35	2,363.25	2,255.78	107.47	21.990	
11,500.00	7,618.00	12,605.37	7,480.00	68.50	121.48	-86.70	-1,202.78	5,571.01	2,363.25	2,253.89	109.36	21.610	
11,600.00	7,618.00	12,705.37	7,480.00	68.75	121.50	-86.70	-1,302.78	5,570.67	2,363.26	2,251.93	111.33	21.228	
11,700.00	7,618.00	12,805.37	7,480.00	69.06	121.53	-86.70	-1,402.78	5,570.34	2,363.26	2,249.89	113.37	20.845	
11,800.00	7,618.00	12,905.37	7,480.00	69.44	121.57	-86.70	-1,502.78	5,570.00	2,363.26	2,247.77	115.49	20.463	
11,900.00	7,618.00	13,005.37	7,480.00	69.88	121.63	-86.70	-1,602.78	5,569.66	2,363.26	2,245.59	117.67	20.083	
12,000.00	7,618.00	13,105.37	7,480.00	70.39	121.71	-86.70	-1,702.78	5,569.33	2,363.27	2,243.35	119.92	19.707	
12,100.00	7,618.00	13,194.63	7,480.00	70.97	121.78	-86.70	-1,802.78	5,568.99	2,363.27	2,241.16	122.11	19.354	
12,200.00	7,618.00	13,305.37	7,480.00	71.63	121.90	-86.70	-1,902.78	5,568.65	2,363.27	2,238.68	124.59	18.968	
12,300.00	7,618.00	13,405.37	7,480.00	72.35	122.03	-86.70	-2,002.78	5,568.32	2,363.27	2,236.26	127.01	18.607	
12,400.00	7,618.00	13,505.37	7,480.00	73.15	122.17	-86.70	-2,102.78	5,567.98	2,363.28	2,233.80	129.48	18.252	
12,500.00	7,618.00	13,605.37	7,480.00	74.01	122.33	-86.70	-2,202.78	5,567.64	2,363.28	2,231.28	132.00	17.904	
12,600.00	7,618.00	13,705.37	7,480.00	74.93	122.50	-86.70	-2,302.78	5,567.31	2,363.28	2,228.72	134.56	17.563	
12,700.00	7,618.00	13,805.37	7,480.00	75.91	122.70	-86.70	-2,402.78	5,566.97	2,363.29	2,226.12	137.16	17.230	
12,800.00	7,618.00	13,905.37	7,480.00	76.95	122.92	-86.70	-2,502.77	5,566.63	2,363.29	2,223.48	139.81	16.904	
12,900.00	7,618.00	14,005.37	7,480.00	78.04	123.16	-86.70	-2,602.77	5,566.30	2,363.29	2,220.80	142.49	16.585	
13,000.00	7,618.00	14,105.37	7,480.00	79.16	123.42	-86.70	-2,702.77	5,565.96	2,363.29	2,218.08	145.21	16.275	
13,100.00	7,618.00	14,205.37	7,480.00	80.33	123.70	-86.70	-2,802.77	5,565.62	2,363.30	2,215.33	147.97	15.972	
13,200.00	7,618.00	14,305.37	7,480.00	81.54	124.00	-86.70	-2,902.77	5,565.29	2,363.30	2,212.54	150.75	15.676	
13,300.00	7,618.00	14,405.37	7,480.00	82.78	124.33	-86.70	-3,002.77	5,564.95	2,363.30	2,209.73	153.57	15.389	
13,400.00	7,618.00	14,494.63	7,480.00	84.05	124.64	-86.70	-3,102.77	5,564.61	2,363.30	2,207.03	156.27	15.123	
13,500.00	7,618.00	14,605.37	7,480.00	85.35	125.06	-86.70	-3,202.77	5,564.28	2,363.31	2,204.02	159.29	14.837	
13,600.00	7,618.00	14,705.37	7,480.00	86.67	125.46	-86.70	-3,302.77	5,563.94	2,363.31	2,201.12	162.19	14.571	
13,700.00	7,618.00	14,805.37	7,480.00	88.02	125.89	-86.70	-3,402.77	5,563.60	2,363.31	2,198.20	165.11	14.313	
13,800.00	7,618.00	14,905.37	7,480.00	89.38	126.35	-86.70	-3,502.77	5,563.27	2,363.31	2,195.26	168.06	14.063	
13,900.00	7,618.00	15,005.37	7,480.00	90.77	126.84	-86.70	-3,602.77	5,562.93	2,363.32	2,192.29	171.03	13.819	
14,000.00	7,618.00	15,105.37	7,480.00	92.17	127.35	-86.70	-3,702.77	5,562.59	2,363.32	2,189.30	174.01	13.581	
14,100.00	7,618.00	15,205.37	7,480.00	93.59	127.89	-86.70	-3,802.77	5,562.26	2,363.32	2,186.30	177.02	13.350	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,618.00	15,305.37	7,480.00	95.02	128.46	-86.70	-3,902.77	5,561.92	2,363.32	2,183.27	180.05	13.126	
14,300.00	7,618.00	15,394.63	7,480.00	96.47	129.00	-86.70	-4,002.77	5,561.59	2,363.33	2,180.39	182.94	12.919	
14,400.00	7,618.00	15,505.37	7,480.00	97.93	129.70	-86.70	-4,102.77	5,561.25	2,363.33	2,177.17	186.16	12.695	
14,500.00	7,618.00	15,605.37	7,480.00	99.41	130.36	-86.70	-4,202.77	5,560.91	2,363.33	2,174.09	189.24	12.489	
14,600.00	7,618.00	15,705.37	7,480.00	100.89	131.05	-86.70	-4,302.76	5,560.58	2,363.33	2,171.00	192.33	12.288	
14,700.00	7,618.00	15,805.37	7,480.00	102.38	131.78	-86.70	-4,402.76	5,560.24	2,363.34	2,167.89	195.44	12.092	
14,800.00	7,618.00	15,894.63	7,480.00	103.89	132.45	-86.70	-4,502.76	5,559.90	2,363.34	2,164.94	198.40	11.912	
14,900.00	7,618.00	16,005.37	7,480.00	105.40	133.31	-86.70	-4,602.76	5,559.57	2,363.34	2,161.64	201.70	11.717	
15,000.00	7,618.00	16,105.37	7,480.00	106.92	134.13	-86.70	-4,702.76	5,559.23	2,363.34	2,158.49	204.85	11.537	
15,100.00	7,618.00	16,205.37	7,480.00	108.45	134.97	-86.70	-4,802.76	5,558.89	2,363.35	2,155.33	208.01	11.362	
15,200.00	7,618.00	16,305.37	7,480.00	109.99	135.85	-86.70	-4,902.76	5,558.56	2,363.35	2,152.16	211.19	11.191	
15,300.00	7,618.00	16,405.37	7,480.00	111.54	136.75	-86.70	-5,002.76	5,558.22	2,363.35	2,148.98	214.37	11.025	
15,400.00	7,618.00	16,505.37	7,480.00	113.09	137.68	-86.70	-5,102.76	5,557.88	2,363.35	2,145.79	217.57	10.863	
15,500.00	7,618.00	16,594.63	7,480.00	114.65	138.54	-86.70	-5,202.76	5,557.55	2,363.36	2,142.75	220.60	10.713	
15,600.00	7,618.00	16,705.37	7,480.00	116.21	139.63	-86.70	-5,302.76	5,557.21	2,363.36	2,139.37	223.99	10.551	
15,700.00	7,618.00	16,805.37	7,480.00	117.78	140.64	-86.70	-5,402.76	5,556.87	2,363.36	2,136.15	227.21	10.402	
15,800.00	7,618.00	16,905.37	7,480.00	119.36	141.68	-86.70	-5,502.76	5,556.54	2,363.36	2,132.92	230.44	10.256	
15,900.00	7,618.00	17,005.37	7,480.00	120.94	142.75	-86.70	-5,602.76	5,556.20	2,363.37	2,129.68	233.68	10.113	
16,000.00	7,618.00	17,105.37	7,480.00	122.53	143.84	-86.70	-5,702.76	5,555.86	2,363.37	2,126.43	236.93	9.975	
16,100.00	7,618.00	17,205.37	7,480.00	124.12	144.95	-86.70	-5,802.76	5,555.53	2,363.37	2,123.18	240.19	9.839	
16,200.00	7,618.00	17,294.63	7,480.00	125.72	145.96	-86.70	-5,902.76	5,555.19	2,363.37	2,120.09	243.28	9.714	
16,300.00	7,618.00	17,405.37	7,480.00	127.32	147.24	-86.70	-6,002.75	5,554.85	2,363.38	2,116.65	246.73	9.579	
16,400.00	7,618.00	17,505.37	7,480.00	128.93	148.42	-86.70	-6,102.75	5,554.52	2,363.38	2,113.37	250.01	9.453	
16,500.00	7,618.00	17,605.37	7,480.00	130.54	149.62	-86.70	-6,202.75	5,554.18	2,363.38	2,110.08	253.30	9.331	
16,600.00	7,618.00	17,705.37	7,480.00	132.15	150.84	-86.70	-6,302.75	5,553.84	2,363.38	2,106.79	256.59	9.211	
16,700.00	7,618.00	17,805.37	7,480.00	133.77	152.08	-86.70	-6,402.75	5,553.51	2,363.39	2,103.50	259.89	9.094	
16,800.00	7,618.00	17,905.37	7,480.00	135.39	153.33	-86.70	-6,502.75	5,553.17	2,363.39	2,100.20	263.19	8.980	
16,900.00	7,618.00	18,005.37	7,480.00	137.01	154.60	-86.70	-6,602.75	5,552.83	2,363.39	2,096.89	266.50	8.868	
17,000.00	7,618.00	18,105.37	7,480.00	138.64	155.89	-86.70	-6,702.75	5,552.50	2,363.39	2,093.57	269.82	8.759	
17,100.00	7,618.00	18,205.37	7,480.00	140.27	157.19	-86.70	-6,802.75	5,552.16	2,363.40	2,090.25	273.14	8.653	
17,200.00	7,618.00	18,305.37	7,480.00	141.91	158.51	-86.70	-6,902.75	5,551.82	2,363.40	2,086.93	276.47	8.549	
17,300.00	7,618.00	18,405.37	7,480.00	143.55	159.85	-86.70	-7,002.75	5,551.49	2,363.40	2,083.60	279.80	8.447	
17,400.00	7,618.00	18,505.37	7,480.00	145.19	161.19	-86.70	-7,102.75	5,551.15	2,363.40	2,080.27	283.14	8.347	
17,500.00	7,618.00	18,594.63	7,480.00	146.83	162.41	-86.70	-7,202.75	5,550.81	2,363.41	2,077.11	286.30	8.255	
17,600.00	7,618.00	18,705.37	7,480.00	148.48	163.93	-86.70	-7,302.75	5,550.48	2,363.41	2,073.59	289.82	8.155	
17,700.00	7,618.00	18,805.37	7,480.00	150.13	165.31	-86.70	-7,402.75	5,550.14	2,363.41	2,070.24	293.17	8.061	
17,800.00	7,618.00	18,905.37	7,480.00	151.78	166.71	-86.70	-7,502.75	5,549.80	2,363.41	2,066.89	296.53	7.970	
17,900.00	7,618.00	19,005.37	7,480.00	153.43	168.12	-86.70	-7,602.75	5,549.47	2,363.42	2,063.53	299.89	7.881	
18,000.00	7,618.00	19,105.37	7,480.00	155.09	169.53	-86.70	-7,702.75	5,549.13	2,363.42	2,060.17	303.25	7.794	
18,100.00	7,618.00	19,205.37	7,480.00	156.75	170.96	-86.70	-7,802.74	5,548.79	2,363.42	2,056.81	306.61	7.708	
18,200.00	7,618.00	19,305.37	7,480.00	158.41	172.40	-86.70	-7,902.74	5,548.46	2,363.42	2,053.44	309.98	7.624	
18,300.00	7,618.00	19,405.37	7,480.00	160.07	173.85	-86.70	-8,002.74	5,548.12	2,363.43	2,050.07	313.36	7.542	
18,400.00	7,618.00	19,505.37	7,480.00	161.74	175.30	-86.70	-8,102.74	5,547.78	2,363.43	2,046.70	316.73	7.462	
18,500.00	7,618.00	19,605.37	7,480.00	163.41	176.77	-86.70	-8,202.74	5,547.45	2,363.43	2,043.32	320.11	7.383	
18,600.00	7,618.00	19,705.37	7,480.00	165.08	178.24	-86.70	-8,302.74	5,547.11	2,363.43	2,039.94	323.50	7.306	
18,700.00	7,618.00	19,794.63	7,480.00	166.75	179.56	-86.70	-8,402.74	5,546.77	2,363.44	2,036.74	326.70	7.234	
18,711.30	7,618.00	19,796.12	7,480.00	166.94	179.59	-86.70	-8,404.23	5,546.77	2,363.46	2,036.14	327.32	7.221	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	2.00	-2.00	0.00	0.00	90.52	-0.73	80.08	80.08				
100.00	100.00	98.00	98.00	0.13	0.13	90.52	-0.73	80.08	80.08	79.82	0.27	300.881	CC, ES
200.00	200.00	195.46	195.44	0.49	0.48	90.14	-0.20	81.58	81.62	80.65	0.97	83.824	
300.00	300.00	292.64	292.50	0.85	0.83	89.04	1.44	86.18	86.37	84.68	1.69	51.216	
400.00	400.00	389.39	388.90	1.21	1.19	87.46	4.16	93.84	94.38	91.98	2.40	39.361	
500.00	500.00	485.47	484.31	1.57	1.57	85.66	7.94	104.48	105.67	102.57	3.11	34.020	
600.00	600.00	580.70	578.44	1.93	1.97	83.84	12.73	118.00	120.28	116.47	3.81	31.571	
700.00	700.00	674.86	671.01	2.29	2.39	82.15	18.50	134.25	138.18	133.67	4.51	30.657	
800.00	800.00	767.78	761.75	2.64	2.84	80.65	25.19	153.09	159.33	154.13	5.20	30.657	
900.00	900.00	859.29	850.43	3.00	3.32	79.36	32.74	174.35	183.66	177.79	5.88	31.241	
1,000.00	999.98	949.69	937.28	3.36	3.82	21.05	41.12	197.96	209.54	203.00	6.54	32.039	
1,100.00	1,099.84	1,039.38	1,022.63	3.71	4.37	20.33	50.34	223.92	235.31	228.12	7.19	32.729	
1,200.00	1,199.45	1,128.38	1,106.44	4.07	4.95	19.91	60.37	252.16	260.93	253.08	7.84	33.274	
1,300.00	1,298.70	1,216.72	1,188.65	4.44	5.56	19.68	71.18	282.61	286.34	277.84	8.49	33.712	
1,400.00	1,397.47	1,304.41	1,269.24	4.82	6.22	19.61	82.74	315.17	311.52	302.38	9.15	34.055	
1,500.00	1,495.62	1,391.47	1,348.17	5.22	6.92	19.66	95.03	349.79	336.46	326.65	9.81	34.311	
1,600.00	1,593.06	1,477.92	1,425.40	5.65	7.67	19.80	108.02	386.39	361.13	350.66	10.47	34.486	
1,700.00	1,689.64	1,563.77	1,500.90	6.11	8.46	20.00	121.69	424.89	385.52	374.38	11.15	34.586	
1,800.00	1,785.27	1,649.05	1,574.66	6.61	9.30	20.27	136.01	465.22	409.63	397.79	11.83	34.614	
1,900.00	1,879.82	1,733.77	1,646.64	7.15	10.18	20.58	150.96	507.33	433.43	420.89	12.54	34.571	
2,000.00	1,973.17	1,817.95	1,716.82	7.73	11.10	20.92	166.51	551.13	456.93	443.67	13.26	34.458	
2,100.00	2,065.21	1,901.61	1,785.18	8.37	12.06	21.30	182.64	596.57	480.11	466.10	14.01	34.274	
2,200.00	2,155.84	1,984.76	1,851.71	9.07	13.07	21.71	199.33	643.58	502.97	488.19	14.79	34.014	
2,300.00	2,244.94	2,067.43	1,916.38	9.82	14.13	22.14	216.56	692.10	525.51	509.91	15.60	33.683	
2,400.00	2,332.39	2,149.63	1,979.19	10.64	15.23	22.58	234.30	742.06	547.72	531.27	16.46	33.283	
2,500.00	2,418.11	2,231.38	2,040.12	11.53	16.37	23.05	252.53	793.42	569.60	552.24	17.36	32.816	
2,558.91	2,467.74	2,279.33	2,075.13	12.08	17.06	23.33	263.50	824.30	582.33	564.41	17.91	32.512	
2,600.00	2,502.13	2,316.77	2,102.15	12.47	17.61	23.62	272.17	848.72	591.31	572.93	18.38	32.170	
2,700.00	2,585.83	2,414.03	2,172.30	13.45	19.05	24.34	294.71	912.21	613.33	593.66	19.67	31.186	
2,800.00	2,669.53	2,511.30	2,242.45	14.44	20.50	25.02	317.25	975.69	635.44	614.44	20.99	30.271	
2,900.00	2,753.22	2,608.56	2,312.60	15.46	21.96	25.64	339.79	1,039.18	657.62	635.27	22.35	29.424	
3,000.00	2,836.92	2,705.82	2,382.75	16.48	23.42	26.23	362.33	1,102.67	679.87	656.13	23.74	28.639	
3,100.00	2,920.62	2,803.08	2,452.90	17.52	24.89	26.78	384.87	1,166.16	702.19	677.04	25.16	27.914	
3,200.00	3,004.32	2,900.34	2,523.05	18.56	26.36	27.30	407.41	1,229.65	724.57	697.97	26.60	27.242	
3,300.00	3,088.01	3,002.39	2,593.20	19.61	27.91	27.78	429.95	1,293.14	747.00	718.90	28.10	26.588	
3,400.00	3,171.71	3,105.13	2,663.35	20.67	29.48	28.24	452.49	1,356.62	769.47	739.85	29.62	25.978	
3,500.00	3,255.41	3,207.87	2,733.50	21.73	31.04	28.67	475.03	1,420.11	792.00	760.83	31.16	25.414	
3,600.00	3,339.10	3,289.39	2,803.65	22.80	32.29	29.08	497.57	1,483.60	814.56	781.99	32.57	25.011	
3,700.00	3,422.80	3,386.65	2,873.80	23.87	33.77	29.47	520.11	1,547.09	837.16	803.05	34.10	24.548	
3,800.00	3,506.50	3,483.91	2,943.96	24.94	35.26	29.83	542.65	1,610.58	859.79	824.14	35.65	24.116	
3,900.00	3,590.20	3,581.18	3,014.11	26.02	36.75	30.18	565.19	1,674.07	882.45	845.24	37.21	23.713	
4,000.00	3,673.89	3,678.44	3,084.26	27.10	38.24	30.51	587.73	1,737.55	905.15	866.36	38.79	23.336	
4,100.00	3,757.59	3,775.70	3,154.41	28.18	39.73	30.82	610.27	1,801.04	927.87	887.50	40.37	22.983	
4,200.00	3,841.29	3,872.96	3,224.56	29.26	41.23	31.12	632.82	1,864.53	950.61	908.65	41.97	22.652	
4,300.00	3,924.99	3,970.22	3,294.71	30.35	42.72	31.41	655.36	1,928.02	973.38	929.81	43.57	22.341	
4,400.00	4,008.68	4,067.49	3,364.86	31.44	44.22	31.68	677.90	1,991.51	996.17	950.99	45.18	22.048	
4,500.00	4,092.38	4,164.75	3,435.01	32.52	45.71	31.94	700.44	2,054.99	1,018.99	972.18	46.80	21.773	
4,600.00	4,176.08	4,262.01	3,505.16	33.62	47.21	32.18	722.98	2,118.48	1,041.82	993.39	48.43	21.513	
4,700.00	4,259.77	4,359.27	3,575.31	34.71	48.70	32.42	745.52	2,181.97	1,064.66	1,014.60	50.06	21.267	
4,800.00	4,343.47	4,456.53	3,645.46	35.80	50.20	32.65	768.06	2,245.46	1,087.53	1,035.83	51.70	21.034	
4,900.00	4,427.17	4,553.80	3,715.61	36.89	51.70	32.87	790.60	2,308.95	1,110.41	1,057.06	53.35	20.814	
5,000.00	4,510.87	4,651.06	3,785.76	37.99	53.20	33.08	813.14	2,372.44	1,133.30	1,078.30	55.00	20.605	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	4,748.32	3,855.91	39.08	54.70	33.28	835.68	2,435.92	1,156.21	1,099.56	56.66	20.407	
5,200.00	4,678.26	4,845.58	3,926.06	40.18	56.20	33.47	858.22	2,499.41	1,179.14	1,120.82	58.32	20.219	
5,300.00	4,761.96	4,942.84	3,996.21	41.28	57.70	33.66	880.76	2,562.90	1,202.07	1,142.08	59.99	20.039	
5,400.00	4,845.66	5,040.10	4,066.36	42.37	59.20	33.84	903.30	2,626.39	1,225.01	1,163.36	61.66	19.868	
5,500.00	4,929.35	5,137.37	4,136.51	43.47	60.70	34.01	925.84	2,689.88	1,247.97	1,184.64	63.33	19.705	
5,600.00	5,013.05	5,234.63	4,206.66	44.57	62.20	34.17	948.38	2,753.36	1,270.94	1,205.93	65.01	19.550	
5,700.00	5,096.75	5,331.89	4,276.81	45.67	63.70	34.33	970.92	2,816.85	1,293.92	1,227.22	66.69	19.401	
5,800.00	5,180.45	5,429.15	4,346.96	46.77	65.20	34.49	993.46	2,880.34	1,316.90	1,248.52	68.38	19.259	
5,900.00	5,264.14	5,526.41	4,417.11	47.87	66.70	34.64	1,016.01	2,943.83	1,339.90	1,269.83	70.07	19.123	
6,000.00	5,347.84	5,623.68	4,487.26	48.97	68.20	34.78	1,038.55	3,007.32	1,362.90	1,291.14	71.76	18.993	
6,100.00	5,431.54	5,720.94	4,557.41	50.07	69.70	34.92	1,061.09	3,070.81	1,385.91	1,312.46	73.45	18.868	
6,200.00	5,515.23	5,818.20	4,627.56	51.17	71.20	35.06	1,083.63	3,134.29	1,408.93	1,333.78	75.15	18.749	
6,300.00	5,598.93	5,915.46	4,697.71	52.27	72.71	35.19	1,106.17	3,197.78	1,431.95	1,355.11	76.85	18.634	
6,400.00	5,682.63	6,012.72	4,767.86	53.38	74.21	35.31	1,128.71	3,261.27	1,454.99	1,376.44	78.55	18.523	
6,500.00	5,766.33	6,109.99	4,838.01	54.48	75.71	35.44	1,151.25	3,324.76	1,478.03	1,397.77	80.25	18.417	
6,600.00	5,850.02	6,207.25	4,908.16	55.58	77.21	35.56	1,173.79	3,388.25	1,501.07	1,419.11	81.96	18.314	
6,700.00	5,933.72	6,304.51	4,978.31	56.68	78.72	35.67	1,196.33	3,451.73	1,524.12	1,440.45	83.67	18.216	
6,800.00	6,017.42	6,401.77	5,048.46	57.79	80.22	35.78	1,218.87	3,515.22	1,547.18	1,461.80	85.38	18.121	
6,900.00	6,101.12	6,500.97	5,118.61	58.89	81.75	35.89	1,241.41	3,578.71	1,570.24	1,483.13	87.11	18.026	
7,000.00	6,184.81	6,603.71	5,188.76	59.99	83.34	36.00	1,263.95	3,642.20	1,593.31	1,504.44	88.87	17.928	
7,100.00	6,268.51	6,706.44	5,258.91	61.10	84.93	36.10	1,286.49	3,705.69	1,616.38	1,525.75	90.63	17.834	
7,200.00	6,352.21	6,809.18	5,329.06	62.20	86.52	36.20	1,309.03	3,769.18	1,639.46	1,547.06	92.40	17.743	
7,300.00	6,435.90	6,888.08	5,399.21	63.31	87.74	36.30	1,331.57	3,832.66	1,662.54	1,568.58	93.96	17.694	
7,400.00	6,519.60	6,985.34	5,469.36	64.41	89.24	36.39	1,354.11	3,896.15	1,685.63	1,589.95	95.68	17.617	
7,500.00	6,603.30	7,082.60	5,539.51	65.51	90.74	36.48	1,376.66	3,959.64	1,708.72	1,611.31	97.40	17.543	
7,600.00	6,687.00	7,179.87	5,609.66	66.62	92.25	36.57	1,399.20	4,023.13	1,731.81	1,632.68	99.13	17.471	
7,700.00	6,770.69	7,277.13	5,679.81	67.72	93.75	36.66	1,421.74	4,086.62	1,754.91	1,654.06	100.85	17.401	
7,800.00	6,854.39	7,374.39	5,749.96	68.83	95.25	36.74	1,444.28	4,150.11	1,778.01	1,675.43	102.58	17.333	
7,900.00	6,938.09	7,471.65	5,820.11	69.93	96.76	36.82	1,466.82	4,213.59	1,801.12	1,696.81	104.30	17.268	
7,933.18	6,965.86	7,503.92	5,843.39	70.30	97.26	36.85	1,474.30	4,234.66	1,808.78	1,703.91	104.88	17.247	
7,950.00	6,980.00	7,520.29	5,855.19	70.49	97.51	34.93	1,478.09	4,245.35	1,812.64	1,707.48	105.15	17.238	
8,000.00	7,022.68	7,568.99	5,890.32	71.01	98.26	28.40	1,489.38	4,277.13	1,823.64	1,717.84	105.80	17.236	
8,050.00	7,066.06	7,617.45	5,925.27	71.51	99.01	20.78	1,500.61	4,308.77	1,833.94	1,727.75	106.19	17.270	
8,100.00	7,109.82	7,665.31	5,959.78	71.97	99.75	12.41	1,511.70	4,340.00	1,843.50	1,737.19	106.31	17.340	
8,150.00	7,153.63	7,712.19	5,993.59	72.38	100.48	3.78	1,522.56	4,370.60	1,852.32	1,746.15	106.17	17.446	
8,200.00	7,197.14	7,757.74	6,026.45	72.74	101.18	-4.59	1,533.12	4,400.34	1,860.43	1,754.66	105.77	17.590	
8,250.00	7,240.04	7,801.61	6,058.09	73.05	101.86	-12.30	1,543.29	4,428.97	1,867.88	1,762.77	105.11	17.770	
8,300.00	7,281.99	7,843.47	6,088.29	73.31	102.51	-19.14	1,552.99	4,456.30	1,874.77	1,770.54	104.22	17.988	
8,350.00	7,322.67	7,883.01	6,116.80	73.52	103.12	-25.04	1,562.15	4,482.11	1,881.18	1,778.07	103.11	18.244	
8,400.00	7,361.77	7,919.91	6,143.42	73.68	103.69	-30.05	1,570.70	4,506.20	1,887.23	1,785.42	101.81	18.538	
8,450.00	7,399.01	7,953.91	6,167.94	73.78	104.22	-34.26	1,578.58	4,528.39	1,893.03	1,792.70	100.33	18.868	
8,500.00	7,434.08	7,984.74	6,190.17	73.85	104.69	-37.76	1,585.73	4,548.51	1,898.72	1,799.99	98.73	19.232	
8,550.00	7,466.74	8,012.16	6,209.95	73.87	105.12	-40.64	1,592.08	4,566.41	1,904.40	1,807.37	97.03	19.628	
8,600.00	7,496.72	8,035.97	6,227.12	73.85	105.49	-42.95	1,597.60	4,581.95	1,910.19	1,814.91	95.27	20.049	
8,650.00	7,523.80	8,055.99	6,241.56	73.79	105.79	-44.76	1,602.24	4,595.02	1,916.17	1,822.66	93.51	20.491	
8,700.00	7,547.77	8,072.06	6,253.15	73.70	106.04	-46.10	1,605.96	4,605.51	1,922.42	1,830.63	91.79	20.944	
8,750.00	7,568.45	8,084.06	6,261.81	73.58	106.23	-47.00	1,608.74	4,613.35	1,928.99	1,838.85	90.14	21.399	
8,800.00	7,585.69	8,108.10	6,267.47	73.43	106.60	-47.49	1,610.56	4,618.47	1,935.91	1,847.18	88.73	21.818	
8,850.00	7,599.35	8,104.47	6,270.08	73.26	106.54	-47.60	1,611.40	4,620.83	1,943.16	1,855.84	87.32	22.254	
8,900.00	7,609.33	8,105.10	6,269.63	73.07	106.55	-47.33	1,611.26	4,620.42	1,950.71	1,864.56	86.15	22.643	
8,950.00	7,615.55	8,109.96	6,266.12	72.87	106.63	-46.73	1,610.13	4,617.25	1,958.51	1,873.26	85.25	22.975	
9,000.00	7,617.97	8,080.97	6,259.58	72.65	106.18	-45.80	1,608.03	4,611.33	1,966.45	1,882.07	84.37	23.306	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,006.60	7,618.00	8,079.46	6,258.49	72.62	106.16	-45.66	1,607.68	4,610.34	1,967.50	1,883.21	84.29	23.342	
9,100.00	7,618.00	8,057.61	6,242.73	72.22	105.82	-45.03	1,602.61	4,596.08	1,984.42	1,900.86	83.56	23.749	
9,200.00	7,618.00	8,034.21	6,225.86	71.80	105.46	-44.36	1,597.19	4,580.81	2,006.94	1,923.31	83.63	23.998	
9,300.00	7,618.00	8,010.81	6,208.98	71.41	105.10	-43.70	1,591.77	4,565.53	2,033.86	1,949.34	84.52	24.064	
9,400.00	7,618.00	7,987.42	6,192.11	71.04	104.73	-43.03	1,586.35	4,550.26	2,065.01	1,978.91	86.11	23.982	
9,500.00	7,618.00	7,964.02	6,175.23	70.68	104.37	-42.36	1,580.93	4,534.99	2,100.21	2,011.94	88.27	23.793	
9,600.00	7,618.00	7,940.62	6,158.36	70.35	104.01	-41.70	1,575.50	4,519.72	2,139.25	2,048.38	90.86	23.543	
9,700.00	7,618.00	7,917.23	6,141.48	70.04	103.65	-41.04	1,570.08	4,504.45	2,181.92	2,088.15	93.77	23.269	
9,800.00	7,618.00	7,906.17	6,124.61	69.75	103.48	-40.37	1,564.66	4,489.17	2,228.02	2,131.07	96.96	22.979	
9,900.00	7,618.00	7,870.44	6,107.73	69.47	102.92	-39.72	1,559.24	4,473.90	2,277.35	2,177.27	100.08	22.756	
10,000.00	7,618.00	7,847.04	6,090.86	69.22	102.56	-39.06	1,553.81	4,458.63	2,329.68	2,226.37	103.31	22.550	
10,100.00	7,618.00	7,823.64	6,073.98	68.99	102.20	-38.40	1,548.39	4,443.36	2,384.84	2,278.32	106.51	22.390	
10,200.00	7,618.00	7,800.25	6,057.11	68.78	101.84	-37.75	1,542.97	4,428.09	2,442.62	2,332.97	109.64	22.278	
10,300.00	7,618.00	7,776.85	6,040.23	68.59	101.48	-37.10	1,537.55	4,412.81	2,502.84	2,390.17	112.67	22.214	
10,400.00	7,618.00	7,753.45	6,023.36	68.42	101.12	-36.46	1,532.13	4,397.54	2,565.34	2,449.77	115.57	22.197	
10,500.00	7,618.00	7,730.06	6,006.48	68.28	100.75	-35.81	1,526.70	4,382.27	2,629.94	2,511.61	118.33	22.225	
10,600.00	7,618.00	7,706.66	5,989.61	68.16	100.39	-35.17	1,521.28	4,367.00	2,696.51	2,575.56	120.95	22.295	
10,700.00	7,618.00	12,185.16	7,730.00	68.06	129.94	-92.40	-404.03	5,933.72	2,721.72	2,628.47	93.25	29.187	
10,800.00	7,618.00	12,285.16	7,730.00	67.99	129.86	-92.40	-504.03	5,933.38	2,721.72	2,627.32	94.41	28.830	
10,900.00	7,618.00	12,385.16	7,730.00	67.95	129.78	-92.40	-604.03	5,933.04	2,721.72	2,626.05	95.68	28.447	
11,000.00	7,618.00	12,485.16	7,730.00	67.95	129.72	-92.40	-704.03	5,932.70	2,721.73	2,624.66	97.06	28.041	
11,100.00	7,618.00	12,585.16	7,730.00	67.97	129.67	-92.40	-804.03	5,932.36	2,721.73	2,623.17	98.55	27.617	
11,200.00	7,618.00	12,685.16	7,730.00	68.04	129.63	-92.40	-904.03	5,932.03	2,721.73	2,621.58	100.15	27.178	
11,300.00	7,618.00	12,785.16	7,730.00	68.15	129.60	-92.40	-1,004.03	5,931.69	2,721.73	2,619.89	101.84	26.726	
11,400.00	7,618.00	12,885.16	7,730.00	68.30	129.59	-92.40	-1,104.03	5,931.35	2,721.73	2,618.11	103.62	26.266	
11,500.00	7,618.00	12,985.16	7,730.00	68.50	129.59	-92.40	-1,204.03	5,931.01	2,721.73	2,616.24	105.49	25.800	
11,600.00	7,618.00	13,085.16	7,730.00	68.75	129.60	-92.40	-1,304.03	5,930.68	2,721.73	2,614.29	107.45	25.331	
11,700.00	7,618.00	13,185.16	7,730.00	69.06	129.62	-92.40	-1,404.02	5,930.34	2,721.73	2,612.26	109.48	24.861	
11,800.00	7,618.00	13,285.16	7,730.00	69.44	129.66	-92.40	-1,504.02	5,930.00	2,721.74	2,610.15	111.59	24.391	
11,900.00	7,618.00	13,385.16	7,730.00	69.88	129.71	-92.40	-1,604.02	5,929.66	2,721.74	2,607.97	113.76	23.924	
12,000.00	7,618.00	13,485.16	7,730.00	70.39	129.77	-92.40	-1,704.02	5,929.32	2,721.74	2,605.73	116.01	23.462	
12,100.00	7,618.00	13,585.16	7,730.00	70.97	129.85	-92.40	-1,804.02	5,928.99	2,721.74	2,603.43	118.31	23.004	
12,200.00	7,618.00	13,685.16	7,730.00	71.63	129.94	-92.40	-1,904.02	5,928.65	2,721.74	2,601.06	120.68	22.553	
12,300.00	7,618.00	13,785.16	7,730.00	72.35	130.05	-92.40	-2,004.02	5,928.31	2,721.74	2,598.64	123.10	22.110	
12,400.00	7,618.00	13,885.16	7,730.00	73.15	130.17	-92.40	-2,104.02	5,927.97	2,721.74	2,596.17	125.57	21.674	
12,500.00	7,618.00	13,985.16	7,730.00	74.01	130.31	-92.40	-2,204.02	5,927.64	2,721.75	2,593.65	128.10	21.248	
12,600.00	7,618.00	14,085.16	7,730.00	74.93	130.47	-92.40	-2,304.02	5,927.30	2,721.75	2,591.08	130.67	20.830	
12,700.00	7,618.00	14,185.16	7,730.00	75.91	130.64	-92.40	-2,404.02	5,926.96	2,721.75	2,588.47	133.28	20.421	
12,800.00	7,618.00	14,285.16	7,730.00	76.95	130.83	-92.40	-2,504.02	5,926.62	2,721.75	2,585.82	135.93	20.023	
12,900.00	7,618.00	14,385.16	7,730.00	78.04	131.04	-92.40	-2,604.02	5,926.28	2,721.75	2,583.13	138.63	19.634	
13,000.00	7,618.00	14,485.16	7,730.00	79.16	131.27	-92.40	-2,704.02	5,925.95	2,721.75	2,580.40	141.36	19.255	
13,100.00	7,618.00	14,585.16	7,730.00	80.33	131.51	-92.40	-2,804.02	5,925.61	2,721.75	2,577.63	144.12	18.885	
13,200.00	7,618.00	14,685.16	7,730.00	81.54	131.78	-92.40	-2,904.02	5,925.27	2,721.76	2,574.84	146.92	18.526	
13,300.00	7,618.00	14,785.16	7,730.00	82.78	132.06	-92.40	-3,004.02	5,924.93	2,721.76	2,572.01	149.75	18.176	
13,400.00	7,618.00	14,885.16	7,730.00	84.05	132.37	-92.40	-3,104.01	5,924.60	2,721.76	2,569.15	152.60	17.836	
13,500.00	7,618.00	14,985.16	7,730.00	85.35	132.70	-92.40	-3,204.01	5,924.26	2,721.76	2,566.27	155.49	17.505	
13,600.00	7,618.00	15,085.16	7,730.00	86.67	133.05	-92.40	-3,304.01	5,923.92	2,721.76	2,563.36	158.40	17.183	
13,700.00	7,618.00	15,185.16	7,730.00	88.02	133.42	-92.40	-3,404.01	5,923.58	2,721.76	2,560.43	161.34	16.870	
13,800.00	7,618.00	15,285.16	7,730.00	89.38	133.82	-92.40	-3,504.01	5,923.24	2,721.76	2,557.47	164.29	16.566	
13,900.00	7,618.00	15,385.16	7,730.00	90.77	134.24	-92.40	-3,604.01	5,922.91	2,721.76	2,554.49	167.28	16.271	
14,000.00	7,618.00	15,485.16	7,730.00	92.17	134.69	-92.40	-3,704.01	5,922.57	2,721.77	2,551.49	170.28	15.984	
14,100.00	7,618.00	15,585.16	7,730.00	93.59	135.16	-92.40	-3,804.01	5,922.23	2,721.77	2,548.47	173.30	15.706	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,618.00	15,685.16	7,730.00	95.02	135.66	-92.40	-3,904.01	5,921.89	2,721.77	2,545.43	176.34	15.435	
14,300.00	7,618.00	15,785.16	7,730.00	96.47	136.18	-92.40	-4,004.01	5,921.56	2,721.77	2,542.37	179.40	15.172	
14,400.00	7,618.00	15,885.16	7,730.00	97.93	136.73	-92.40	-4,104.01	5,921.22	2,721.77	2,539.30	182.48	14.916	
14,500.00	7,618.00	15,985.16	7,730.00	99.41	137.30	-92.40	-4,204.01	5,920.88	2,721.77	2,536.21	185.57	14.667	
14,600.00	7,618.00	16,085.16	7,730.00	100.89	137.91	-92.40	-4,304.01	5,920.54	2,721.77	2,533.10	188.67	14.426	
14,700.00	7,618.00	16,185.16	7,730.00	102.38	138.54	-92.40	-4,404.01	5,920.20	2,721.78	2,529.98	191.80	14.191	
14,800.00	7,618.00	16,285.16	7,730.00	103.89	139.19	-92.40	-4,504.01	5,919.87	2,721.78	2,526.84	194.93	13.963	
14,900.00	7,618.00	16,385.16	7,730.00	105.40	139.88	-92.40	-4,604.01	5,919.53	2,721.78	2,523.70	198.08	13.741	
15,000.00	7,618.00	16,485.16	7,730.00	106.92	140.60	-92.40	-4,704.01	5,919.19	2,721.78	2,520.54	201.24	13.525	
15,100.00	7,618.00	16,585.16	7,730.00	108.45	141.34	-92.40	-4,804.01	5,918.85	2,721.78	2,517.36	204.42	13.315	
15,200.00	7,618.00	16,685.16	7,730.00	109.99	142.11	-92.40	-4,904.00	5,918.52	2,721.78	2,514.18	207.60	13.110	
15,300.00	7,618.00	16,785.16	7,730.00	111.54	142.91	-92.40	-5,004.00	5,918.18	2,721.78	2,510.98	210.80	12.912	
15,400.00	7,618.00	16,885.16	7,730.00	113.09	143.73	-92.40	-5,104.00	5,917.84	2,721.79	2,507.78	214.01	12.718	
15,500.00	7,618.00	16,985.16	7,730.00	114.65	144.58	-92.40	-5,204.00	5,917.50	2,721.79	2,504.56	217.22	12.530	
15,600.00	7,618.00	17,085.16	7,730.00	116.21	145.46	-92.40	-5,304.00	5,917.16	2,721.79	2,501.34	220.45	12.346	
15,700.00	7,618.00	17,185.16	7,730.00	117.78	146.37	-92.40	-5,404.00	5,916.83	2,721.79	2,498.10	223.69	12.168	
15,800.00	7,618.00	17,285.16	7,730.00	119.36	147.30	-92.40	-5,504.00	5,916.49	2,721.79	2,494.86	226.93	11.994	
15,900.00	7,618.00	17,385.16	7,730.00	120.94	148.26	-92.40	-5,604.00	5,916.15	2,721.79	2,491.61	230.18	11.824	
16,000.00	7,618.00	17,485.16	7,730.00	122.53	149.24	-92.40	-5,704.00	5,915.81	2,721.79	2,488.35	233.45	11.659	
16,100.00	7,618.00	17,585.16	7,730.00	124.12	150.25	-92.40	-5,804.00	5,915.48	2,721.79	2,485.08	236.71	11.498	
16,200.00	7,618.00	17,685.16	7,730.00	125.72	151.28	-92.40	-5,904.00	5,915.14	2,721.80	2,481.80	239.99	11.341	
16,300.00	7,618.00	17,785.16	7,730.00	127.32	152.34	-92.40	-6,004.00	5,914.80	2,721.80	2,478.52	243.27	11.188	
16,400.00	7,618.00	17,885.16	7,730.00	128.93	153.41	-92.40	-6,104.00	5,914.46	2,721.80	2,475.23	246.57	11.039	
16,500.00	7,618.00	17,985.16	7,730.00	130.54	154.51	-92.40	-6,204.00	5,914.12	2,721.80	2,471.94	249.86	10.893	
16,600.00	7,618.00	18,085.16	7,730.00	132.15	155.63	-92.40	-6,304.00	5,913.79	2,721.80	2,468.64	253.17	10.751	
16,700.00	7,618.00	18,185.16	7,730.00	133.77	156.78	-92.40	-6,404.00	5,913.45	2,721.80	2,465.33	256.48	10.612	
16,800.00	7,618.00	18,285.16	7,730.00	135.39	157.94	-92.40	-6,504.00	5,913.11	2,721.80	2,462.01	259.79	10.477	
16,900.00	7,618.00	18,385.16	7,730.00	137.01	159.12	-92.40	-6,603.99	5,912.77	2,721.81	2,458.69	263.11	10.345	
17,000.00	7,618.00	18,485.16	7,730.00	138.64	160.32	-92.40	-6,703.99	5,912.44	2,721.81	2,455.37	266.44	10.216	
17,100.00	7,618.00	18,585.16	7,730.00	140.27	161.54	-92.40	-6,803.99	5,912.10	2,721.81	2,452.04	269.77	10.089	
17,200.00	7,618.00	18,685.16	7,730.00	141.91	162.77	-92.40	-6,903.99	5,911.76	2,721.81	2,448.70	273.11	9.966	
17,300.00	7,618.00	18,785.16	7,730.00	143.55	164.02	-92.40	-7,003.99	5,911.42	2,721.81	2,445.36	276.45	9.846	
17,400.00	7,618.00	18,885.16	7,730.00	145.19	165.29	-92.40	-7,103.99	5,911.08	2,721.81	2,442.02	279.79	9.728	
17,500.00	7,618.00	18,985.16	7,730.00	146.83	166.57	-92.40	-7,203.99	5,910.75	2,721.81	2,438.67	283.14	9.613	
17,600.00	7,618.00	19,085.16	7,730.00	148.48	167.87	-92.40	-7,303.99	5,910.41	2,721.82	2,435.32	286.50	9.500	
17,700.00	7,618.00	19,185.16	7,730.00	150.13	169.18	-92.40	-7,403.99	5,910.07	2,721.82	2,431.96	289.86	9.390	
17,800.00	7,618.00	19,285.16	7,730.00	151.78	170.51	-92.40	-7,503.99	5,909.73	2,721.82	2,428.60	293.22	9.282	
17,900.00	7,618.00	19,385.16	7,730.00	153.43	171.84	-92.40	-7,603.99	5,909.40	2,721.82	2,425.23	296.59	9.177	
18,000.00	7,618.00	19,485.16	7,730.00	155.09	173.19	-92.40	-7,703.99	5,909.06	2,721.82	2,421.86	299.96	9.074	
18,100.00	7,618.00	19,585.16	7,730.00	156.75	174.56	-92.40	-7,803.99	5,908.72	2,721.82	2,418.49	303.33	8.973	
18,200.00	7,618.00	19,685.16	7,730.00	158.41	175.93	-92.40	-7,903.99	5,908.38	2,721.82	2,415.11	306.71	8.874	
18,300.00	7,618.00	19,785.16	7,730.00	160.07	177.32	-92.40	-8,003.99	5,908.04	2,721.82	2,411.73	310.09	8.777	
18,400.00	7,618.00	19,885.16	7,730.00	161.74	178.71	-92.40	-8,103.99	5,907.71	2,721.83	2,408.35	313.48	8.683	
18,500.00	7,618.00	19,985.16	7,730.00	163.41	180.12	-92.40	-8,203.99	5,907.37	2,721.83	2,404.96	316.87	8.590	
18,600.00	7,618.00	20,085.16	7,730.00	165.08	181.54	-92.40	-8,303.99	5,907.03	2,721.83	2,401.57	320.26	8.499	
18,700.00	7,618.00	20,185.16	7,730.00	166.75	182.96	-92.40	-8,403.98	5,906.69	2,721.83	2,398.18	323.65	8.410	
18,711.30	7,618.00	20,184.95	7,730.00	166.94	182.96	-92.40	-8,403.78	5,906.69	2,721.85	2,397.59	324.27	8.394	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-89.58	0.36	-50.12	50.12				
100.00	100.00	100.00	100.00	0.13	0.13	-89.58	0.36	-50.12	50.12	49.85	0.27	186.428	
200.00	200.00	200.00	200.00	0.49	0.49	-89.58	0.36	-50.12	50.12	49.14	0.99	50.844	
300.00	300.00	300.00	300.00	0.85	0.85	-89.58	0.36	-50.12	50.12	48.42	1.70	29.436	
400.00	400.00	400.00	400.00	1.21	1.21	-89.58	0.36	-50.12	50.12	47.70	2.42	20.714	
500.00	500.00	500.00	500.00	1.57	1.57	-89.58	0.36	-50.12	50.12	46.99	3.14	15.980	
600.00	600.00	600.00	600.00	1.93	1.93	-89.58	0.36	-50.12	50.12	46.27	3.85	13.007	
700.00	700.00	700.00	700.00	2.29	2.29	-89.58	0.36	-50.12	50.12	45.55	4.57	10.966	
800.00	800.00	800.00	800.00	2.64	2.64	-89.58	0.36	-50.12	50.12	44.83	5.29	9.479	
900.00	900.00	900.00	900.00	3.00	3.00	-89.58	0.36	-50.12	50.12	44.12	6.00	8.348	CC, ES
1,000.00	999.98	1,000.02	999.98	3.36	3.36	-147.82	0.36	-50.12	51.59	44.87	6.72	7.680	
1,100.00	1,099.84	1,100.16	1,099.84	3.71	3.72	-150.62	0.36	-50.12	56.09	48.66	7.43	7.550	
1,200.00	1,199.45	1,200.55	1,199.45	4.07	4.08	-154.39	0.36	-50.12	63.83	55.69	8.14	7.838	
1,300.00	1,298.70	1,301.30	1,298.70	4.44	4.44	-158.33	0.36	-50.12	75.02	66.15	8.86	8.466	
1,400.00	1,397.47	1,397.47	1,397.47	4.82	4.79	-161.93	0.36	-50.12	89.76	80.19	9.56	9.384	
1,500.00	1,495.62	1,498.67	1,498.65	5.22	5.15	-164.54	1.71	-49.08	106.72	96.44	10.28	10.379	
1,600.00	1,593.06	1,600.49	1,600.32	5.65	5.51	-165.90	5.90	-45.82	124.25	113.26	11.00	11.299	
1,700.00	1,689.64	1,702.85	1,702.28	6.11	5.88	-166.45	13.00	-40.32	142.22	130.51	11.71	12.143	
1,800.00	1,785.27	1,805.73	1,804.38	6.61	6.25	-166.44	23.03	-32.54	160.57	148.14	12.43	12.917	
1,900.00	1,879.82	1,909.13	1,906.45	7.15	6.64	-166.05	36.01	-22.46	179.28	166.12	13.16	13.627	
2,000.00	1,973.17	2,013.01	2,008.35	7.73	7.04	-165.37	51.99	-10.07	198.33	184.44	13.89	14.275	
2,100.00	2,065.21	2,117.38	2,109.90	8.37	7.47	-164.48	70.96	4.65	217.75	203.10	14.65	14.864	
2,200.00	2,155.84	2,222.20	2,210.96	9.07	7.92	-163.44	92.95	21.71	237.54	222.11	15.43	15.393	
2,300.00	2,244.94	2,327.47	2,311.35	9.82	8.42	-162.27	117.95	41.11	257.73	241.48	16.25	15.860	
2,400.00	2,332.39	2,433.16	2,410.91	10.64	8.95	-161.00	145.97	62.85	278.33	261.22	17.12	16.261	
2,500.00	2,418.11	2,539.27	2,509.47	11.53	9.53	-159.66	177.00	86.92	299.37	281.33	18.04	16.594	
2,558.91	2,467.74	2,601.95	2,567.00	12.08	9.89	-158.85	196.67	102.19	311.98	293.36	18.62	16.759	
2,600.00	2,502.13	2,645.81	2,606.92	12.47	10.16	-158.32	211.03	113.33	320.60	301.56	19.04	16.842	
2,700.00	2,585.83	2,744.82	2,696.50	13.45	10.79	-157.08	244.33	139.16	340.73	320.60	20.13	16.926	
2,800.00	2,669.53	2,842.53	2,784.91	14.44	11.43	-156.00	277.22	164.68	360.97	339.70	21.27	16.969	
2,900.00	2,753.22	2,940.25	2,873.31	15.46	12.09	-155.03	310.10	190.20	381.32	358.87	22.45	16.984	
3,000.00	2,836.92	3,037.96	2,961.72	16.48	12.77	-154.16	342.99	215.71	401.77	378.10	23.66	16.977	
3,100.00	2,920.62	3,135.67	3,050.12	17.52	13.46	-153.37	375.88	241.23	422.29	397.38	24.91	16.954	
3,200.00	3,004.32	3,233.39	3,138.53	18.56	14.16	-152.66	408.77	266.75	442.89	416.71	26.18	16.919	
3,300.00	3,088.01	3,331.10	3,226.93	19.61	14.87	-152.01	441.65	292.26	463.54	436.07	27.47	16.874	
3,400.00	3,171.71	3,428.82	3,315.34	20.67	15.59	-151.42	474.54	317.78	484.25	455.46	28.78	16.824	
3,500.00	3,255.41	3,526.53	3,403.74	21.73	16.32	-150.87	507.43	343.29	505.00	474.88	30.12	16.769	
3,600.00	3,339.10	3,624.24	3,492.15	22.80	17.05	-150.37	540.31	368.81	525.79	494.33	31.46	16.711	
3,700.00	3,422.80	3,721.96	3,580.55	23.87	17.79	-149.90	573.20	394.33	546.62	513.80	32.83	16.652	
3,800.00	3,506.50	3,819.67	3,668.95	24.94	18.54	-149.47	606.09	419.84	567.48	533.28	34.20	16.592	
3,900.00	3,590.20	3,917.39	3,757.36	26.02	19.28	-149.07	638.98	445.36	588.37	552.78	35.59	16.532	
4,000.00	3,673.89	4,015.10	3,845.76	27.10	20.04	-148.70	671.86	470.88	609.29	572.30	36.99	16.473	
4,100.00	3,757.59	4,112.81	3,934.17	28.18	20.79	-148.35	704.75	496.39	630.23	591.83	38.39	16.414	
4,200.00	3,841.29	4,210.53	4,022.57	29.26	21.55	-148.02	737.64	521.91	651.19	611.37	39.81	16.357	
4,300.00	3,924.99	4,308.24	4,110.98	30.35	22.31	-147.72	770.53	547.43	672.16	630.93	41.23	16.301	
4,400.00	4,008.68	4,405.96	4,199.38	31.44	23.07	-147.43	803.41	572.94	693.16	650.49	42.66	16.247	
4,500.00	4,092.38	4,503.67	4,287.79	32.52	23.84	-147.16	836.30	598.46	714.17	670.07	44.10	16.194	
4,600.00	4,176.08	4,601.38	4,376.19	33.62	24.61	-146.91	869.19	623.97	735.19	689.65	45.54	16.142	
4,700.00	4,259.77	4,700.90	4,464.59	34.71	25.39	-146.67	902.08	649.49	756.23	709.23	47.00	16.089	
4,800.00	4,343.47	4,803.19	4,553.00	35.80	26.20	-146.44	934.96	675.01	777.28	728.80	48.49	16.030	
4,900.00	4,427.17	4,905.47	4,641.40	36.89	27.01	-146.22	967.85	700.52	798.34	748.37	49.98	15.974	
5,000.00	4,510.87	5,007.76	4,729.81	37.99	27.82	-146.02	1,000.74	726.04	819.42	767.95	51.47	15.921	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	5,089.95	4,818.21	39.08	28.47	-145.83	1,033.63	751.56	840.50	787.67	52.83	15.910	
5,200.00	4,678.26	5,187.67	4,906.62	40.18	29.25	-145.64	1,066.51	777.07	861.59	807.29	54.30	15.868	
5,300.00	4,761.96	5,285.38	4,995.02	41.28	30.03	-145.46	1,099.40	802.59	882.69	826.92	55.77	15.827	
5,400.00	4,845.66	5,383.10	5,083.43	42.37	30.81	-145.30	1,132.29	828.11	903.79	846.55	57.25	15.788	
5,500.00	4,929.35	5,480.81	5,171.83	43.47	31.59	-145.14	1,165.18	853.62	924.90	866.18	58.72	15.750	
5,600.00	5,013.05	5,578.52	5,260.23	44.57	32.37	-144.98	1,198.06	879.14	946.02	885.82	60.20	15.714	
5,700.00	5,096.75	5,676.24	5,348.64	45.67	33.15	-144.84	1,230.95	904.65	967.15	905.46	61.69	15.678	
5,800.00	5,180.45	5,773.95	5,437.04	46.77	33.93	-144.70	1,263.84	930.17	988.28	925.11	63.17	15.644	
5,900.00	5,264.14	5,871.66	5,525.45	47.87	34.72	-144.56	1,296.73	955.69	1,009.42	944.76	64.66	15.611	
6,000.00	5,347.84	5,969.38	5,613.85	48.97	35.50	-144.44	1,329.61	981.20	1,030.56	964.41	66.15	15.580	
6,100.00	5,431.54	6,067.09	5,702.26	50.07	36.28	-144.31	1,362.50	1,006.72	1,051.70	984.07	67.64	15.549	
6,200.00	5,515.23	6,164.81	5,790.66	51.17	37.07	-144.19	1,395.39	1,032.24	1,072.86	1,003.72	69.13	15.519	
6,300.00	5,598.93	6,262.52	5,879.07	52.27	37.86	-144.08	1,428.28	1,057.75	1,094.01	1,023.38	70.63	15.490	
6,400.00	5,682.63	6,360.23	5,967.47	53.38	38.64	-143.97	1,461.16	1,083.27	1,115.17	1,043.05	72.12	15.462	
6,500.00	5,766.33	6,457.95	6,055.87	54.48	39.43	-143.86	1,494.05	1,108.79	1,136.33	1,062.71	73.62	15.435	
6,600.00	5,850.02	6,555.66	6,144.28	55.58	40.22	-143.76	1,526.94	1,134.30	1,157.50	1,082.38	75.12	15.409	
6,700.00	5,933.72	6,653.38	6,232.68	56.68	41.00	-143.66	1,559.82	1,159.82	1,178.67	1,102.05	76.62	15.384	
6,800.00	6,017.42	6,751.09	6,321.09	57.79	41.79	-143.57	1,592.71	1,185.33	1,199.84	1,121.72	78.12	15.359	
6,900.00	6,101.12	6,848.80	6,409.49	58.89	42.58	-143.48	1,625.60	1,210.85	1,221.02	1,141.40	79.62	15.335	
7,000.00	6,184.81	6,946.52	6,497.90	59.99	43.37	-143.39	1,658.49	1,236.37	1,242.20	1,161.07	81.13	15.312	
7,100.00	6,268.51	7,044.23	6,586.30	61.10	44.16	-143.30	1,691.37	1,261.88	1,263.38	1,180.75	82.63	15.289	
7,200.00	6,352.21	7,141.95	6,674.71	62.20	44.95	-143.22	1,724.26	1,287.40	1,284.56	1,200.43	84.14	15.268	
7,300.00	6,435.90	7,239.66	6,763.11	63.31	45.74	-143.14	1,757.15	1,312.92	1,305.75	1,220.11	85.64	15.246	
7,400.00	6,519.60	7,337.37	6,851.52	64.41	46.52	-143.07	1,790.04	1,338.43	1,326.94	1,239.79	87.15	15.226	
7,500.00	6,603.30	7,446.56	6,951.30	65.51	47.37	-143.13	1,823.51	1,367.22	1,347.91	1,259.27	88.64	15.206	
7,600.00	6,687.00	7,562.18	7,061.24	66.62	48.04	-144.07	1,838.79	1,398.87	1,367.64	1,278.42	89.22	15.329	
7,700.00	6,770.69	7,666.03	7,160.75	67.72	48.41	-145.69	1,832.71	1,427.44	1,386.84	1,298.01	88.84	15.611	
7,800.00	6,854.39	7,754.26	7,243.32	68.83	48.55	-147.58	1,812.93	1,451.11	1,406.89	1,318.98	87.91	16.004	
7,900.00	6,938.09	7,826.88	7,308.46	69.93	48.55	-149.46	1,786.91	1,469.74	1,429.14	1,342.41	86.73	16.477	
7,933.18	6,965.86	7,847.85	7,326.63	70.30	48.54	-150.05	1,777.82	1,474.93	1,437.20	1,350.88	86.33	16.648	
7,950.00	6,980.00	7,858.09	7,335.38	70.49	48.53	-153.09	1,773.13	1,477.43	1,441.44	1,355.32	86.12	16.737	
8,000.00	7,022.68	7,888.19	7,360.62	71.01	48.49	-162.85	1,758.42	1,484.63	1,454.64	1,369.11	85.53	17.008	
8,050.00	7,066.06	7,917.86	7,384.75	71.51	48.44	-173.52	1,742.59	1,491.51	1,468.57	1,383.60	84.97	17.283	
8,100.00	7,109.82	7,947.19	7,407.80	71.97	48.38	175.27	1,725.68	1,498.08	1,483.03	1,398.59	84.45	17.562	
8,150.00	7,153.63	7,976.24	7,429.78	72.38	48.30	164.01	1,707.74	1,504.33	1,497.84	1,413.90	83.95	17.843	
8,200.00	7,197.14	8,005.07	7,450.69	72.74	48.22	153.22	1,688.83	1,510.28	1,512.82	1,429.33	83.48	18.121	
8,250.00	7,240.04	8,033.71	7,470.55	73.05	48.12	143.31	1,668.97	1,515.92	1,527.77	1,444.72	83.05	18.396	
8,300.00	7,281.99	8,062.21	7,489.33	73.31	48.02	134.47	1,648.22	1,521.24	1,542.54	1,459.89	82.65	18.664	
8,350.00	7,322.67	8,090.58	7,507.03	73.52	47.91	126.77	1,626.61	1,526.26	1,556.95	1,474.67	82.28	18.922	
8,400.00	7,361.77	8,118.86	7,523.62	73.68	47.79	120.12	1,604.20	1,530.95	1,570.88	1,488.92	81.95	19.168	
8,450.00	7,399.01	8,150.00	7,540.64	73.78	47.65	114.39	1,578.58	1,535.75	1,584.16	1,502.58	81.58	19.419	
8,500.00	7,434.08	8,175.22	7,553.42	73.85	47.52	109.57	1,557.14	1,539.35	1,596.68	1,515.27	81.41	19.613	
8,550.00	7,466.74	8,200.00	7,565.09	73.87	47.40	105.47	1,535.53	1,542.63	1,608.32	1,527.02	81.30	19.782	
8,600.00	7,496.72	8,231.40	7,578.57	73.85	47.24	101.94	1,507.43	1,546.41	1,618.97	1,537.93	81.04	19.978	
8,650.00	7,523.80	8,259.44	7,589.34	73.79	47.09	99.00	1,481.71	1,549.42	1,628.54	1,547.62	80.92	20.126	
8,700.00	7,547.77	8,287.48	7,598.89	73.70	46.93	96.57	1,455.49	1,552.08	1,636.95	1,556.11	80.85	20.248	
8,750.00	7,568.45	8,315.50	7,607.19	73.58	46.77	94.58	1,428.83	1,554.37	1,644.14	1,563.31	80.82	20.343	
8,800.00	7,585.69	8,350.00	7,615.67	73.43	46.58	92.99	1,395.47	1,556.70	1,650.05	1,569.42	80.63	20.464	
8,850.00	7,599.35	8,371.54	7,619.98	73.26	46.45	91.82	1,374.40	1,557.86	1,654.58	1,573.67	80.91	20.448	
8,900.00	7,609.33	8,400.00	7,624.51	73.07	46.28	91.00	1,346.33	1,559.07	1,657.77	1,576.75	81.01	20.463	
8,950.00	7,615.55	8,427.60	7,627.61	72.87	46.12	90.53	1,318.92	1,559.87	1,659.56	1,578.37	81.19	20.441	
9,000.00	7,617.97	8,455.64	7,629.46	72.65	45.95	90.39	1,290.95	1,560.31	1,659.94	1,578.56	81.38	20.396	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,006.60	7,618.00	8,459.35	7,629.61	72.62	45.92	90.40	1,287.25	1,560.34	1,659.89	1,578.47	81.41	20.388	
9,059.71	7,618.00	8,504.45	7,630.00	72.39	45.65	90.41	1,251.05	1,560.33	1,659.69	1,578.31	81.38	20.395	
9,100.00	7,618.00	8,535.84	7,630.00	72.22	45.47	90.41	1,210.76	1,560.19	1,659.69	1,578.69	81.00	20.490	
9,200.00	7,618.00	8,635.84	7,630.00	71.80	44.91	90.41	1,110.76	1,559.85	1,659.69	1,579.64	80.04	20.734	
9,300.00	7,618.00	8,735.84	7,630.00	71.41	44.38	90.41	1,010.76	1,559.51	1,659.69	1,580.45	79.24	20.946	
9,400.00	7,618.00	8,835.84	7,630.00	71.04	43.88	90.41	910.76	1,559.17	1,659.69	1,581.11	78.58	21.122	
9,500.00	7,618.00	8,935.84	7,630.00	70.68	43.41	90.41	810.76	1,558.84	1,659.68	1,581.61	78.08	21.258	
9,600.00	7,618.00	9,035.84	7,630.00	70.35	42.97	90.41	710.76	1,558.50	1,659.68	1,581.95	77.73	21.352	
9,700.00	7,618.00	9,135.84	7,630.00	70.04	42.56	90.41	610.76	1,558.16	1,659.68	1,582.14	77.55	21.403	
9,800.00	7,618.00	9,235.84	7,630.00	69.75	42.17	90.41	510.76	1,557.82	1,659.68	1,582.16	77.52	21.409	
9,900.00	7,618.00	9,335.84	7,630.00	69.47	41.81	90.41	410.77	1,557.48	1,659.68	1,582.02	77.66	21.371	
10,000.00	7,618.00	9,435.84	7,630.00	69.22	41.47	90.41	310.77	1,557.14	1,659.68	1,581.72	77.96	21.289	
10,100.00	7,618.00	9,535.84	7,630.00	68.99	41.15	90.41	210.77	1,556.81	1,659.68	1,581.26	78.42	21.165	
10,200.00	7,618.00	9,635.84	7,630.00	68.78	40.86	90.41	110.77	1,556.47	1,659.68	1,580.65	79.03	21.000	
10,300.00	7,618.00	9,735.84	7,630.00	68.59	40.58	90.41	10.77	1,556.13	1,659.68	1,579.88	79.80	20.799	
10,400.00	7,618.00	9,835.84	7,630.00	68.42	40.32	90.41	-89.23	1,555.79	1,659.68	1,578.97	80.71	20.564	
10,500.00	7,618.00	9,935.84	7,630.00	68.28	40.08	90.41	-189.23	1,555.45	1,659.68	1,577.91	81.77	20.298	
10,600.00	7,618.00	10,035.84	7,630.00	68.16	39.84	90.41	-289.23	1,555.12	1,659.68	1,576.72	82.96	20.006	
10,700.00	7,618.00	10,135.84	7,630.00	68.06	40.33	90.41	-389.23	1,554.78	1,659.67	1,575.39	84.28	19.692	
10,800.00	7,618.00	10,235.84	7,630.00	67.99	41.29	90.41	-489.23	1,554.44	1,659.67	1,573.94	85.73	19.359	
10,900.00	7,618.00	10,335.84	7,630.00	67.95	42.31	90.41	-589.23	1,554.10	1,659.67	1,572.37	87.30	19.011	
11,000.00	7,618.00	10,435.84	7,630.00	67.95	43.36	90.41	-689.23	1,553.76	1,659.67	1,570.69	88.98	18.652	
11,100.00	7,618.00	10,535.84	7,630.00	67.97	44.46	90.41	-789.23	1,553.42	1,659.67	1,568.90	90.77	18.284	
11,200.00	7,618.00	10,635.84	7,630.00	68.04	45.58	90.41	-889.23	1,553.09	1,659.67	1,567.01	92.66	17.912	
11,300.00	7,618.00	10,735.84	7,630.00	68.15	46.74	90.41	-989.23	1,552.75	1,659.67	1,565.03	94.64	17.537	
11,400.00	7,618.00	10,835.84	7,630.00	68.30	47.93	90.41	-1,089.23	1,552.41	1,659.67	1,562.96	96.71	17.161	
11,500.00	7,618.00	10,935.84	7,630.00	68.50	49.14	90.41	-1,189.23	1,552.07	1,659.67	1,560.81	98.86	16.788	
11,600.00	7,618.00	11,035.84	7,630.00	68.75	50.39	90.41	-1,289.23	1,551.73	1,659.67	1,558.57	101.09	16.417	
11,700.00	7,618.00	11,135.84	7,630.00	69.06	51.66	90.41	-1,389.22	1,551.39	1,659.67	1,556.27	103.40	16.051	
11,800.00	7,618.00	11,235.84	7,630.00	69.44	52.95	90.41	-1,489.22	1,551.06	1,659.67	1,553.90	105.77	15.692	
11,900.00	7,618.00	11,335.84	7,630.00	69.88	54.26	90.41	-1,589.22	1,550.72	1,659.66	1,551.46	108.20	15.339	
12,000.00	7,618.00	11,435.84	7,630.00	70.39	55.60	90.41	-1,689.22	1,550.38	1,659.66	1,548.97	110.70	14.993	
12,100.00	7,618.00	11,535.84	7,630.00	70.97	56.95	90.41	-1,789.22	1,550.04	1,659.66	1,546.42	113.24	14.656	
12,200.00	7,618.00	11,635.84	7,630.00	71.63	58.33	90.41	-1,889.22	1,549.70	1,659.66	1,543.82	115.84	14.327	
12,300.00	7,618.00	11,735.84	7,630.00	72.35	59.72	90.41	-1,989.22	1,549.36	1,659.66	1,541.17	118.49	14.006	
12,400.00	7,618.00	11,835.84	7,630.00	73.15	61.13	90.41	-2,089.22	1,549.03	1,659.66	1,538.47	121.19	13.695	
12,500.00	7,618.00	11,935.84	7,630.00	74.01	62.56	90.41	-2,189.22	1,548.69	1,659.66	1,535.74	123.92	13.393	
12,600.00	7,618.00	12,035.84	7,630.00	74.93	64.00	90.41	-2,289.22	1,548.35	1,659.66	1,532.96	126.70	13.099	
12,700.00	7,618.00	12,135.84	7,630.00	75.91	65.45	90.41	-2,389.22	1,548.01	1,659.66	1,530.15	129.51	12.815	
12,800.00	7,618.00	12,235.84	7,630.00	76.95	66.92	90.41	-2,489.22	1,547.67	1,659.66	1,527.30	132.36	12.539	
12,900.00	7,618.00	12,335.84	7,630.00	78.04	68.40	90.41	-2,589.22	1,547.33	1,659.66	1,524.42	135.24	12.272	
13,000.00	7,618.00	12,435.84	7,630.00	79.16	69.89	90.41	-2,689.22	1,547.00	1,659.66	1,521.51	138.15	12.014	
13,100.00	7,618.00	12,535.84	7,630.00	80.33	71.39	90.41	-2,789.22	1,546.66	1,659.65	1,518.57	141.09	11.763	
13,200.00	7,618.00	12,635.84	7,630.00	81.54	72.90	90.41	-2,889.22	1,546.32	1,659.65	1,515.60	144.05	11.521	
13,300.00	7,618.00	12,735.84	7,630.00	82.78	74.43	90.41	-2,989.22	1,545.98	1,659.65	1,512.61	147.04	11.287	
13,400.00	7,618.00	12,835.84	7,630.00	84.05	75.96	90.41	-3,089.21	1,545.64	1,659.65	1,509.60	150.05	11.060	
13,500.00	7,618.00	12,935.84	7,630.00	85.35	77.50	90.41	-3,189.21	1,545.30	1,659.65	1,506.56	153.09	10.841	
13,600.00	7,618.00	13,035.84	7,630.00	86.67	79.05	90.41	-3,289.21	1,544.97	1,659.65	1,503.50	156.15	10.629	
13,700.00	7,618.00	13,135.84	7,630.00	88.02	80.61	90.41	-3,389.21	1,544.63	1,659.65	1,500.43	159.22	10.423	
13,800.00	7,618.00	13,235.84	7,630.00	89.38	82.18	90.41	-3,489.21	1,544.29	1,659.65	1,497.33	162.32	10.225	
13,900.00	7,618.00	13,335.84	7,630.00	90.77	83.75	90.41	-3,589.21	1,543.95	1,659.65	1,494.22	165.43	10.032	
14,000.00	7,618.00	13,435.84	7,630.00	92.17	85.33	90.41	-3,689.21	1,543.61	1,659.65	1,491.09	168.56	9.846	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,618.00	13,535.84	7,630.00	93.59	86.91	90.41	-3,789.21	1,543.27	1,659.65	1,487.94	171.71	9.666	
14,200.00	7,618.00	13,635.84	7,630.00	95.02	88.51	90.41	-3,889.21	1,542.94	1,659.65	1,484.78	174.87	9.491	
14,300.00	7,618.00	13,735.84	7,630.00	96.47	90.11	90.41	-3,989.21	1,542.60	1,659.64	1,481.60	178.04	9.322	
14,400.00	7,618.00	13,835.84	7,630.00	97.93	91.71	90.41	-4,089.21	1,542.26	1,659.64	1,478.42	181.23	9.158	
14,500.00	7,618.00	13,935.84	7,630.00	99.41	93.32	90.41	-4,189.21	1,541.92	1,659.64	1,475.21	184.43	8.999	
14,600.00	7,618.00	14,035.84	7,630.00	100.89	94.93	90.41	-4,289.21	1,541.58	1,659.64	1,472.00	187.64	8.845	
14,700.00	7,618.00	14,135.84	7,630.00	102.38	96.55	90.41	-4,389.21	1,541.24	1,659.64	1,468.78	190.86	8.695	
14,800.00	7,618.00	14,235.84	7,630.00	103.89	98.18	90.41	-4,489.21	1,540.91	1,659.64	1,465.54	194.10	8.551	
14,900.00	7,618.00	14,335.84	7,630.00	105.40	99.81	90.41	-4,589.21	1,540.57	1,659.64	1,462.30	197.34	8.410	
15,000.00	7,618.00	14,435.84	7,630.00	106.92	101.44	90.41	-4,689.21	1,540.23	1,659.64	1,459.04	200.60	8.274	
15,100.00	7,618.00	14,535.84	7,630.00	108.45	103.08	90.41	-4,789.21	1,539.89	1,659.64	1,455.78	203.86	8.141	
15,200.00	7,618.00	14,635.84	7,630.00	109.99	104.72	90.41	-4,889.20	1,539.55	1,659.64	1,452.50	207.13	8.012	
15,300.00	7,618.00	14,735.84	7,630.00	111.54	106.36	90.41	-4,989.20	1,539.22	1,659.64	1,449.22	210.41	7.887	
15,400.00	7,618.00	14,835.84	7,630.00	113.09	108.01	90.41	-5,089.20	1,538.88	1,659.63	1,445.93	213.70	7.766	
15,500.00	7,618.00	14,935.84	7,630.00	114.65	109.66	90.41	-5,189.20	1,538.54	1,659.63	1,442.63	217.00	7.648	
15,600.00	7,618.00	15,035.84	7,630.00	116.21	111.32	90.41	-5,289.20	1,538.20	1,659.63	1,439.33	220.30	7.533	
15,700.00	7,618.00	15,135.84	7,630.00	117.78	112.98	90.41	-5,389.20	1,537.86	1,659.63	1,436.02	223.61	7.422	
15,800.00	7,618.00	15,235.84	7,630.00	119.36	114.64	90.41	-5,489.20	1,537.52	1,659.63	1,432.70	226.93	7.313	
15,900.00	7,618.00	15,335.84	7,630.00	120.94	116.30	90.41	-5,589.20	1,537.19	1,659.63	1,429.37	230.26	7.208	
16,000.00	7,618.00	15,435.84	7,630.00	122.53	117.97	90.41	-5,689.20	1,536.85	1,659.63	1,426.04	233.59	7.105	
16,100.00	7,618.00	15,535.84	7,630.00	124.12	119.64	90.41	-5,789.20	1,536.51	1,659.63	1,422.70	236.92	7.005	
16,200.00	7,618.00	15,635.84	7,630.00	125.72	121.31	90.41	-5,889.20	1,536.17	1,659.63	1,419.36	240.27	6.907	
16,300.00	7,618.00	15,735.84	7,630.00	127.32	122.99	90.41	-5,989.20	1,535.83	1,659.63	1,416.01	243.61	6.813	
16,400.00	7,618.00	15,835.84	7,630.00	128.93	124.66	90.41	-6,089.20	1,535.49	1,659.63	1,412.66	246.97	6.720	
16,500.00	7,618.00	15,935.84	7,630.00	130.54	126.34	90.41	-6,189.20	1,535.16	1,659.63	1,409.30	250.32	6.630	
16,600.00	7,618.00	16,035.84	7,630.00	132.15	128.02	90.41	-6,289.20	1,534.82	1,659.62	1,405.94	253.69	6.542	
16,700.00	7,618.00	16,135.84	7,630.00	133.77	129.71	90.41	-6,389.20	1,534.48	1,659.62	1,402.57	257.05	6.456	
16,800.00	7,618.00	16,235.84	7,630.00	135.39	131.39	90.41	-6,489.20	1,534.14	1,659.62	1,399.20	260.43	6.373	
16,900.00	7,618.00	16,335.84	7,630.00	137.01	133.08	90.41	-6,589.19	1,533.80	1,659.62	1,395.82	263.80	6.291	
17,000.00	7,618.00	16,435.84	7,630.00	138.64	134.77	90.41	-6,689.19	1,533.46	1,659.62	1,392.44	267.18	6.212	
17,100.00	7,618.00	16,535.84	7,630.00	140.27	136.46	90.41	-6,789.19	1,533.13	1,659.62	1,389.06	270.57	6.134	
17,200.00	7,618.00	16,635.84	7,630.00	141.91	138.16	90.41	-6,889.19	1,532.79	1,659.62	1,385.67	273.95	6.058	
17,300.00	7,618.00	16,735.84	7,630.00	143.55	139.85	90.41	-6,989.19	1,532.45	1,659.62	1,382.27	277.34	5.984	
17,400.00	7,618.00	16,835.84	7,630.00	145.19	141.55	90.41	-7,089.19	1,532.11	1,659.62	1,378.88	280.74	5.912	
17,500.00	7,618.00	16,935.84	7,630.00	146.83	143.25	90.41	-7,189.19	1,531.77	1,659.62	1,375.48	284.14	5.841	
17,600.00	7,618.00	17,035.84	7,630.00	148.48	144.95	90.41	-7,289.19	1,531.43	1,659.62	1,372.08	287.54	5.772	
17,700.00	7,618.00	17,135.84	7,630.00	150.13	146.65	90.41	-7,389.19	1,531.10	1,659.62	1,368.67	290.94	5.704	
17,800.00	7,618.00	17,235.84	7,630.00	151.78	148.35	90.41	-7,489.19	1,530.76	1,659.61	1,365.26	294.35	5.638	
17,900.00	7,618.00	17,335.84	7,630.00	153.43	150.06	90.41	-7,589.19	1,530.42	1,659.61	1,361.85	297.76	5.574	
18,000.00	7,618.00	17,435.84	7,630.00	155.09	151.76	90.41	-7,689.19	1,530.08	1,659.61	1,358.44	301.18	5.510	
18,100.00	7,618.00	17,535.84	7,630.00	156.75	153.47	90.41	-7,789.19	1,529.74	1,659.61	1,355.02	304.59	5.449	
18,200.00	7,618.00	17,635.84	7,630.00	158.41	155.18	90.41	-7,889.19	1,529.40	1,659.61	1,351.60	308.01	5.388	
18,300.00	7,618.00	17,735.84	7,630.00	160.07	156.89	90.41	-7,989.19	1,529.07	1,659.61	1,348.18	311.43	5.329	
18,400.00	7,618.00	17,835.84	7,630.00	161.74	158.60	90.41	-8,089.19	1,528.73	1,659.61	1,344.75	314.86	5.271	
18,500.00	7,618.00	17,935.84	7,630.00	163.41	160.31	90.41	-8,189.19	1,528.39	1,659.61	1,341.32	318.28	5.214	
18,600.00	7,618.00	18,035.84	7,630.00	165.08	162.02	90.41	-8,289.19	1,528.05	1,659.61	1,337.90	321.71	5.159	
18,700.00	7,618.00	18,135.84	7,630.00	166.75	163.74	90.41	-8,389.18	1,527.71	1,659.61	1,334.46	325.14	5.104	
18,711.30	7,618.00	18,147.14	7,630.00	166.94	163.93	90.41	-8,400.49	1,527.67	1,659.61	1,334.08	325.53	5.098	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	16,236.00	7,569.74	0.00	158.98	48.98	1,787.82	2,055.43	8,189.13				
100.00	100.00	16,236.00	7,569.74	0.13	158.98	48.98	1,787.82	2,055.43	8,094.89	8,015.33	79.57	101.739	
200.00	200.00	16,236.00	7,569.74	0.49	158.98	48.98	1,787.82	2,055.43	8,000.79	7,921.06	79.73	100.342	
300.00	300.00	16,236.00	7,569.74	0.85	158.98	48.98	1,787.82	2,055.43	7,906.84	7,826.92	79.92	98.933	
400.00	400.00	16,236.00	7,569.74	1.21	158.98	48.98	1,787.82	2,055.43	7,813.04	7,732.92	80.13	97.510	
500.00	500.00	16,236.00	7,569.74	1.57	158.98	48.98	1,787.82	2,055.43	7,719.40	7,639.05	80.35	96.076	
600.00	600.00	16,236.00	7,569.74	1.93	158.98	48.98	1,787.82	2,055.43	7,625.91	7,545.33	80.59	94.631	
700.00	700.00	16,236.00	7,569.74	2.29	158.98	48.98	1,787.82	2,055.43	7,532.59	7,451.75	80.84	93.176	
800.00	800.00	16,236.00	7,569.74	2.64	158.98	48.98	1,787.82	2,055.43	7,439.45	7,358.33	81.12	91.713	
900.00	900.00	16,236.00	7,569.74	3.00	158.98	48.98	1,787.82	2,055.43	7,346.49	7,265.08	81.41	90.243	
1,000.00	999.98	16,236.00	7,569.74	3.36	158.98	-8.99	1,787.82	2,055.43	7,253.08	7,171.37	81.71	88.763	
1,100.00	1,099.84	16,236.00	7,569.74	3.71	158.98	-9.93	1,787.82	2,055.43	7,158.66	7,076.64	82.02	87.284	
1,200.00	1,199.45	16,236.00	7,569.74	4.07	158.98	-11.09	1,787.82	2,055.43	7,063.29	6,980.99	82.30	85.824	
1,300.00	1,298.70	16,236.00	7,569.74	4.44	158.98	-12.54	1,787.82	2,055.43	6,967.05	6,884.49	82.56	84.384	
1,400.00	1,397.47	16,236.00	7,569.74	4.82	158.98	-14.40	1,787.82	2,055.43	6,870.04	6,787.23	82.80	82.967	
1,500.00	1,495.62	16,236.00	7,569.74	5.22	158.98	-16.88	1,787.82	2,055.43	6,772.33	6,689.31	83.02	81.573	
1,600.00	1,593.06	16,236.00	7,569.74	5.65	158.98	-20.31	1,787.82	2,055.43	6,674.02	6,590.80	83.21	80.206	
1,700.00	1,689.64	16,236.00	7,569.74	6.11	158.98	-25.31	1,787.82	2,055.43	6,575.20	6,491.82	83.37	78.865	
1,800.00	1,785.27	16,236.00	7,569.74	6.61	158.98	-33.12	1,787.82	2,055.43	6,475.97	6,392.47	83.50	77.553	
1,900.00	1,879.82	16,236.00	7,569.74	7.15	158.98	-46.20	1,787.82	2,055.43	6,376.44	6,292.84	83.60	76.270	
2,000.00	1,973.17	16,236.00	7,569.74	7.73	158.98	-68.56	1,787.82	2,055.43	6,276.73	6,193.06	83.67	75.019	
2,100.00	2,065.21	16,236.00	7,569.74	8.37	158.98	-99.38	1,787.82	2,055.43	6,176.93	6,093.23	83.70	73.798	
2,200.00	2,155.84	16,236.00	7,569.74	9.07	158.98	-125.52	1,787.82	2,055.43	6,077.17	5,993.48	83.70	72.610	
2,300.00	2,244.94	16,236.00	7,569.74	9.82	158.98	-141.40	1,787.82	2,055.43	5,977.59	5,893.93	83.66	71.455	
2,400.00	2,332.39	16,236.00	7,569.74	10.64	158.98	-150.68	1,787.82	2,055.43	5,878.31	5,794.73	83.58	70.333	
2,500.00	2,418.11	16,236.00	7,569.74	11.53	158.98	-156.48	1,787.82	2,055.43	5,779.47	5,696.01	83.47	69.244	
2,558.91	2,467.74	16,236.00	7,569.74	12.08	158.98	-158.94	1,787.82	2,055.43	5,721.52	5,638.14	83.38	68.619	
2,600.00	2,502.13	16,236.00	7,569.74	12.47	158.98	-158.94	1,787.82	2,055.43	5,681.17	5,597.85	83.32	68.185	
2,700.00	2,585.83	16,236.00	7,569.74	13.45	158.98	-158.94	1,787.82	2,055.43	5,583.03	5,499.86	83.18	67.122	
2,800.00	2,669.53	16,236.00	7,569.74	14.44	158.98	-158.94	1,787.82	2,055.43	5,484.96	5,401.93	83.04	66.054	
2,900.00	2,753.22	16,236.00	7,569.74	15.46	158.98	-158.94	1,787.82	2,055.43	5,386.97	5,304.07	82.90	64.983	
3,000.00	2,836.92	16,236.00	7,569.74	16.48	158.98	-158.94	1,787.82	2,055.43	5,289.04	5,206.28	82.76	63.906	
3,100.00	2,920.62	16,236.00	7,569.74	17.52	158.98	-158.94	1,787.82	2,055.43	5,191.20	5,108.57	82.63	62.826	
3,200.00	3,004.32	16,236.00	7,569.74	18.56	158.98	-158.94	1,787.82	2,055.43	5,093.44	5,010.94	82.50	61.741	
3,300.00	3,088.01	16,236.00	7,569.74	19.61	158.98	-158.94	1,787.82	2,055.43	4,995.77	4,913.40	82.37	60.653	
3,400.00	3,171.71	16,236.00	7,569.74	20.67	158.98	-158.94	1,787.82	2,055.43	4,898.19	4,815.95	82.24	59.560	
3,500.00	3,255.41	16,236.00	7,569.74	21.73	158.98	-158.94	1,787.82	2,055.43	4,800.71	4,718.60	82.11	58.464	
3,600.00	3,339.10	16,236.00	7,569.74	22.80	158.98	-158.94	1,787.82	2,055.43	4,703.34	4,621.35	81.99	57.364	
3,700.00	3,422.80	16,236.00	7,569.74	23.87	158.98	-158.94	1,787.82	2,055.43	4,606.08	4,524.21	81.87	56.260	
3,800.00	3,506.50	16,236.00	7,569.74	24.94	158.98	-158.94	1,787.82	2,055.43	4,508.94	4,427.19	81.75	55.153	
3,900.00	3,590.20	16,236.00	7,569.74	26.02	158.98	-158.94	1,787.82	2,055.43	4,411.93	4,330.29	81.64	54.042	
4,000.00	3,673.89	16,236.00	7,569.74	27.10	158.98	-158.94	1,787.82	2,055.43	4,315.06	4,233.53	81.53	52.927	
4,100.00	3,757.59	16,236.00	7,569.74	28.18	158.98	-158.94	1,787.82	2,055.43	4,218.33	4,136.91	81.42	51.809	
4,200.00	3,841.29	16,236.00	7,569.74	29.26	158.98	-158.94	1,787.82	2,055.43	4,121.75	4,040.44	81.32	50.686	
4,300.00	3,924.99	16,236.00	7,569.74	30.35	158.98	-158.94	1,787.82	2,055.43	4,025.35	3,944.13	81.22	49.560	
4,400.00	4,008.68	16,236.00	7,569.74	31.44	158.98	-158.94	1,787.82	2,055.43	3,929.12	3,847.99	81.13	48.430	
4,500.00	4,092.38	16,236.00	7,569.74	32.52	158.98	-158.94	1,787.82	2,055.43	3,833.09	3,752.04	81.05	47.295	
4,600.00	4,176.08	16,236.00	7,569.74	33.62	158.98	-158.94	1,787.82	2,055.43	3,737.27	3,656.29	80.97	46.155	
4,700.00	4,259.77	16,236.00	7,569.74	34.71	158.98	-158.94	1,787.82	2,055.43	3,641.67	3,560.76	80.91	45.011	
4,800.00	4,343.47	16,236.00	7,569.74	35.80	158.98	-158.94	1,787.82	2,055.43	3,546.31	3,465.45	80.85	43.860	
4,900.00	4,427.17	16,236.00	7,569.74	36.89	158.98	-158.94	1,787.82	2,055.43	3,451.21	3,370.40	80.82	42.704	
5,000.00	4,510.87	16,236.00	7,569.74	37.99	158.98	-158.94	1,787.82	2,055.43	3,356.40	3,275.61	80.80	41.542	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	16,236.00	7,569.74	39.08	158.98	-158.94	1,787.82	2,055.43	3,261.90	3,181.11	80.80	40.372	
5,200.00	4,678.26	16,236.00	7,569.74	40.18	158.98	-158.94	1,787.82	2,055.43	3,167.74	3,086.92	80.82	39.194	
5,300.00	4,761.96	16,236.00	7,569.74	41.28	158.98	-158.94	1,787.82	2,055.43	3,073.95	2,993.07	80.88	38.007	
5,400.00	4,845.66	16,236.00	7,569.74	42.37	158.98	-158.94	1,787.82	2,055.43	2,980.56	2,899.59	80.97	36.810	
5,500.00	4,929.35	16,236.00	7,569.74	43.47	158.98	-158.94	1,787.82	2,055.43	2,887.61	2,806.51	81.11	35.603	
5,600.00	5,013.05	16,236.00	7,569.74	44.57	158.98	-158.94	1,787.82	2,055.43	2,795.15	2,713.86	81.30	34.383	
5,700.00	5,096.75	16,236.00	7,569.74	45.67	158.98	-158.94	1,787.82	2,055.43	2,703.23	2,621.68	81.55	33.149	
5,800.00	5,180.45	16,236.00	7,569.74	46.77	158.98	-158.94	1,787.82	2,055.43	2,611.90	2,530.03	81.88	31.901	
5,900.00	5,264.14	16,236.00	7,569.74	47.87	158.98	-158.94	1,787.82	2,055.43	2,521.23	2,438.94	82.29	30.637	
6,000.00	5,347.84	16,236.00	7,569.74	48.97	158.98	-158.94	1,787.82	2,055.43	2,431.29	2,348.47	82.82	29.355	
6,100.00	5,431.54	16,236.00	7,569.74	50.07	158.98	-158.94	1,787.82	2,055.43	2,342.17	2,258.68	83.48	28.055	
6,200.00	5,515.23	16,236.00	7,569.74	51.17	158.98	-158.94	1,787.82	2,055.43	2,253.96	2,169.65	84.30	26.736	
6,300.00	5,598.93	16,236.00	7,569.74	52.27	158.98	-158.94	1,787.82	2,055.43	2,166.77	2,081.46	85.31	25.398	
6,400.00	5,682.63	16,236.00	7,569.74	53.38	158.98	-158.94	1,787.82	2,055.43	2,080.74	1,994.19	86.55	24.041	
6,500.00	5,766.33	16,236.00	7,569.74	54.48	158.98	-158.94	1,787.82	2,055.43	1,996.01	1,907.95	88.05	22.668	
6,600.00	5,850.02	16,236.00	7,569.74	55.58	158.98	-158.94	1,787.82	2,055.43	1,912.75	1,822.88	89.87	21.282	
6,700.00	5,933.72	16,236.00	7,569.74	56.68	158.98	-158.94	1,787.82	2,055.43	1,831.17	1,739.10	92.07	19.889	
6,800.00	6,017.42	16,236.00	7,569.74	57.79	158.98	-158.94	1,787.82	2,055.43	1,751.50	1,656.80	94.70	18.496	
6,900.00	6,101.12	16,236.00	7,569.74	58.89	158.98	-158.94	1,787.82	2,055.43	1,674.02	1,576.19	97.82	17.113	
7,000.00	6,184.81	16,236.00	7,569.74	59.99	158.98	-158.94	1,787.82	2,055.43	1,599.03	1,497.52	101.51	15.752	
7,100.00	6,268.51	16,236.00	7,569.74	61.10	158.98	-158.94	1,787.82	2,055.43	1,526.92	1,421.10	105.82	14.429	
7,200.00	6,352.21	16,236.00	7,569.74	62.20	158.98	-158.94	1,787.82	2,055.43	1,458.10	1,347.30	110.80	13.160	
7,300.00	6,435.90	16,236.00	7,569.74	63.31	158.98	-158.94	1,787.82	2,055.43	1,393.06	1,276.58	116.49	11.959	
7,400.00	6,519.60	16,236.00	7,569.74	64.41	158.98	-158.94	1,787.82	2,055.43	1,332.37	1,209.48	122.88	10.843	
7,500.00	6,603.30	16,236.00	7,569.74	65.51	158.98	-158.94	1,787.82	2,055.43	1,276.63	1,146.68	129.95	9.824	
7,600.00	6,687.00	16,236.00	7,569.74	66.62	158.98	-158.94	1,787.82	2,055.43	1,226.52	1,088.92	137.60	8.914	
7,700.00	6,770.69	16,238.74	7,569.73	67.72	159.03	-159.08	1,785.08	2,055.38	1,182.76	1,037.11	145.65	8.120	
7,800.00	6,854.39	16,207.83	7,569.89	68.83	158.49	-157.53	1,815.98	2,055.94	1,145.73	991.47	154.26	7.427	
7,900.00	6,938.09	16,176.60	7,570.05	69.93	157.95	-155.96	1,847.21	2,056.49	1,115.61	952.59	163.01	6.844	
7,933.18	6,965.86	16,165.57	7,570.10	70.30	157.76	-155.40	1,858.24	2,056.69	1,107.23	941.33	165.90	6.674	
7,950.00	6,980.00	16,160.25	7,570.12	70.49	157.66	-157.05	1,863.56	2,056.79	1,103.28	935.92	167.36	6.592	
8,000.00	7,022.68	16,147.53	7,570.16	71.01	157.44	-162.88	1,876.28	2,057.02	1,092.75	921.02	171.73	6.363	
8,050.00	7,066.06	16,139.47	7,570.17	71.51	157.30	-170.03	1,884.33	2,057.16	1,084.21	908.15	176.06	6.158	
8,100.00	7,109.82	16,136.08	7,570.18	71.97	157.24	-178.21	1,887.72	2,057.23	1,077.87	897.61	180.26	5.980	
8,150.00	7,153.63	16,137.34	7,570.18	72.38	157.26	173.07	1,886.47	2,057.20	1,073.86	889.61	184.26	5.828	
8,200.00	7,197.14	16,143.18	7,570.17	72.74	157.37	164.29	1,880.63	2,057.10	1,072.23	884.24	187.99	5.704	
8,209.86	7,205.66	16,144.86	7,570.16	72.80	157.40	162.59	1,878.94	2,057.07	1,072.18	883.50	188.68	5.682	CC
8,250.00	7,240.04	16,153.50	7,570.14	73.05	157.55	155.86	1,870.30	2,056.91	1,072.92	881.52	191.39	5.606	
8,300.00	7,281.99	16,168.20	7,570.09	73.31	157.80	148.00	1,855.61	2,056.64	1,075.80	881.36	194.45	5.533	ES
8,350.00	7,322.67	16,187.10	7,569.99	73.52	158.13	140.77	1,836.71	2,056.31	1,080.67	883.54	197.13	5.482	
8,400.00	7,361.77	16,208.89	7,569.88	73.68	158.51	134.21	1,814.92	2,055.92	1,087.27	887.81	199.47	5.451	
8,450.00	7,399.01	16,234.76	7,569.75	73.78	158.96	128.20	1,789.05	2,055.45	1,095.29	893.83	201.45	5.437	
8,500.00	7,434.08	16,236.00	7,569.74	73.85	158.98	123.86	1,787.82	2,055.43	1,104.73	901.14	203.59	5.426	SF
8,550.00	7,466.74	16,236.00	7,569.74	73.87	158.98	119.99	1,787.82	2,055.43	1,115.82	910.42	205.39	5.433	
8,600.00	7,496.72	16,236.00	7,569.74	73.85	158.98	116.45	1,787.82	2,055.43	1,128.42	921.56	206.85	5.455	
8,650.00	7,523.80	16,236.00	7,569.74	73.79	158.98	113.17	1,787.82	2,055.43	1,142.39	934.42	207.96	5.493	
8,700.00	7,547.77	16,236.00	7,569.74	73.70	158.98	110.11	1,787.82	2,055.43	1,157.57	948.83	208.74	5.546	
8,750.00	7,568.45	16,236.00	7,569.74	73.58	158.98	107.24	1,787.82	2,055.43	1,173.81	964.63	209.18	5.611	
8,800.00	7,585.69	16,236.00	7,569.74	73.43	158.98	104.53	1,787.82	2,055.43	1,190.95	981.63	209.32	5.690	
8,850.00	7,599.35	16,236.00	7,569.74	73.26	158.98	101.99	1,787.82	2,055.43	1,208.81	999.66	209.15	5.780	
8,900.00	7,609.33	16,236.00	7,569.74	73.07	158.98	99.61	1,787.82	2,055.43	1,227.23	1,018.53	208.70	5.880	
8,950.00	7,615.55	16,236.00	7,569.74	72.87	158.98	97.41	1,787.82	2,055.43	1,246.05	1,038.07	207.98	5.991	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	16,236.00	7,569.74	72.65	158.98	95.38	1,787.82	2,055.43	1,265.11	1,058.10	207.01	6.111	
9,006.60	7,618.00	16,236.00	7,569.74	72.62	158.98	95.13	1,787.82	2,055.43	1,267.64	1,060.77	206.87	6.128	
9,100.00	7,618.00	16,236.00	7,569.74	72.22	158.98	95.13	1,787.82	2,055.43	1,306.25	1,101.78	204.47	6.389	
9,200.00	7,618.00	16,236.00	7,569.74	71.80	158.98	95.13	1,787.82	2,055.43	1,353.53	1,152.22	201.31	6.724	
9,300.00	7,618.00	16,236.00	7,569.74	71.41	158.98	95.13	1,787.82	2,055.43	1,406.33	1,208.62	197.71	7.113	
9,400.00	7,618.00	16,236.00	7,569.74	71.04	158.98	95.13	1,787.82	2,055.43	1,464.08	1,270.25	193.83	7.554	
9,500.00	7,618.00	16,236.00	7,569.74	70.68	158.98	95.13	1,787.82	2,055.43	1,526.19	1,336.41	189.78	8.042	
9,600.00	7,618.00	16,236.00	7,569.74	70.35	158.98	95.13	1,787.82	2,055.43	1,592.17	1,406.49	185.68	8.575	
9,700.00	7,618.00	16,236.00	7,569.74	70.04	158.98	95.13	1,787.82	2,055.43	1,661.55	1,479.94	181.61	9.149	
9,800.00	7,618.00	16,236.00	7,569.74	69.75	158.98	95.13	1,787.82	2,055.43	1,733.93	1,556.32	177.61	9.763	
9,900.00	7,618.00	16,236.00	7,569.74	69.47	158.98	95.13	1,787.82	2,055.43	1,808.93	1,635.20	173.73	10.412	
10,000.00	7,618.00	16,236.00	7,569.74	69.22	158.98	95.13	1,787.82	2,055.43	1,886.26	1,716.26	170.00	11.096	
10,100.00	7,618.00	16,236.00	7,569.74	68.99	158.98	95.13	1,787.82	2,055.43	1,965.64	1,799.21	166.43	11.811	
10,200.00	7,618.00	16,236.00	7,569.74	68.78	158.98	95.13	1,787.82	2,055.43	2,046.82	1,883.79	163.03	12.555	
10,300.00	7,618.00	16,236.00	7,569.74	68.59	158.98	95.13	1,787.82	2,055.43	2,129.60	1,969.81	159.80	13.327	
10,400.00	7,618.00	16,236.00	7,569.74	68.42	158.98	95.13	1,787.82	2,055.43	2,213.81	2,057.07	156.74	14.124	
10,500.00	7,618.00	16,236.00	7,569.74	68.28	158.98	95.13	1,787.82	2,055.43	2,299.28	2,145.43	153.85	14.945	
10,600.00	7,618.00	16,236.00	7,569.74	68.16	158.98	95.13	1,787.82	2,055.43	2,385.88	2,234.76	151.12	15.788	
10,700.00	7,618.00	16,236.00	7,569.74	68.06	158.98	95.13	1,787.82	2,055.43	2,473.50	2,324.95	148.55	16.652	
10,800.00	7,618.00	16,236.00	7,569.74	67.99	158.98	95.13	1,787.82	2,055.43	2,562.02	2,415.90	146.11	17.534	
10,900.00	7,618.00	16,236.00	7,569.74	67.95	158.98	95.13	1,787.82	2,055.43	2,651.35	2,507.53	143.82	18.435	
11,000.00	7,618.00	16,236.00	7,569.74	67.95	158.98	95.13	1,787.82	2,055.43	2,741.43	2,599.77	141.66	19.352	
11,100.00	7,618.00	16,236.00	7,569.74	67.97	158.98	95.13	1,787.82	2,055.43	2,832.17	2,692.55	139.62	20.285	
11,200.00	7,618.00	16,236.00	7,569.74	68.04	158.98	95.13	1,787.82	2,055.43	2,923.51	2,785.82	137.69	21.233	
11,300.00	7,618.00	16,236.00	7,569.74	68.15	158.98	95.13	1,787.82	2,055.43	3,015.40	2,879.54	135.87	22.194	
11,400.00	7,618.00	16,236.00	7,569.74	68.30	158.98	95.13	1,787.82	2,055.43	3,107.80	2,973.65	134.15	23.167	
11,500.00	7,618.00	16,236.00	7,569.74	68.50	158.98	95.13	1,787.82	2,055.43	3,200.65	3,068.13	132.52	24.152	
11,600.00	7,618.00	16,236.00	7,569.74	68.75	158.98	95.13	1,787.82	2,055.43	3,293.92	3,162.94	130.98	25.149	
11,700.00	7,618.00	16,236.00	7,569.74	69.06	158.98	95.13	1,787.82	2,055.43	3,387.57	3,258.05	129.52	26.155	
11,800.00	7,618.00	16,236.00	7,569.74	69.44	158.98	95.13	1,787.82	2,055.43	3,481.58	3,353.44	128.14	27.171	
11,900.00	7,618.00	16,236.00	7,569.74	69.88	158.98	95.13	1,787.82	2,055.43	3,575.91	3,449.08	126.83	28.195	
12,000.00	7,618.00	16,236.00	7,569.74	70.39	158.98	95.13	1,787.82	2,055.43	3,670.54	3,544.96	125.58	29.228	
12,100.00	7,618.00	16,236.00	7,569.74	70.97	158.98	95.13	1,787.82	2,055.43	3,765.45	3,641.05	124.40	30.269	
12,200.00	7,618.00	16,236.00	7,569.74	71.63	158.98	95.13	1,787.82	2,055.43	3,860.62	3,737.34	123.28	31.316	
12,300.00	7,618.00	16,236.00	7,569.74	72.35	158.98	95.13	1,787.82	2,055.43	3,956.02	3,833.81	122.21	32.371	
12,400.00	7,618.00	16,236.00	7,569.74	73.15	158.98	95.13	1,787.82	2,055.43	4,051.65	3,930.45	121.19	33.431	
12,500.00	7,618.00	16,236.00	7,569.74	74.01	158.98	95.13	1,787.82	2,055.43	4,147.48	4,027.25	120.23	34.497	
12,600.00	7,618.00	16,236.00	7,569.74	74.93	158.98	95.13	1,787.82	2,055.43	4,243.50	4,124.20	119.30	35.569	
12,700.00	7,618.00	16,236.00	7,569.74	75.91	158.98	95.13	1,787.82	2,055.43	4,339.71	4,221.28	118.42	36.645	
12,800.00	7,618.00	16,236.00	7,569.74	76.95	158.98	95.13	1,787.82	2,055.43	4,436.08	4,318.49	117.59	37.726	
12,900.00	7,618.00	16,236.00	7,569.74	78.04	158.98	95.13	1,787.82	2,055.43	4,532.61	4,415.83	116.78	38.812	
13,000.00	7,618.00	16,236.00	7,569.74	79.16	158.98	95.13	1,787.82	2,055.43	4,629.29	4,513.27	116.02	39.901	
13,100.00	7,618.00	16,236.00	7,569.74	80.33	158.98	95.13	1,787.82	2,055.43	4,726.10	4,610.81	115.29	40.994	
13,200.00	7,618.00	16,236.00	7,569.74	81.54	158.98	95.13	1,787.82	2,055.43	4,823.05	4,708.46	114.59	42.090	
13,300.00	7,618.00	16,236.00	7,569.74	82.78	158.98	95.13	1,787.82	2,055.43	4,920.12	4,806.20	113.92	43.190	
13,400.00	7,618.00	16,236.00	7,569.74	84.05	158.98	95.13	1,787.82	2,055.43	5,017.30	4,904.02	113.28	44.292	
13,500.00	7,618.00	16,236.00	7,569.74	85.35	158.98	95.13	1,787.82	2,055.43	5,114.59	5,001.92	112.66	45.397	
13,600.00	7,618.00	16,236.00	7,569.74	86.67	158.98	95.13	1,787.82	2,055.43	5,211.98	5,099.91	112.08	46.504	
13,700.00	7,618.00	16,236.00	7,569.74	88.02	158.98	95.13	1,787.82	2,055.43	5,309.47	5,197.96	111.51	47.614	
13,800.00	7,618.00	16,236.00	7,569.74	89.38	158.98	95.13	1,787.82	2,055.43	5,407.06	5,296.09	110.97	48.725	
13,900.00	7,618.00	16,236.00	7,569.74	90.77	158.98	95.13	1,787.82	2,055.43	5,504.72	5,394.27	110.45	49.839	
14,000.00	7,618.00	16,236.00	7,569.74	92.17	158.98	95.13	1,787.82	2,055.43	5,602.48	5,492.52	109.95	50.954	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,618.00	16,236.00	7,569.74	93.59	158.98	95.13	1,787.82	2,055.43	5,700.31	5,590.83	109.47	52.071	
14,200.00	7,618.00	16,236.00	7,569.74	95.02	158.98	95.13	1,787.82	2,055.43	5,798.21	5,689.20	109.01	53.189	
14,300.00	7,618.00	16,236.00	7,569.74	96.47	158.98	95.13	1,787.82	2,055.43	5,896.18	5,787.61	108.57	54.308	
14,400.00	7,618.00	16,236.00	7,569.74	97.93	158.98	95.13	1,787.82	2,055.43	5,994.22	5,886.08	108.14	55.428	
14,500.00	7,618.00	16,236.00	7,569.74	99.41	158.98	95.13	1,787.82	2,055.43	6,092.33	5,984.59	107.73	56.549	
14,600.00	7,618.00	16,236.00	7,569.74	100.89	158.98	95.13	1,787.82	2,055.43	6,190.49	6,083.15	107.34	57.672	
14,700.00	7,618.00	16,236.00	7,569.74	102.38	158.98	95.13	1,787.82	2,055.43	6,288.72	6,181.75	106.96	58.794	
14,800.00	7,618.00	16,236.00	7,569.74	103.89	158.98	95.13	1,787.82	2,055.43	6,386.99	6,280.40	106.60	59.918	
14,900.00	7,618.00	16,236.00	7,569.74	105.40	158.98	95.13	1,787.82	2,055.43	6,485.32	6,379.08	106.24	61.042	
15,000.00	7,618.00	16,236.00	7,569.74	106.92	158.98	95.13	1,787.82	2,055.43	6,583.71	6,477.80	105.90	62.166	
15,100.00	7,618.00	16,236.00	7,569.74	108.45	158.98	95.13	1,787.82	2,055.43	6,682.13	6,576.56	105.58	63.291	
15,200.00	7,618.00	16,236.00	7,569.74	109.99	158.98	95.13	1,787.82	2,055.43	6,780.61	6,675.35	105.26	64.416	
15,300.00	7,618.00	16,236.00	7,569.74	111.54	158.98	95.13	1,787.82	2,055.43	6,879.13	6,774.17	104.96	65.541	
15,400.00	7,618.00	16,236.00	7,569.74	113.09	158.98	95.13	1,787.82	2,055.43	6,977.69	6,873.02	104.67	66.666	
15,500.00	7,618.00	16,236.00	7,569.74	114.65	158.98	95.13	1,787.82	2,055.43	7,076.29	6,971.91	104.38	67.791	
15,600.00	7,618.00	16,236.00	7,569.74	116.21	158.98	95.13	1,787.82	2,055.43	7,174.93	7,070.82	104.11	68.916	
15,700.00	7,618.00	16,236.00	7,569.74	117.78	158.98	95.13	1,787.82	2,055.43	7,273.61	7,169.76	103.85	70.041	
15,800.00	7,618.00	16,236.00	7,569.74	119.36	158.98	95.13	1,787.82	2,055.43	7,372.32	7,268.73	103.59	71.166	
15,900.00	7,618.00	16,236.00	7,569.74	120.94	158.98	95.13	1,787.82	2,055.43	7,471.07	7,367.72	103.35	72.290	
16,000.00	7,618.00	16,236.00	7,569.74	122.53	158.98	95.13	1,787.82	2,055.43	7,569.85	7,466.74	103.11	73.414	
16,100.00	7,618.00	16,236.00	7,569.74	124.12	158.98	95.13	1,787.82	2,055.43	7,668.66	7,565.78	102.88	74.538	
16,200.00	7,618.00	16,236.00	7,569.74	125.72	158.98	95.13	1,787.82	2,055.43	7,767.50	7,664.84	102.66	75.661	
16,300.00	7,618.00	16,236.00	7,569.74	127.32	158.98	95.13	1,787.82	2,055.43	7,866.37	7,763.93	102.45	76.784	
16,400.00	7,618.00	16,236.00	7,569.74	128.93	158.98	95.13	1,787.82	2,055.43	7,965.27	7,863.03	102.24	77.906	
16,500.00	7,618.00	16,236.00	7,569.74	130.54	158.98	95.13	1,787.82	2,055.43	8,064.20	7,962.16	102.04	79.028	
16,600.00	7,618.00	16,236.00	7,569.74	132.15	158.98	95.13	1,787.82	2,055.43	8,163.15	8,061.30	101.85	80.149	
16,700.00	7,618.00	16,236.00	7,569.74	133.77	158.98	95.13	1,787.82	2,055.43	8,262.13	8,160.47	101.66	81.269	
16,800.00	7,618.00	16,236.00	7,569.74	135.39	158.98	95.13	1,787.82	2,055.43	8,361.13	8,259.65	101.48	82.388	
16,900.00	7,618.00	16,236.00	7,569.74	137.01	158.98	95.13	1,787.82	2,055.43	8,460.16	8,358.85	101.31	83.507	
17,000.00	7,618.00	16,236.00	7,569.74	138.64	158.98	95.13	1,787.82	2,055.43	8,559.21	8,458.07	101.14	84.625	
17,100.00	7,618.00	16,236.00	7,569.74	140.27	158.98	95.13	1,787.82	2,055.43	8,658.28	8,557.30	100.98	85.742	
17,200.00	7,618.00	16,236.00	7,569.74	141.91	158.98	95.13	1,787.82	2,055.43	8,757.37	8,656.55	100.82	86.858	
17,300.00	7,618.00	16,236.00	7,569.74	143.55	158.98	95.13	1,787.82	2,055.43	8,856.48	8,755.81	100.67	87.974	
17,400.00	7,618.00	16,236.00	7,569.74	145.19	158.98	95.13	1,787.82	2,055.43	8,955.61	8,855.09	100.53	89.088	
17,500.00	7,618.00	16,236.00	7,569.74	146.83	158.98	95.13	1,787.82	2,055.43	9,054.77	8,954.38	100.38	90.201	
17,600.00	7,618.00	16,236.00	7,569.74	148.48	158.98	95.13	1,787.82	2,055.43	9,153.93	9,053.69	100.25	91.314	
17,700.00	7,618.00	16,236.00	7,569.74	150.13	158.98	95.13	1,787.82	2,055.43	9,253.12	9,153.01	100.11	92.425	
17,800.00	7,618.00	16,236.00	7,569.74	151.78	158.98	95.13	1,787.82	2,055.43	9,352.33	9,252.34	99.99	93.535	
17,900.00	7,618.00	16,236.00	7,569.74	153.43	158.98	95.13	1,787.82	2,055.43	9,451.55	9,351.68	99.86	94.644	
18,000.00	7,618.00	16,236.00	7,569.74	155.09	158.98	95.13	1,787.82	2,055.43	9,550.79	9,451.04	99.74	95.752	
18,100.00	7,618.00	16,236.00	7,569.74	156.75	158.98	95.13	1,787.82	2,055.43	9,650.04	9,550.41	99.63	96.859	
18,200.00	7,618.00	16,236.00	7,569.74	158.41	158.98	95.13	1,787.82	2,055.43	9,749.31	9,649.79	99.52	97.965	
18,300.00	7,618.00	16,236.00	7,569.74	160.07	158.98	95.13	1,787.82	2,055.43	9,848.59	9,749.18	99.41	99.069	
18,400.00	7,618.00	16,236.00	7,569.74	161.74	158.98	95.13	1,787.82	2,055.43	9,947.89	9,848.58	99.31	100.173	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	16,659.00	7,678.61	0.00	161.70	38.76	1,782.14	1,430.91	8,158.29				
100.00	100.00	16,659.00	7,678.61	0.13	161.70	38.76	1,782.14	1,430.91	8,062.34	7,983.47	78.88	102.216	
200.00	200.00	16,659.00	7,678.61	0.49	161.70	38.76	1,782.14	1,430.91	7,966.49	7,887.55	78.94	100.915	
300.00	300.00	16,659.00	7,678.61	0.85	161.70	38.76	1,782.14	1,430.91	7,870.75	7,791.73	79.02	99.602	
400.00	400.00	16,659.00	7,678.61	1.21	161.70	38.76	1,782.14	1,430.91	7,775.11	7,696.00	79.11	98.279	
500.00	500.00	16,659.00	7,678.61	1.57	161.70	38.76	1,782.14	1,430.91	7,679.59	7,600.37	79.22	96.945	
600.00	600.00	16,659.00	7,678.61	1.93	161.70	38.76	1,782.14	1,430.91	7,584.18	7,504.85	79.33	95.601	
700.00	700.00	16,659.00	7,678.61	2.29	161.70	38.76	1,782.14	1,430.91	7,488.89	7,409.43	79.46	94.248	
800.00	800.00	16,659.00	7,678.61	2.64	161.70	38.76	1,782.14	1,430.91	7,393.72	7,314.12	79.60	92.888	
900.00	900.00	16,659.00	7,678.61	3.00	161.70	38.76	1,782.14	1,430.91	7,298.68	7,218.93	79.75	91.520	
1,000.00	999.98	16,659.00	7,678.61	3.36	161.70	-20.55	1,782.14	1,430.91	7,203.27	7,123.36	79.91	90.142	
1,100.00	1,099.84	16,659.00	7,678.61	3.71	161.70	-23.19	1,782.14	1,430.91	7,107.05	7,026.98	80.07	88.762	
1,200.00	1,199.45	16,659.00	7,678.61	4.07	161.70	-26.52	1,782.14	1,430.91	7,010.08	6,929.87	80.21	87.396	
1,300.00	1,298.70	16,659.00	7,678.61	4.44	161.70	-30.83	1,782.14	1,430.91	6,912.48	6,832.14	80.34	86.045	
1,400.00	1,397.47	16,659.00	7,678.61	4.82	161.70	-36.53	1,782.14	1,430.91	6,814.32	6,733.88	80.44	84.712	
1,500.00	1,495.62	16,659.00	7,678.61	5.22	161.70	-44.22	1,782.14	1,430.91	6,715.71	6,635.18	80.53	83.397	
1,600.00	1,593.06	16,659.00	7,678.61	5.65	161.70	-54.67	1,782.14	1,430.91	6,616.75	6,536.16	80.59	82.104	
1,700.00	1,689.64	16,659.00	7,678.61	6.11	161.70	-68.50	1,782.14	1,430.91	6,517.54	6,436.91	80.63	80.831	
1,800.00	1,785.27	16,659.00	7,678.61	6.61	161.70	-85.22	1,782.14	1,430.91	6,418.21	6,337.56	80.65	79.582	
1,900.00	1,879.82	16,659.00	7,678.61	7.15	161.70	-102.52	1,782.14	1,430.91	6,318.86	6,238.22	80.64	78.355	
2,000.00	1,973.17	16,659.00	7,678.61	7.73	161.70	-117.59	1,782.14	1,430.91	6,219.63	6,139.01	80.62	77.152	
2,100.00	2,065.21	16,659.00	7,678.61	8.37	161.70	-129.27	1,782.14	1,430.91	6,120.63	6,040.07	80.56	75.972	
2,200.00	2,155.84	16,659.00	7,678.61	9.07	161.70	-137.91	1,782.14	1,430.91	6,022.01	5,941.52	80.49	74.815	
2,300.00	2,244.94	16,659.00	7,678.61	9.82	161.70	-144.27	1,782.14	1,430.91	5,923.91	5,843.51	80.40	73.680	
2,400.00	2,332.39	16,659.00	7,678.61	10.64	161.70	-149.04	1,782.14	1,430.91	5,826.47	5,746.18	80.29	72.565	
2,500.00	2,418.11	16,659.00	7,678.61	11.53	161.70	-152.69	1,782.14	1,430.91	5,729.86	5,649.69	80.17	71.470	
2,558.91	2,467.74	16,659.00	7,678.61	12.08	161.70	-154.45	1,782.14	1,430.91	5,673.40	5,593.30	80.09	70.834	
2,600.00	2,502.13	16,659.00	7,678.61	12.47	161.70	-154.45	1,782.14	1,430.91	5,634.15	5,554.11	80.04	70.389	
2,700.00	2,585.83	16,659.00	7,678.61	13.45	161.70	-154.45	1,782.14	1,430.91	5,538.75	5,458.82	79.94	69.289	
2,800.00	2,669.53	16,659.00	7,678.61	14.44	161.70	-154.45	1,782.14	1,430.91	5,443.52	5,363.68	79.84	68.177	
2,900.00	2,753.22	16,659.00	7,678.61	15.46	161.70	-154.45	1,782.14	1,430.91	5,348.46	5,268.70	79.77	67.052	
3,000.00	2,836.92	16,659.00	7,678.61	16.48	161.70	-154.45	1,782.14	1,430.91	5,253.59	5,173.89	79.70	65.915	
3,100.00	2,920.62	16,659.00	7,678.61	17.52	161.70	-154.45	1,782.14	1,430.91	5,158.91	5,079.25	79.65	64.766	
3,200.00	3,004.32	16,659.00	7,678.61	18.56	161.70	-154.45	1,782.14	1,430.91	5,064.43	4,984.81	79.62	63.606	
3,300.00	3,088.01	16,659.00	7,678.61	19.61	161.70	-154.45	1,782.14	1,430.91	4,970.17	4,890.56	79.61	62.434	
3,400.00	3,171.71	16,659.00	7,678.61	20.67	161.70	-154.45	1,782.14	1,430.91	4,876.14	4,796.53	79.61	61.250	
3,500.00	3,255.41	16,659.00	7,678.61	21.73	161.70	-154.45	1,782.14	1,430.91	4,782.35	4,702.72	79.63	60.056	
3,600.00	3,339.10	16,659.00	7,678.61	22.80	161.70	-154.45	1,782.14	1,430.91	4,688.82	4,609.14	79.67	58.851	
3,700.00	3,422.80	16,659.00	7,678.61	23.87	161.70	-154.45	1,782.14	1,430.91	4,595.55	4,515.82	79.74	57.634	
3,800.00	3,506.50	16,659.00	7,678.61	24.94	161.70	-154.45	1,782.14	1,430.91	4,502.58	4,422.76	79.82	56.407	
3,900.00	3,590.20	16,659.00	7,678.61	26.02	161.70	-154.45	1,782.14	1,430.91	4,409.92	4,329.98	79.94	55.168	
4,000.00	3,673.89	16,659.00	7,678.61	27.10	161.70	-154.45	1,782.14	1,430.91	4,317.58	4,237.51	80.08	53.918	
4,100.00	3,757.59	16,659.00	7,678.61	28.18	161.70	-154.45	1,782.14	1,430.91	4,225.60	4,145.35	80.25	52.656	
4,200.00	3,841.29	16,659.00	7,678.61	29.26	161.70	-154.45	1,782.14	1,430.91	4,133.98	4,053.53	80.46	51.382	
4,300.00	3,924.99	16,659.00	7,678.61	30.35	161.70	-154.45	1,782.14	1,430.91	4,042.76	3,962.06	80.70	50.097	
4,400.00	4,008.68	16,659.00	7,678.61	31.44	161.70	-154.45	1,782.14	1,430.91	3,951.97	3,870.98	80.98	48.799	
4,500.00	4,092.38	16,659.00	7,678.61	32.52	161.70	-154.45	1,782.14	1,430.91	3,861.63	3,780.31	81.32	47.489	
4,600.00	4,176.08	16,659.00	7,678.61	33.62	161.70	-154.45	1,782.14	1,430.91	3,771.78	3,690.08	81.70	46.165	
4,700.00	4,259.77	16,659.00	7,678.61	34.71	161.70	-154.45	1,782.14	1,430.91	3,682.45	3,600.31	82.14	44.829	
4,800.00	4,343.47	16,659.00	7,678.61	35.80	161.70	-154.45	1,782.14	1,430.91	3,593.69	3,511.04	82.65	43.480	
4,900.00	4,427.17	16,659.00	7,678.61	36.89	161.70	-154.45	1,782.14	1,430.91	3,505.53	3,422.30	83.23	42.117	
5,000.00	4,510.87	16,659.00	7,678.61	37.99	161.70	-154.45	1,782.14	1,430.91	3,418.02	3,334.13	83.89	40.742	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	16,659.00	7,678.61	39.08	161.70	-154.45	1,782.14	1,430.91	3,331.22	3,246.57	84.65	39.354	
5,200.00	4,678.26	16,659.00	7,678.61	40.18	161.70	-154.45	1,782.14	1,430.91	3,245.17	3,159.67	85.50	37.954	
5,300.00	4,761.96	16,659.00	7,678.61	41.28	161.70	-154.45	1,782.14	1,430.91	3,159.95	3,073.48	86.47	36.544	
5,400.00	4,845.66	16,659.00	7,678.61	42.37	161.70	-154.45	1,782.14	1,430.91	3,075.62	2,988.05	87.56	35.125	
5,500.00	4,929.35	16,659.00	7,678.61	43.47	161.70	-154.45	1,782.14	1,430.91	2,992.25	2,903.45	88.80	33.698	
5,600.00	5,013.05	16,659.00	7,678.61	44.57	161.70	-154.45	1,782.14	1,430.91	2,909.93	2,819.74	90.19	32.266	
5,700.00	5,096.75	16,659.00	7,678.61	45.67	161.70	-154.45	1,782.14	1,430.91	2,828.75	2,737.00	91.75	30.832	
5,800.00	5,180.45	16,659.00	7,678.61	46.77	161.70	-154.45	1,782.14	1,430.91	2,748.81	2,655.31	93.50	29.400	
5,900.00	5,264.14	16,659.00	7,678.61	47.87	161.70	-154.45	1,782.14	1,430.91	2,670.22	2,574.77	95.45	27.974	
6,000.00	5,347.84	16,659.00	7,678.61	48.97	161.70	-154.45	1,782.14	1,430.91	2,593.11	2,495.47	97.63	26.559	
6,100.00	5,431.54	16,659.00	7,678.61	50.07	161.70	-154.45	1,782.14	1,430.91	2,517.61	2,417.55	100.06	25.161	
6,200.00	5,515.23	16,659.00	7,678.61	51.17	161.70	-154.45	1,782.14	1,430.91	2,443.87	2,341.12	102.75	23.785	
6,300.00	5,598.93	16,659.00	7,678.61	52.27	161.70	-154.45	1,782.14	1,430.91	2,372.05	2,266.34	105.71	22.439	
6,400.00	5,682.63	16,659.00	7,678.61	53.38	161.70	-154.45	1,782.14	1,430.91	2,302.34	2,193.37	108.97	21.129	
6,500.00	5,766.33	16,659.00	7,678.61	54.48	161.70	-154.45	1,782.14	1,430.91	2,234.92	2,122.40	112.53	19.861	
6,600.00	5,850.02	16,659.00	7,678.61	55.58	161.70	-154.45	1,782.14	1,430.91	2,170.03	2,053.63	116.40	18.643	
6,700.00	5,933.72	16,659.00	7,678.61	56.68	161.70	-154.45	1,782.14	1,430.91	2,107.88	1,987.30	120.58	17.481	
6,800.00	6,017.42	16,659.00	7,678.61	57.79	161.70	-154.45	1,782.14	1,430.91	2,048.73	1,923.66	125.07	16.380	
6,900.00	6,101.12	16,659.00	7,678.61	58.89	161.70	-154.45	1,782.14	1,430.91	1,992.84	1,862.98	129.86	15.346	
7,000.00	6,184.81	16,659.00	7,678.61	59.99	161.70	-154.45	1,782.14	1,430.91	1,940.50	1,805.59	134.92	14.383	
7,100.00	6,268.51	16,659.00	7,678.61	61.10	161.70	-154.45	1,782.14	1,430.91	1,892.01	1,751.80	140.21	13.494	
7,200.00	6,352.21	16,659.00	7,678.61	62.20	161.70	-154.45	1,782.14	1,430.91	1,847.65	1,701.96	145.69	12.682	
7,300.00	6,435.90	16,659.00	7,678.61	63.31	161.70	-154.45	1,782.14	1,430.91	1,807.75	1,656.44	151.31	11.947	
7,400.00	6,519.60	16,659.00	7,678.61	64.41	161.70	-154.45	1,782.14	1,430.91	1,772.60	1,615.60	156.99	11.291	
7,500.00	6,603.30	16,659.00	7,678.61	65.51	161.70	-154.45	1,782.14	1,430.91	1,742.48	1,579.83	162.65	10.713	
7,600.00	6,687.00	16,659.00	7,678.61	66.62	161.70	-154.45	1,782.14	1,430.91	1,717.66	1,549.45	168.21	10.211	
7,700.00	6,770.69	16,660.88	7,678.63	67.72	161.73	-154.51	1,780.26	1,430.93	1,698.38	1,524.83	173.55	9.786	
7,800.00	6,854.39	16,632.56	7,678.30	68.83	161.24	-153.58	1,808.57	1,430.72	1,684.62	1,505.74	178.88	9.418	
7,900.00	6,938.09	16,604.73	7,677.97	69.93	160.75	-152.67	1,836.40	1,430.51	1,676.24	1,492.34	183.90	9.115	
7,933.18	6,965.86	16,595.96	7,677.88	70.30	160.60	-152.38	1,845.18	1,430.45	1,674.67	1,489.19	185.48	9.029	
7,950.00	6,980.00	16,591.71	7,677.83	70.49	160.53	-154.50	1,849.42	1,430.42	1,674.10	1,487.83	186.27	8.988	
8,000.00	7,022.68	16,581.66	7,677.74	71.01	160.35	-161.66	1,859.47	1,430.34	1,673.32	1,484.73	188.59	8.873	
8,002.57	7,024.89	16,581.25	7,677.74	71.04	160.34	-162.06	1,859.88	1,430.34	1,673.32	1,484.61	188.71	8.867	CC
8,050.00	7,066.06	16,575.56	7,677.69	71.51	160.24	-169.96	1,865.57	1,430.30	1,673.97	1,483.12	190.85	8.771	
8,100.00	7,109.82	16,573.52	7,677.67	71.97	160.21	-179.10	1,867.61	1,430.29	1,676.09	1,483.07	193.02	8.684	ES
8,150.00	7,153.63	16,575.60	7,677.69	72.38	160.25	171.41	1,865.53	1,430.30	1,679.66	1,484.59	195.07	8.611	
8,200.00	7,197.14	16,581.86	7,677.74	72.74	160.35	162.07	1,859.27	1,430.35	1,684.64	1,487.65	196.99	8.552	
8,250.00	7,240.04	16,592.30	7,677.84	73.05	160.54	153.27	1,848.83	1,430.42	1,690.94	1,492.17	198.77	8.507	
8,300.00	7,281.99	16,615.24	7,677.99	73.31	160.93	145.22	1,834.37	1,430.52	1,698.39	1,497.86	200.53	8.469	
8,350.00	7,322.67	16,626.08	7,678.22	73.52	161.12	137.96	1,815.06	1,430.67	1,706.84	1,504.98	201.85	8.456	
8,400.00	7,361.77	16,649.34	7,678.50	73.68	161.53	131.48	1,791.80	1,430.84	1,716.05	1,512.88	203.17	8.446	
8,450.00	7,399.01	16,659.00	7,678.61	73.78	161.70	126.18	1,782.14	1,430.91	1,725.88	1,521.35	204.53	8.438	
8,500.00	7,434.08	16,659.00	7,678.61	73.85	161.70	121.77	1,782.14	1,430.91	1,736.48	1,530.61	205.86	8.435	SF
8,550.00	7,466.74	16,659.00	7,678.61	73.87	161.70	117.89	1,782.14	1,430.91	1,747.77	1,540.71	207.06	8.441	
8,600.00	7,496.72	16,659.00	7,678.61	73.85	161.70	114.43	1,782.14	1,430.91	1,759.66	1,551.56	208.11	8.456	
8,650.00	7,523.80	16,659.00	7,678.61	73.79	161.70	111.33	1,782.14	1,430.91	1,772.05	1,563.04	209.01	8.478	
8,700.00	7,547.77	16,659.00	7,678.61	73.70	161.70	108.55	1,782.14	1,430.91	1,784.84	1,575.07	209.77	8.508	
8,750.00	7,568.45	16,659.00	7,678.61	73.58	161.70	106.03	1,782.14	1,430.91	1,797.91	1,587.53	210.38	8.546	
8,800.00	7,585.69	16,659.00	7,678.61	73.43	161.70	103.77	1,782.14	1,430.91	1,811.17	1,600.32	210.85	8.590	
8,850.00	7,599.35	16,659.00	7,678.61	73.26	161.70	101.74	1,782.14	1,430.91	1,824.51	1,613.34	211.17	8.640	
8,900.00	7,609.33	16,659.00	7,678.61	73.07	161.70	99.93	1,782.14	1,430.91	1,837.83	1,626.49	211.34	8.696	
8,950.00	7,615.55	16,659.00	7,678.61	72.87	161.70	98.34	1,782.14	1,430.91	1,851.03	1,639.66	211.37	8.757	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	16,659.00	7,678.61	72.65	161.70	96.97	1,782.14	1,430.91	1,864.01	1,652.75	211.26	8.823	
9,006.60	7,618.00	16,659.00	7,678.61	72.62	161.70	96.80	1,782.14	1,430.91	1,865.70	1,654.46	211.24	8.832	
9,100.00	7,618.00	16,659.00	7,678.61	72.22	161.70	96.80	1,782.14	1,430.91	1,891.76	1,681.09	210.68	8.980	
9,200.00	7,618.00	16,659.00	7,678.61	71.80	161.70	96.80	1,782.14	1,430.91	1,924.30	1,714.62	209.68	9.177	
9,300.00	7,618.00	16,659.00	7,678.61	71.41	161.70	96.80	1,782.14	1,430.91	1,961.41	1,753.09	208.32	9.415	
9,400.00	7,618.00	16,659.00	7,678.61	71.04	161.70	96.80	1,782.14	1,430.91	2,002.83	1,796.17	206.65	9.692	
9,500.00	7,618.00	16,659.00	7,678.61	70.68	161.70	96.80	1,782.14	1,430.91	2,048.29	1,843.58	204.71	10.006	
9,600.00	7,618.00	16,659.00	7,678.61	70.35	161.70	96.80	1,782.14	1,430.91	2,097.54	1,894.99	202.56	10.355	
9,700.00	7,618.00	16,659.00	7,678.61	70.04	161.70	96.80	1,782.14	1,430.91	2,150.32	1,950.09	200.23	10.739	
9,800.00	7,618.00	16,659.00	7,678.61	69.75	161.70	96.80	1,782.14	1,430.91	2,206.37	2,008.59	197.77	11.156	
9,900.00	7,618.00	16,659.00	7,678.61	69.47	161.70	96.80	1,782.14	1,430.91	2,265.44	2,070.22	195.22	11.604	
10,000.00	7,618.00	16,659.00	7,678.61	69.22	161.70	96.80	1,782.14	1,430.91	2,327.32	2,134.71	192.61	12.083	
10,100.00	7,618.00	16,659.00	7,678.61	68.99	161.70	96.80	1,782.14	1,430.91	2,391.78	2,201.81	189.97	12.590	
10,200.00	7,618.00	16,659.00	7,678.61	68.78	161.70	96.80	1,782.14	1,430.91	2,458.61	2,271.29	187.32	13.125	
10,300.00	7,618.00	16,659.00	7,678.61	68.59	161.70	96.80	1,782.14	1,430.91	2,527.64	2,342.95	184.69	13.686	
10,400.00	7,618.00	16,659.00	7,678.61	68.42	161.70	96.80	1,782.14	1,430.91	2,598.68	2,416.60	182.08	14.272	
10,500.00	7,618.00	16,659.00	7,678.61	68.28	161.70	96.80	1,782.14	1,430.91	2,671.58	2,492.06	179.52	14.882	
10,600.00	7,618.00	16,659.00	7,678.61	68.16	161.70	96.80	1,782.14	1,430.91	2,746.18	2,569.18	177.00	15.515	
10,700.00	7,618.00	16,659.00	7,678.61	68.06	161.70	96.80	1,782.14	1,430.91	2,822.36	2,647.81	174.55	16.170	
10,800.00	7,618.00	16,659.00	7,678.61	67.99	161.70	96.80	1,782.14	1,430.91	2,899.98	2,727.82	172.16	16.845	
10,900.00	7,618.00	16,659.00	7,678.61	67.95	161.70	96.80	1,782.14	1,430.91	2,978.94	2,809.10	169.83	17.540	
11,000.00	7,618.00	16,659.00	7,678.61	67.95	161.70	96.80	1,782.14	1,430.91	3,059.13	2,891.54	167.58	18.254	
11,100.00	7,618.00	16,659.00	7,678.61	67.97	161.70	96.80	1,782.14	1,430.91	3,140.45	2,975.05	165.40	18.987	
11,200.00	7,618.00	16,659.00	7,678.61	68.04	161.70	96.80	1,782.14	1,430.91	3,222.83	3,059.53	163.30	19.736	
11,300.00	7,618.00	16,659.00	7,678.61	68.15	161.70	96.80	1,782.14	1,430.91	3,306.18	3,144.92	161.26	20.502	
11,400.00	7,618.00	16,659.00	7,678.61	68.30	161.70	96.80	1,782.14	1,430.91	3,390.43	3,231.13	159.30	21.283	
11,500.00	7,618.00	16,659.00	7,678.61	68.50	161.70	96.80	1,782.14	1,430.91	3,475.51	3,318.10	157.41	22.080	
11,600.00	7,618.00	16,659.00	7,678.61	68.75	161.70	96.80	1,782.14	1,430.91	3,561.37	3,405.79	155.59	22.890	
11,700.00	7,618.00	16,659.00	7,678.61	69.06	161.70	96.80	1,782.14	1,430.91	3,647.95	3,494.12	153.83	23.714	
11,800.00	7,618.00	16,659.00	7,678.61	69.44	161.70	96.80	1,782.14	1,430.91	3,735.20	3,583.06	152.14	24.551	
11,900.00	7,618.00	16,659.00	7,678.61	69.88	161.70	96.80	1,782.14	1,430.91	3,823.08	3,672.56	150.51	25.400	
12,000.00	7,618.00	16,659.00	7,678.61	70.39	161.70	96.80	1,782.14	1,430.91	3,911.53	3,762.59	148.95	26.261	
12,100.00	7,618.00	16,659.00	7,678.61	70.97	161.70	96.80	1,782.14	1,430.91	4,000.54	3,853.10	147.44	27.134	
12,200.00	7,618.00	16,659.00	7,678.61	71.63	161.70	96.80	1,782.14	1,430.91	4,090.05	3,944.06	145.99	28.017	
12,300.00	7,618.00	16,659.00	7,678.61	72.35	161.70	96.80	1,782.14	1,430.91	4,180.03	4,035.44	144.59	28.910	
12,400.00	7,618.00	16,659.00	7,678.61	73.15	161.70	96.80	1,782.14	1,430.91	4,270.46	4,127.22	143.24	29.812	
12,500.00	7,618.00	16,659.00	7,678.61	74.01	161.70	96.80	1,782.14	1,430.91	4,361.31	4,219.36	141.95	30.724	
12,600.00	7,618.00	16,659.00	7,678.61	74.93	161.70	96.80	1,782.14	1,430.91	4,452.55	4,311.85	140.70	31.645	
12,700.00	7,618.00	16,659.00	7,678.61	75.91	161.70	96.80	1,782.14	1,430.91	4,544.16	4,404.66	139.50	32.575	
12,800.00	7,618.00	16,659.00	7,678.61	76.95	161.70	96.80	1,782.14	1,430.91	4,636.12	4,497.77	138.34	33.512	
12,900.00	7,618.00	16,659.00	7,678.61	78.04	161.70	96.80	1,782.14	1,430.91	4,728.40	4,591.17	137.23	34.457	
13,000.00	7,618.00	16,659.00	7,678.61	79.16	161.70	96.80	1,782.14	1,430.91	4,820.99	4,684.84	136.15	35.409	
13,100.00	7,618.00	16,659.00	7,678.61	80.33	161.70	96.80	1,782.14	1,430.91	4,913.87	4,778.75	135.12	36.368	
13,200.00	7,618.00	16,659.00	7,678.61	81.54	161.70	96.80	1,782.14	1,430.91	5,007.03	4,872.91	134.12	37.333	
13,300.00	7,618.00	16,659.00	7,678.61	82.78	161.70	96.80	1,782.14	1,430.91	5,100.44	4,967.29	133.15	38.305	
13,400.00	7,618.00	16,659.00	7,678.61	84.05	161.70	96.80	1,782.14	1,430.91	5,194.10	5,061.88	132.22	39.283	
13,500.00	7,618.00	16,659.00	7,678.61	85.35	161.70	96.80	1,782.14	1,430.91	5,287.99	5,156.67	131.33	40.266	
13,600.00	7,618.00	16,659.00	7,678.61	86.67	161.70	96.80	1,782.14	1,430.91	5,382.10	5,251.65	130.46	41.255	
13,700.00	7,618.00	16,659.00	7,678.61	88.02	161.70	96.80	1,782.14	1,430.91	5,476.43	5,346.80	129.62	42.249	
13,800.00	7,618.00	16,659.00	7,678.61	89.38	161.70	96.80	1,782.14	1,430.91	5,570.94	5,442.13	128.81	43.248	
13,900.00	7,618.00	16,659.00	7,678.61	90.77	161.70	96.80	1,782.14	1,430.91	5,665.65	5,537.62	128.03	44.252	
14,000.00	7,618.00	16,659.00	7,678.61	92.17	161.70	96.80	1,782.14	1,430.91	5,760.54	5,633.26	127.28	45.260	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,618.00	16,659.00	7,678.61	93.59	161.70	96.80	1,782.14	1,430.91	5,855.59	5,729.05	126.55	46.272	
14,200.00	7,618.00	16,659.00	7,678.61	95.02	161.70	96.80	1,782.14	1,430.91	5,950.81	5,824.97	125.84	47.288	
14,300.00	7,618.00	16,659.00	7,678.61	96.47	161.70	96.80	1,782.14	1,430.91	6,046.18	5,921.03	125.16	48.308	
14,400.00	7,618.00	16,659.00	7,678.61	97.93	161.70	96.80	1,782.14	1,430.91	6,141.70	6,017.21	124.50	49.332	
14,500.00	7,618.00	16,659.00	7,678.61	99.41	161.70	96.80	1,782.14	1,430.91	6,237.36	6,113.51	123.86	50.359	
14,600.00	7,618.00	16,659.00	7,678.61	100.89	161.70	96.80	1,782.14	1,430.91	6,333.16	6,209.92	123.24	51.389	
14,700.00	7,618.00	16,659.00	7,678.61	102.38	161.70	96.80	1,782.14	1,430.91	6,429.08	6,306.44	122.64	52.422	
14,800.00	7,618.00	16,659.00	7,678.61	103.89	161.70	96.80	1,782.14	1,430.91	6,525.13	6,403.07	122.06	53.458	
14,900.00	7,618.00	16,659.00	7,678.61	105.40	161.70	96.80	1,782.14	1,430.91	6,621.29	6,499.79	121.50	54.497	
15,000.00	7,618.00	16,659.00	7,678.61	106.92	161.70	96.80	1,782.14	1,430.91	6,717.56	6,596.61	120.95	55.538	
15,100.00	7,618.00	16,659.00	7,678.61	108.45	161.70	96.80	1,782.14	1,430.91	6,813.94	6,693.52	120.43	56.582	
15,200.00	7,618.00	16,659.00	7,678.61	109.99	161.70	96.80	1,782.14	1,430.91	6,910.43	6,790.51	119.91	57.628	
15,300.00	7,618.00	16,659.00	7,678.61	111.54	161.70	96.80	1,782.14	1,430.91	7,007.01	6,887.59	119.42	58.676	
15,400.00	7,618.00	16,659.00	7,678.61	113.09	161.70	96.80	1,782.14	1,430.91	7,103.69	6,984.75	118.94	59.726	
15,500.00	7,618.00	16,659.00	7,678.61	114.65	161.70	96.80	1,782.14	1,430.91	7,200.46	7,081.98	118.47	60.779	
15,600.00	7,618.00	16,659.00	7,678.61	116.21	161.70	96.80	1,782.14	1,430.91	7,297.31	7,179.29	118.02	61.832	
15,700.00	7,618.00	16,659.00	7,678.61	117.78	161.70	96.80	1,782.14	1,430.91	7,394.25	7,276.67	117.58	62.888	
15,800.00	7,618.00	16,659.00	7,678.61	119.36	161.70	96.80	1,782.14	1,430.91	7,491.27	7,374.12	117.15	63.945	
15,900.00	7,618.00	16,659.00	7,678.61	120.94	161.70	96.80	1,782.14	1,430.91	7,588.37	7,471.63	116.74	65.003	
16,000.00	7,618.00	16,659.00	7,678.61	122.53	161.70	96.80	1,782.14	1,430.91	7,685.54	7,569.20	116.34	66.063	
16,100.00	7,618.00	16,659.00	7,678.61	124.12	161.70	96.80	1,782.14	1,430.91	7,782.78	7,666.83	115.95	67.124	
16,200.00	7,618.00	16,659.00	7,678.61	125.72	161.70	96.80	1,782.14	1,430.91	7,880.09	7,764.52	115.57	68.186	
16,300.00	7,618.00	16,659.00	7,678.61	127.32	161.70	96.80	1,782.14	1,430.91	7,977.47	7,862.27	115.20	69.249	
16,400.00	7,618.00	16,659.00	7,678.61	128.93	161.70	96.80	1,782.14	1,430.91	8,074.91	7,960.07	114.84	70.313	
16,500.00	7,618.00	16,659.00	7,678.61	130.54	161.70	96.80	1,782.14	1,430.91	8,172.42	8,057.92	114.50	71.378	
16,600.00	7,618.00	16,659.00	7,678.61	132.15	161.70	96.80	1,782.14	1,430.91	8,269.98	8,155.82	114.16	72.444	
16,700.00	7,618.00	16,659.00	7,678.61	133.77	161.70	96.80	1,782.14	1,430.91	8,367.60	8,253.77	113.83	73.510	
16,800.00	7,618.00	16,659.00	7,678.61	135.39	161.70	96.80	1,782.14	1,430.91	8,465.28	8,351.77	113.51	74.577	
16,900.00	7,618.00	16,659.00	7,678.61	137.01	161.70	96.80	1,782.14	1,430.91	8,563.01	8,449.81	113.20	75.644	
17,000.00	7,618.00	16,659.00	7,678.61	138.64	161.70	96.80	1,782.14	1,430.91	8,660.79	8,547.89	112.90	76.712	
17,100.00	7,618.00	16,659.00	7,678.61	140.27	161.70	96.80	1,782.14	1,430.91	8,758.62	8,646.02	112.61	77.780	
17,200.00	7,618.00	16,659.00	7,678.61	141.91	161.70	96.80	1,782.14	1,430.91	8,856.51	8,744.18	112.32	78.849	
17,300.00	7,618.00	16,659.00	7,678.61	143.55	161.70	96.80	1,782.14	1,430.91	8,954.43	8,842.39	112.05	79.918	
17,400.00	7,618.00	16,659.00	7,678.61	145.19	161.70	96.80	1,782.14	1,430.91	9,052.41	8,940.63	111.78	80.987	
17,500.00	7,618.00	16,659.00	7,678.61	146.83	161.70	96.80	1,782.14	1,430.91	9,150.42	9,038.91	111.51	82.056	
17,600.00	7,618.00	16,659.00	7,678.61	148.48	161.70	96.80	1,782.14	1,430.91	9,248.48	9,137.22	111.26	83.125	
17,700.00	7,618.00	16,659.00	7,678.61	150.13	161.70	96.80	1,782.14	1,430.91	9,346.58	9,235.57	111.01	84.194	
17,800.00	7,618.00	16,659.00	7,678.61	151.78	161.70	96.80	1,782.14	1,430.91	9,444.72	9,333.95	110.77	85.263	
17,900.00	7,618.00	16,659.00	7,678.61	153.43	161.70	96.80	1,782.14	1,430.91	9,542.90	9,432.37	110.54	86.332	
18,000.00	7,618.00	16,659.00	7,678.61	155.09	161.70	96.80	1,782.14	1,430.91	9,641.12	9,530.81	110.31	87.401	
18,100.00	7,618.00	16,659.00	7,678.61	156.75	161.70	96.80	1,782.14	1,430.91	9,739.37	9,629.28	110.09	88.470	
18,200.00	7,618.00	16,659.00	7,678.61	158.41	161.70	96.80	1,782.14	1,430.91	9,837.66	9,727.79	109.87	89.538	
18,300.00	7,618.00	16,659.00	7,678.61	160.07	161.70	96.80	1,782.14	1,430.91	9,935.98	9,826.32	109.66	90.606	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	16,530.00	7,789.95	0.00	159.85	42.57	1,779.80	1,634.90	8,302.48				
100.00	100.00	16,530.00	7,789.95	0.13	159.85	42.57	1,779.80	1,634.90	8,206.86	8,129.50	77.36	106.082	
200.00	200.00	16,530.00	7,789.95	0.49	159.85	42.57	1,779.80	1,634.90	8,111.35	8,033.89	77.46	104.721	
300.00	300.00	16,530.00	7,789.95	0.85	159.85	42.57	1,779.80	1,634.90	8,015.94	7,938.38	77.56	103.347	
400.00	400.00	16,530.00	7,789.95	1.21	159.85	42.57	1,779.80	1,634.90	7,920.65	7,842.97	77.68	101.961	
500.00	500.00	16,530.00	7,789.95	1.57	159.85	42.57	1,779.80	1,634.90	7,825.48	7,747.67	77.82	100.563	
600.00	600.00	16,530.00	7,789.95	1.93	159.85	42.57	1,779.80	1,634.90	7,730.43	7,652.47	77.96	99.155	
700.00	700.00	16,530.00	7,789.95	2.29	159.85	42.57	1,779.80	1,634.90	7,635.51	7,557.39	78.12	97.736	
800.00	800.00	16,530.00	7,789.95	2.64	159.85	42.57	1,779.80	1,634.90	7,540.72	7,462.42	78.30	96.309	
900.00	900.00	16,530.00	7,789.95	3.00	159.85	42.57	1,779.80	1,634.90	7,446.06	7,367.58	78.48	94.875	
1,000.00	999.98	16,530.00	7,789.95	3.36	159.85	-16.25	1,779.80	1,634.90	7,351.01	7,272.33	78.68	93.429	
1,100.00	1,099.84	16,530.00	7,789.95	3.71	159.85	-18.26	1,779.80	1,634.90	7,255.09	7,176.21	78.87	91.982	
1,200.00	1,199.45	16,530.00	7,789.95	4.07	159.85	-20.81	1,779.80	1,634.90	7,158.37	7,079.32	79.05	90.552	
1,300.00	1,298.70	16,530.00	7,789.95	4.44	159.85	-24.10	1,779.80	1,634.90	7,060.96	6,981.74	79.21	89.139	
1,400.00	1,397.47	16,530.00	7,789.95	4.82	159.85	-28.50	1,779.80	1,634.90	6,962.93	6,883.58	79.35	87.747	
1,500.00	1,495.62	16,530.00	7,789.95	5.22	159.85	-34.56	1,779.80	1,634.90	6,864.39	6,784.92	79.47	86.376	
1,600.00	1,593.06	16,530.00	7,789.95	5.65	159.85	-43.17	1,779.80	1,634.90	6,765.43	6,685.87	79.57	85.029	
1,700.00	1,689.64	16,530.00	7,789.95	6.11	159.85	-55.61	1,779.80	1,634.90	6,666.17	6,586.53	79.64	83.707	
1,800.00	1,785.27	16,530.00	7,789.95	6.61	159.85	-72.88	1,779.80	1,634.90	6,566.70	6,487.02	79.68	82.411	
1,900.00	1,879.82	16,530.00	7,789.95	7.15	159.85	-93.62	1,779.80	1,634.90	6,467.15	6,387.45	79.70	81.141	
2,000.00	1,973.17	16,530.00	7,789.95	7.73	159.85	-113.21	1,779.80	1,634.90	6,367.64	6,287.94	79.70	79.899	
2,100.00	2,065.21	16,530.00	7,789.95	8.37	159.85	-128.24	1,779.80	1,634.90	6,268.29	6,188.62	79.66	78.684	
2,200.00	2,155.84	16,530.00	7,789.95	9.07	159.85	-138.75	1,779.80	1,634.90	6,169.23	6,089.62	79.61	77.497	
2,300.00	2,244.94	16,530.00	7,789.95	9.82	159.85	-146.06	1,779.80	1,634.90	6,070.60	5,991.07	79.52	76.337	
2,400.00	2,332.39	16,530.00	7,789.95	10.64	159.85	-151.26	1,779.80	1,634.90	5,972.54	5,893.12	79.42	75.203	
2,500.00	2,418.11	16,530.00	7,789.95	11.53	159.85	-155.09	1,779.80	1,634.90	5,875.21	5,795.92	79.29	74.094	
2,558.91	2,467.74	16,530.00	7,789.95	12.08	159.85	-156.90	1,779.80	1,634.90	5,818.28	5,739.07	79.21	73.454	
2,600.00	2,502.13	16,530.00	7,789.95	12.47	159.85	-156.90	1,779.80	1,634.90	5,778.69	5,699.54	79.15	73.006	
2,700.00	2,585.83	16,530.00	7,789.95	13.45	159.85	-156.90	1,779.80	1,634.90	5,682.44	5,603.41	79.03	71.903	
2,800.00	2,669.53	16,530.00	7,789.95	14.44	159.85	-156.90	1,779.80	1,634.90	5,586.33	5,507.41	78.92	70.789	
2,900.00	2,753.22	16,530.00	7,789.95	15.46	159.85	-156.90	1,779.80	1,634.90	5,490.35	5,411.54	78.81	69.664	
3,000.00	2,836.92	16,530.00	7,789.95	16.48	159.85	-156.90	1,779.80	1,634.90	5,394.51	5,315.80	78.72	68.529	
3,100.00	2,920.62	16,530.00	7,789.95	17.52	159.85	-156.90	1,779.80	1,634.90	5,298.83	5,220.20	78.64	67.385	
3,200.00	3,004.32	16,530.00	7,789.95	18.56	159.85	-156.90	1,779.80	1,634.90	5,203.32	5,124.75	78.56	66.230	
3,300.00	3,088.01	16,530.00	7,789.95	19.61	159.85	-156.90	1,779.80	1,634.90	5,107.97	5,029.47	78.50	65.066	
3,400.00	3,171.71	16,530.00	7,789.95	20.67	159.85	-156.90	1,779.80	1,634.90	5,012.81	4,934.35	78.46	63.892	
3,500.00	3,255.41	16,530.00	7,789.95	21.73	159.85	-156.90	1,779.80	1,634.90	4,917.84	4,839.41	78.42	62.709	
3,600.00	3,339.10	16,530.00	7,789.95	22.80	159.85	-156.90	1,779.80	1,634.90	4,823.07	4,744.67	78.40	61.516	
3,700.00	3,422.80	16,530.00	7,789.95	23.87	159.85	-156.90	1,779.80	1,634.90	4,728.52	4,650.12	78.40	60.315	
3,800.00	3,506.50	16,530.00	7,789.95	24.94	159.85	-156.90	1,779.80	1,634.90	4,634.19	4,555.78	78.41	59.104	
3,900.00	3,590.20	16,530.00	7,789.95	26.02	159.85	-156.90	1,779.80	1,634.90	4,540.11	4,461.68	78.44	57.883	
4,000.00	3,673.89	16,530.00	7,789.95	27.10	159.85	-156.90	1,779.80	1,634.90	4,446.29	4,367.81	78.48	56.654	
4,100.00	3,757.59	16,530.00	7,789.95	28.18	159.85	-156.90	1,779.80	1,634.90	4,352.74	4,274.19	78.55	55.414	
4,200.00	3,841.29	16,530.00	7,789.95	29.26	159.85	-156.90	1,779.80	1,634.90	4,259.49	4,180.85	78.64	54.164	
4,300.00	3,924.99	16,530.00	7,789.95	30.35	159.85	-156.90	1,779.80	1,634.90	4,166.54	4,087.79	78.76	52.905	
4,400.00	4,008.68	16,530.00	7,789.95	31.44	159.85	-156.90	1,779.80	1,634.90	4,073.94	3,995.04	78.90	51.634	
4,500.00	4,092.38	16,530.00	7,789.95	32.52	159.85	-156.90	1,779.80	1,634.90	3,981.69	3,902.61	79.08	50.353	
4,600.00	4,176.08	16,530.00	7,789.95	33.62	159.85	-156.90	1,779.80	1,634.90	3,889.82	3,810.53	79.29	49.060	
4,700.00	4,259.77	16,530.00	7,789.95	34.71	159.85	-156.90	1,779.80	1,634.90	3,798.36	3,718.83	79.54	47.756	
4,800.00	4,343.47	16,530.00	7,789.95	35.80	159.85	-156.90	1,779.80	1,634.90	3,707.35	3,627.52	79.83	46.439	
4,900.00	4,427.17	16,530.00	7,789.95	36.89	159.85	-156.90	1,779.80	1,634.90	3,616.81	3,536.63	80.18	45.109	
5,000.00	4,510.87	16,530.00	7,789.95	37.99	159.85	-156.90	1,779.80	1,634.90	3,526.78	3,446.20	80.58	43.766	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	16,530.00	7,789.95	39.08	159.85	-156.90	1,779.80	1,634.90	3,437.30	3,356.25	81.05	42.410	
5,200.00	4,678.26	16,530.00	7,789.95	40.18	159.85	-156.90	1,779.80	1,634.90	3,348.42	3,266.83	81.59	41.041	
5,300.00	4,761.96	16,530.00	7,789.95	41.28	159.85	-156.90	1,779.80	1,634.90	3,260.18	3,177.97	82.21	39.657	
5,400.00	4,845.66	16,530.00	7,789.95	42.37	159.85	-156.90	1,779.80	1,634.90	3,172.64	3,089.72	82.92	38.260	
5,500.00	4,929.35	16,530.00	7,789.95	43.47	159.85	-156.90	1,779.80	1,634.90	3,085.86	3,002.12	83.74	36.850	
5,600.00	5,013.05	16,530.00	7,789.95	44.57	159.85	-156.90	1,779.80	1,634.90	2,999.90	2,915.22	84.67	35.428	
5,700.00	5,096.75	16,530.00	7,789.95	45.67	159.85	-156.90	1,779.80	1,634.90	2,914.83	2,829.09	85.74	33.996	
5,800.00	5,180.45	16,530.00	7,789.95	46.77	159.85	-156.90	1,779.80	1,634.90	2,830.75	2,743.79	86.96	32.554	
5,900.00	5,264.14	16,530.00	7,789.95	47.87	159.85	-156.90	1,779.80	1,634.90	2,747.73	2,659.39	88.34	31.105	
6,000.00	5,347.84	16,530.00	7,789.95	48.97	159.85	-156.90	1,779.80	1,634.90	2,665.87	2,575.97	89.90	29.653	
6,100.00	5,431.54	16,530.00	7,789.95	50.07	159.85	-156.90	1,779.80	1,634.90	2,585.29	2,493.62	91.67	28.201	
6,200.00	5,515.23	16,530.00	7,789.95	51.17	159.85	-156.90	1,779.80	1,634.90	2,506.11	2,412.44	93.67	26.755	
6,300.00	5,598.93	16,530.00	7,789.95	52.27	159.85	-156.90	1,779.80	1,634.90	2,428.47	2,332.56	95.92	25.319	
6,400.00	5,682.63	16,530.00	7,789.95	53.38	159.85	-156.90	1,779.80	1,634.90	2,352.52	2,254.09	98.43	23.900	
6,500.00	5,766.33	16,530.00	7,789.95	54.48	159.85	-156.90	1,779.80	1,634.90	2,278.42	2,177.18	101.24	22.505	
6,600.00	5,850.02	16,530.00	7,789.95	55.58	159.85	-156.90	1,779.80	1,634.90	2,206.37	2,102.01	104.36	21.141	
6,700.00	5,933.72	16,530.00	7,789.95	56.68	159.85	-156.90	1,779.80	1,634.90	2,136.58	2,028.76	107.82	19.817	
6,800.00	6,017.42	16,530.00	7,789.95	57.79	159.85	-156.90	1,779.80	1,634.90	2,069.26	1,957.65	111.61	18.540	
6,900.00	6,101.12	16,530.00	7,789.95	58.89	159.85	-156.90	1,779.80	1,634.90	2,004.67	1,888.91	115.76	17.318	
7,000.00	6,184.81	16,530.00	7,789.95	59.99	159.85	-156.90	1,779.80	1,634.90	1,943.08	1,822.82	120.26	16.157	
7,100.00	6,268.51	16,530.00	7,789.95	61.10	159.85	-156.90	1,779.80	1,634.90	1,884.79	1,759.69	125.10	15.066	
7,200.00	6,352.21	16,530.00	7,789.95	62.20	159.85	-156.90	1,779.80	1,634.90	1,830.11	1,699.84	130.27	14.049	
7,300.00	6,435.90	16,530.00	7,789.95	63.31	159.85	-156.90	1,779.80	1,634.90	1,779.38	1,643.65	135.72	13.110	
7,400.00	6,519.60	16,530.00	7,789.95	64.41	159.85	-156.90	1,779.80	1,634.90	1,732.93	1,591.51	141.42	12.254	
7,500.00	6,603.30	16,530.00	7,789.95	65.51	159.85	-156.90	1,779.80	1,634.90	1,691.13	1,543.84	147.29	11.482	
7,600.00	6,687.00	16,530.00	7,789.95	66.62	159.85	-156.90	1,779.80	1,634.90	1,654.32	1,501.07	153.25	10.795	
7,700.00	6,770.69	16,530.00	7,789.95	67.72	159.85	-156.90	1,779.80	1,634.90	1,622.85	1,463.63	159.22	10.192	
7,800.00	6,854.39	16,530.00	7,789.95	68.83	159.85	-156.90	1,779.80	1,634.90	1,597.04	1,431.96	165.08	9.674	
7,900.00	6,938.09	16,530.00	7,789.95	69.93	159.85	-156.90	1,779.80	1,634.90	1,577.15	1,406.42	170.72	9.238	
7,933.18	6,965.86	16,530.00	7,789.95	70.30	159.85	-156.90	1,779.80	1,634.90	1,571.90	1,399.37	172.53	9.111	
7,950.00	6,980.00	16,530.00	7,789.95	70.49	159.85	-158.97	1,779.80	1,634.90	1,569.48	1,396.04	173.44	9.049	
8,000.00	7,022.68	16,528.14	7,790.01	71.01	159.82	-165.83	1,781.66	1,634.83	1,563.07	1,386.88	176.19	8.871	
8,050.00	7,066.06	16,520.68	7,790.26	71.51	159.69	-173.48	1,789.11	1,634.53	1,557.87	1,378.82	179.05	8.701	
8,100.00	7,109.82	16,517.56	7,790.36	71.97	159.63	178.03	1,792.23	1,634.40	1,553.96	1,372.11	181.85	8.545	
8,150.00	7,153.63	16,518.78	7,790.32	72.38	159.65	169.18	1,791.01	1,634.45	1,551.40	1,366.86	184.55	8.406	
8,200.00	7,197.14	16,524.35	7,790.14	72.74	159.75	160.47	1,785.45	1,634.68	1,550.22	1,363.09	187.13	8.284	
8,218.89	7,213.44	16,527.57	7,790.03	72.86	159.81	157.29	1,782.23	1,634.81	1,550.13	1,362.07	188.06	8.243	CC
8,250.00	7,240.04	16,534.22	7,789.82	73.05	159.92	152.27	1,775.59	1,635.08	1,550.38	1,360.82	189.56	8.179	
8,300.00	7,281.99	16,530.00	7,789.95	73.31	159.85	145.45	1,779.80	1,634.90	1,551.90	1,359.79	192.11	8.078	ES
8,350.00	7,322.67	16,530.00	7,789.95	73.52	159.85	139.36	1,779.80	1,634.90	1,554.76	1,360.30	194.46	7.995	
8,400.00	7,361.77	16,530.00	7,789.95	73.68	159.85	134.09	1,779.80	1,634.90	1,558.94	1,362.27	196.67	7.927	
8,450.00	7,399.01	16,530.00	7,789.95	73.78	159.85	129.52	1,779.80	1,634.90	1,564.39	1,365.68	198.71	7.873	
8,500.00	7,434.08	16,530.00	7,789.95	73.85	159.85	125.52	1,779.80	1,634.90	1,571.07	1,370.48	200.58	7.832	
8,550.00	7,466.74	16,530.00	7,789.95	73.87	159.85	121.98	1,779.80	1,634.90	1,578.90	1,376.63	202.27	7.806	
8,600.00	7,496.72	16,530.00	7,789.95	73.85	159.85	118.83	1,779.80	1,634.90	1,587.81	1,384.06	203.75	7.793	
8,650.00	7,523.80	16,530.00	7,789.95	73.79	159.85	115.98	1,779.80	1,634.90	1,597.71	1,392.68	205.03	7.793	SF
8,700.00	7,547.77	16,530.00	7,789.95	73.70	159.85	113.39	1,779.80	1,634.90	1,608.51	1,402.41	206.10	7.804	
8,750.00	7,568.45	16,530.00	7,789.95	73.58	159.85	111.01	1,779.80	1,634.90	1,620.11	1,413.15	206.96	7.828	
8,800.00	7,585.69	16,530.00	7,789.95	73.43	159.85	108.82	1,779.80	1,634.90	1,632.41	1,424.81	207.61	7.863	
8,850.00	7,599.35	16,530.00	7,789.95	73.26	159.85	106.81	1,779.80	1,634.90	1,645.30	1,437.26	208.04	7.909	
8,900.00	7,609.33	16,530.00	7,789.95	73.07	159.85	104.96	1,779.80	1,634.90	1,658.67	1,450.40	208.27	7.964	
8,950.00	7,615.55	16,530.00	7,789.95	72.87	159.85	103.27	1,779.80	1,634.90	1,672.40	1,464.12	208.28	8.029	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	16,530.00	7,789.95	72.65	159.85	101.76	1,779.80	1,634.90	1,686.39	1,478.29	208.10	8.104	
9,006.60	7,618.00	16,530.00	7,789.95	72.62	159.85	101.57	1,779.80	1,634.90	1,688.25	1,480.19	208.06	8.114	
9,100.00	7,618.00	16,530.00	7,789.95	72.22	159.85	101.57	1,779.80	1,634.90	1,716.92	1,509.65	207.27	8.283	
9,200.00	7,618.00	16,530.00	7,789.95	71.80	159.85	101.57	1,779.80	1,634.90	1,752.61	1,546.64	205.97	8.509	
9,300.00	7,618.00	16,530.00	7,789.95	71.41	159.85	101.57	1,779.80	1,634.90	1,793.18	1,588.92	204.26	8.779	
9,400.00	7,618.00	16,530.00	7,789.95	71.04	159.85	101.57	1,779.80	1,634.90	1,838.31	1,636.09	202.22	9.091	
9,500.00	7,618.00	16,530.00	7,789.95	70.68	159.85	101.57	1,779.80	1,634.90	1,887.65	1,687.75	199.90	9.443	
9,600.00	7,618.00	16,530.00	7,789.95	70.35	159.85	101.57	1,779.80	1,634.90	1,940.90	1,743.52	197.37	9.834	
9,700.00	7,618.00	16,530.00	7,789.95	70.04	159.85	101.57	1,779.80	1,634.90	1,997.73	1,803.04	194.69	10.261	
9,800.00	7,618.00	16,530.00	7,789.95	69.75	159.85	101.57	1,779.80	1,634.90	2,057.86	1,865.96	191.91	10.723	
9,900.00	7,618.00	16,530.00	7,789.95	69.47	159.85	101.57	1,779.80	1,634.90	2,121.00	1,931.94	189.06	11.219	
10,000.00	7,618.00	16,530.00	7,789.95	69.22	159.85	101.57	1,779.80	1,634.90	2,186.89	2,000.71	186.19	11.746	
10,100.00	7,618.00	16,530.00	7,789.95	68.99	159.85	101.57	1,779.80	1,634.90	2,255.30	2,071.98	183.32	12.303	
10,200.00	7,618.00	16,530.00	7,789.95	68.78	159.85	101.57	1,779.80	1,634.90	2,325.99	2,145.51	180.48	12.888	
10,300.00	7,618.00	16,530.00	7,789.95	68.59	159.85	101.57	1,779.80	1,634.90	2,398.76	2,221.08	177.68	13.500	
10,400.00	7,618.00	16,530.00	7,789.95	68.42	159.85	101.57	1,779.80	1,634.90	2,473.44	2,298.50	174.94	14.139	
10,500.00	7,618.00	16,530.00	7,789.95	68.28	159.85	101.57	1,779.80	1,634.90	2,549.86	2,377.58	172.28	14.801	
10,600.00	7,618.00	16,530.00	7,789.95	68.16	159.85	101.57	1,779.80	1,634.90	2,627.86	2,458.17	169.69	15.486	
10,700.00	7,618.00	16,530.00	7,789.95	68.06	159.85	101.57	1,779.80	1,634.90	2,707.30	2,540.12	167.18	16.193	
10,800.00	7,618.00	16,530.00	7,789.95	67.99	159.85	101.57	1,779.80	1,634.90	2,788.07	2,623.31	164.77	16.921	
10,900.00	7,618.00	16,530.00	7,789.95	67.95	159.85	101.57	1,779.80	1,634.90	2,870.05	2,707.62	162.43	17.669	
11,000.00	7,618.00	16,530.00	7,789.95	67.95	159.85	101.57	1,779.80	1,634.90	2,953.14	2,792.96	160.19	18.435	
11,100.00	7,618.00	16,530.00	7,789.95	67.97	159.85	101.57	1,779.80	1,634.90	3,037.26	2,879.23	158.03	19.220	
11,200.00	7,618.00	16,530.00	7,789.95	68.04	159.85	101.57	1,779.80	1,634.90	3,122.30	2,966.35	155.96	20.020	
11,300.00	7,618.00	16,530.00	7,789.95	68.15	159.85	101.57	1,779.80	1,634.90	3,208.21	3,054.25	153.97	20.837	
11,400.00	7,618.00	16,530.00	7,789.95	68.30	159.85	101.57	1,779.80	1,634.90	3,294.92	3,142.86	152.06	21.669	
11,500.00	7,618.00	16,530.00	7,789.95	68.50	159.85	101.57	1,779.80	1,634.90	3,382.36	3,232.13	150.23	22.515	
11,600.00	7,618.00	16,530.00	7,789.95	68.75	159.85	101.57	1,779.80	1,634.90	3,470.48	3,322.00	148.47	23.375	
11,700.00	7,618.00	16,530.00	7,789.95	69.06	159.85	101.57	1,779.80	1,634.90	3,559.22	3,412.43	146.79	24.247	
11,800.00	7,618.00	16,530.00	7,789.95	69.44	159.85	101.57	1,779.80	1,634.90	3,648.55	3,503.38	145.17	25.132	
11,900.00	7,618.00	16,530.00	7,789.95	69.88	159.85	101.57	1,779.80	1,634.90	3,738.42	3,594.79	143.63	26.029	
12,000.00	7,618.00	16,530.00	7,789.95	70.39	159.85	101.57	1,779.80	1,634.90	3,828.79	3,686.65	142.14	26.936	
12,100.00	7,618.00	16,530.00	7,789.95	70.97	159.85	101.57	1,779.80	1,634.90	3,919.63	3,778.91	140.72	27.854	
12,200.00	7,618.00	16,530.00	7,789.95	71.63	159.85	101.57	1,779.80	1,634.90	4,010.90	3,871.55	139.36	28.782	
12,300.00	7,618.00	16,530.00	7,789.95	72.35	159.85	101.57	1,779.80	1,634.90	4,102.58	3,964.54	138.05	29.719	
12,400.00	7,618.00	16,530.00	7,789.95	73.15	159.85	101.57	1,779.80	1,634.90	4,194.65	4,057.86	136.79	30.665	
12,500.00	7,618.00	16,530.00	7,789.95	74.01	159.85	101.57	1,779.80	1,634.90	4,287.06	4,151.48	135.58	31.620	
12,600.00	7,618.00	16,530.00	7,789.95	74.93	159.85	101.57	1,779.80	1,634.90	4,379.81	4,245.39	134.42	32.582	
12,700.00	7,618.00	16,530.00	7,789.95	75.91	159.85	101.57	1,779.80	1,634.90	4,472.88	4,339.57	133.31	33.552	
12,800.00	7,618.00	16,530.00	7,789.95	76.95	159.85	101.57	1,779.80	1,634.90	4,566.23	4,433.99	132.24	34.530	
12,900.00	7,618.00	16,530.00	7,789.95	78.04	159.85	101.57	1,779.80	1,634.90	4,659.86	4,528.65	131.21	35.514	
13,000.00	7,618.00	16,530.00	7,789.95	79.16	159.85	101.57	1,779.80	1,634.90	4,753.75	4,623.53	130.22	36.505	
13,100.00	7,618.00	16,530.00	7,789.95	80.33	159.85	101.57	1,779.80	1,634.90	4,847.89	4,718.62	129.27	37.501	
13,200.00	7,618.00	16,530.00	7,789.95	81.54	159.85	101.57	1,779.80	1,634.90	4,942.26	4,813.90	128.36	38.504	
13,300.00	7,618.00	16,530.00	7,789.95	82.78	159.85	101.57	1,779.80	1,634.90	5,036.84	4,909.36	127.48	39.512	
13,400.00	7,618.00	16,530.00	7,789.95	84.05	159.85	101.57	1,779.80	1,634.90	5,131.63	5,005.00	126.63	40.525	
13,500.00	7,618.00	16,530.00	7,789.95	85.35	159.85	101.57	1,779.80	1,634.90	5,226.61	5,100.80	125.81	41.544	
13,600.00	7,618.00	16,530.00	7,789.95	86.67	159.85	101.57	1,779.80	1,634.90	5,321.78	5,196.76	125.02	42.567	
13,700.00	7,618.00	16,530.00	7,789.95	88.02	159.85	101.57	1,779.80	1,634.90	5,417.12	5,292.86	124.26	43.594	
13,800.00	7,618.00	16,530.00	7,789.95	89.38	159.85	101.57	1,779.80	1,634.90	5,512.62	5,389.09	123.53	44.626	
13,900.00	7,618.00	16,530.00	7,789.95	90.77	159.85	101.57	1,779.80	1,634.90	5,608.29	5,485.46	122.82	45.661	
14,000.00	7,618.00	16,530.00	7,789.95	92.17	159.85	101.57	1,779.80	1,634.90	5,704.10	5,581.96	122.14	46.701	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,618.00	16,530.00	7,789.95	93.59	159.85	101.57	1,779.80	1,634.90	5,800.05	5,678.57	121.48	47.743	
14,200.00	7,618.00	16,530.00	7,789.95	95.02	159.85	101.57	1,779.80	1,634.90	5,896.14	5,775.29	120.85	48.789	
14,300.00	7,618.00	16,530.00	7,789.95	96.47	159.85	101.57	1,779.80	1,634.90	5,992.35	5,872.12	120.24	49.839	
14,400.00	7,618.00	16,530.00	7,789.95	97.93	159.85	101.57	1,779.80	1,634.90	6,088.69	5,969.05	119.64	50.891	
14,500.00	7,618.00	16,530.00	7,789.95	99.41	159.85	101.57	1,779.80	1,634.90	6,185.15	6,066.08	119.07	51.946	
14,600.00	7,618.00	16,530.00	7,789.95	100.89	159.85	101.57	1,779.80	1,634.90	6,281.71	6,163.19	118.52	53.003	
14,700.00	7,618.00	16,530.00	7,789.95	102.38	159.85	101.57	1,779.80	1,634.90	6,378.38	6,260.40	117.98	54.063	
14,800.00	7,618.00	16,530.00	7,789.95	103.89	159.85	101.57	1,779.80	1,634.90	6,475.15	6,357.69	117.46	55.126	
14,900.00	7,618.00	16,530.00	7,789.95	105.40	159.85	101.57	1,779.80	1,634.90	6,572.02	6,455.06	116.96	56.190	
15,000.00	7,618.00	16,530.00	7,789.95	106.92	159.85	101.57	1,779.80	1,634.90	6,668.98	6,552.51	116.48	57.257	
15,100.00	7,618.00	16,530.00	7,789.95	108.45	159.85	101.57	1,779.80	1,634.90	6,766.03	6,650.02	116.01	58.325	
15,200.00	7,618.00	16,530.00	7,789.95	109.99	159.85	101.57	1,779.80	1,634.90	6,863.16	6,747.61	115.55	59.395	
15,300.00	7,618.00	16,530.00	7,789.95	111.54	159.85	101.57	1,779.80	1,634.90	6,960.38	6,845.27	115.11	60.467	
15,400.00	7,618.00	16,530.00	7,789.95	113.09	159.85	101.57	1,779.80	1,634.90	7,057.67	6,942.99	114.68	61.540	
15,500.00	7,618.00	16,530.00	7,789.95	114.65	159.85	101.57	1,779.80	1,634.90	7,155.04	7,040.77	114.27	62.615	
15,600.00	7,618.00	16,530.00	7,789.95	116.21	159.85	101.57	1,779.80	1,634.90	7,252.48	7,138.61	113.87	63.691	
15,700.00	7,618.00	16,530.00	7,789.95	117.78	159.85	101.57	1,779.80	1,634.90	7,349.99	7,236.50	113.48	64.768	
15,800.00	7,618.00	16,530.00	7,789.95	119.36	159.85	101.57	1,779.80	1,634.90	7,447.56	7,334.45	113.11	65.846	
15,900.00	7,618.00	16,530.00	7,789.95	120.94	159.85	101.57	1,779.80	1,634.90	7,545.20	7,432.46	112.74	66.925	
16,000.00	7,618.00	16,530.00	7,789.95	122.53	159.85	101.57	1,779.80	1,634.90	7,642.90	7,530.51	112.39	68.005	
16,100.00	7,618.00	16,530.00	7,789.95	124.12	159.85	101.57	1,779.80	1,634.90	7,740.65	7,628.61	112.04	69.086	
16,200.00	7,618.00	16,530.00	7,789.95	125.72	159.85	101.57	1,779.80	1,634.90	7,838.47	7,726.76	111.71	70.167	
16,300.00	7,618.00	16,530.00	7,789.95	127.32	159.85	101.57	1,779.80	1,634.90	7,936.34	7,824.95	111.39	71.249	
16,400.00	7,618.00	16,530.00	7,789.95	128.93	159.85	101.57	1,779.80	1,634.90	8,034.26	7,923.18	111.08	72.332	
16,500.00	7,618.00	16,530.00	7,789.95	130.54	159.85	101.57	1,779.80	1,634.90	8,132.23	8,021.46	110.77	73.415	
16,600.00	7,618.00	16,530.00	7,789.95	132.15	159.85	101.57	1,779.80	1,634.90	8,230.25	8,119.77	110.48	74.498	
16,700.00	7,618.00	16,530.00	7,789.95	133.77	159.85	101.57	1,779.80	1,634.90	8,328.32	8,218.13	110.19	75.582	
16,800.00	7,618.00	16,530.00	7,789.95	135.39	159.85	101.57	1,779.80	1,634.90	8,426.43	8,316.52	109.91	76.666	
16,900.00	7,618.00	16,530.00	7,789.95	137.01	159.85	101.57	1,779.80	1,634.90	8,524.59	8,414.95	109.64	77.750	
17,000.00	7,618.00	16,530.00	7,789.95	138.64	159.85	101.57	1,779.80	1,634.90	8,622.79	8,513.41	109.38	78.834	
17,100.00	7,618.00	16,530.00	7,789.95	140.27	159.85	101.57	1,779.80	1,634.90	8,721.03	8,611.90	109.12	79.919	
17,200.00	7,618.00	16,530.00	7,789.95	141.91	159.85	101.57	1,779.80	1,634.90	8,819.30	8,710.43	108.88	81.003	
17,300.00	7,618.00	16,530.00	7,789.95	143.55	159.85	101.57	1,779.80	1,634.90	8,917.62	8,808.99	108.64	82.087	
17,400.00	7,618.00	16,530.00	7,789.95	145.19	159.85	101.57	1,779.80	1,634.90	9,015.98	8,907.58	108.40	83.172	
17,500.00	7,618.00	16,530.00	7,789.95	146.83	159.85	101.57	1,779.80	1,634.90	9,114.37	9,006.19	108.18	84.256	
17,600.00	7,618.00	16,530.00	7,789.95	148.48	159.85	101.57	1,779.80	1,634.90	9,212.79	9,104.84	107.95	85.339	
17,700.00	7,618.00	16,530.00	7,789.95	150.13	159.85	101.57	1,779.80	1,634.90	9,311.25	9,203.51	107.74	86.423	
17,800.00	7,618.00	16,530.00	7,789.95	151.78	159.85	101.57	1,779.80	1,634.90	9,409.74	9,302.21	107.53	87.506	
17,900.00	7,618.00	16,530.00	7,789.95	153.43	159.85	101.57	1,779.80	1,634.90	9,508.27	9,400.94	107.33	88.589	
18,000.00	7,618.00	16,530.00	7,789.95	155.09	159.85	101.57	1,779.80	1,634.90	9,606.82	9,499.69	107.13	89.671	
18,100.00	7,618.00	16,530.00	7,789.95	156.75	159.85	101.57	1,779.80	1,634.90	9,705.40	9,598.46	106.94	90.753	
18,200.00	7,618.00	16,530.00	7,789.95	158.41	159.85	101.57	1,779.80	1,634.90	9,804.01	9,697.26	106.76	91.834	
18,300.00	7,618.00	16,530.00	7,789.95	160.07	159.85	101.57	1,779.80	1,634.90	9,902.65	9,796.08	106.58	92.915	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-54.20	786.89	-1,090.86	1,345.10				
100.00	100.00	83.72	83.72	0.13	0.13	-54.20	786.92	-1,091.00	1,345.19	1,344.92	0.27	5,056.061	
200.00	200.00	178.85	178.85	0.49	0.28	-54.21	787.02	-1,091.51	1,345.69	1,344.91	0.77	1,739.096	ES
300.00	300.00	275.98	275.98	0.85	0.62	-54.22	787.25	-1,092.29	1,346.48	1,345.01	1.47	915.956	
400.00	400.00	374.23	374.22	1.21	0.97	-54.23	787.68	-1,093.18	1,347.47	1,345.29	2.18	617.971	
500.00	500.00	480.15	480.13	1.57	1.35	-54.23	788.06	-1,093.96	1,348.27	1,345.35	2.92	461.985	
600.00	600.00	560.85	560.83	1.93	1.64	-54.24	788.37	-1,094.61	1,349.24	1,345.67	3.57	378.317	
700.00	700.00	615.23	615.18	2.29	1.84	-54.24	789.49	-1,096.08	1,352.77	1,348.65	4.12	328.313	
800.00	800.00	654.00	653.85	2.64	1.98	-54.21	791.56	-1,097.92	1,360.14	1,355.53	4.61	294.867	
900.00	900.00	726.37	725.79	3.00	2.25	-54.10	798.02	-1,102.35	1,370.52	1,365.30	5.22	262.429	
1,000.00	999.98	800.21	798.88	3.36	2.52	-110.91	807.04	-1,107.57	1,384.02	1,378.18	5.84	237.164	
1,100.00	1,099.84	882.85	880.52	3.71	2.85	-110.56	818.06	-1,114.15	1,400.17	1,393.69	6.48	216.066	
1,200.00	1,199.45	969.41	965.88	4.07	3.20	-110.28	830.39	-1,121.47	1,418.46	1,411.32	7.15	198.441	
1,300.00	1,298.70	1,077.82	1,072.70	4.44	3.66	-110.10	846.57	-1,130.54	1,438.32	1,430.40	7.92	181.667	
1,400.00	1,397.47	1,182.16	1,175.56	4.82	4.10	-109.98	862.52	-1,137.66	1,458.32	1,449.63	8.69	167.868	
1,500.00	1,495.62	1,283.56	1,275.62	5.22	4.53	-110.00	877.36	-1,144.76	1,479.32	1,469.85	9.46	156.295	
1,600.00	1,593.06	1,387.09	1,377.83	5.65	4.97	-110.15	892.03	-1,152.29	1,501.54	1,491.26	10.27	146.153	
1,700.00	1,689.64	1,517.91	1,507.37	6.11	5.52	-110.60	908.77	-1,159.44	1,522.65	1,511.43	11.23	135.641	
1,800.00	1,785.27	1,611.97	1,600.56	6.61	5.91	-110.89	920.67	-1,164.11	1,544.91	1,532.86	12.05	128.192	
1,900.00	1,879.82	1,699.60	1,687.43	7.15	6.27	-111.22	931.08	-1,169.12	1,568.87	1,555.99	12.88	121.796	
2,000.00	1,973.17	1,786.06	1,773.17	7.73	6.63	-111.65	940.20	-1,175.30	1,594.91	1,581.17	13.74	116.104	
2,100.00	2,065.21	1,892.45	1,878.73	8.37	7.07	-112.37	951.15	-1,182.91	1,622.64	1,607.92	14.72	110.247	
2,200.00	2,155.84	1,977.25	1,962.83	9.07	7.42	-112.83	960.70	-1,187.94	1,651.69	1,636.04	15.65	105.561	
2,300.00	2,244.94	2,092.69	2,077.34	9.82	7.89	-113.69	974.01	-1,194.09	1,682.36	1,665.60	16.76	100.396	
2,400.00	2,332.39	2,176.33	2,160.32	10.64	8.23	-114.18	983.82	-1,197.81	1,714.40	1,696.64	17.76	96.508	
2,500.00	2,418.11	2,252.79	2,236.14	11.53	8.55	-114.57	993.01	-1,201.37	1,748.83	1,730.05	18.78	93.142	
2,558.91	2,467.74	2,302.97	2,285.90	12.08	8.75	-114.88	999.00	-1,203.88	1,770.26	1,750.85	19.41	91.195	
2,600.00	2,502.13	2,338.12	2,320.77	12.47	8.90	-115.39	1,003.02	-1,205.71	1,785.54	1,765.68	19.86	89.908	
2,700.00	2,585.83	2,420.03	2,402.06	13.45	9.23	-116.59	1,012.04	-1,210.15	1,823.35	1,802.42	20.93	87.113	
2,800.00	2,669.53	2,510.29	2,491.61	14.44	9.60	-117.84	1,022.28	-1,214.81	1,861.90	1,839.86	22.04	84.460	
2,900.00	2,753.22	2,602.43	2,583.05	15.46	9.98	-119.07	1,032.83	-1,219.14	1,900.89	1,877.72	23.17	82.050	
3,000.00	2,836.92	2,694.17	2,674.16	16.48	10.35	-120.26	1,042.73	-1,223.29	1,940.24	1,915.96	24.28	79.910	
3,100.00	2,920.62	2,783.75	2,763.10	17.52	10.71	-121.37	1,052.74	-1,226.91	1,980.00	1,954.62	25.38	78.020	
3,200.00	3,004.32	2,871.52	2,850.22	18.56	11.07	-122.41	1,062.86	-1,230.19	2,020.24	1,993.78	26.46	76.346	
3,300.00	3,088.01	2,960.52	2,938.66	19.61	11.43	-123.44	1,072.30	-1,233.46	2,060.77	2,033.23	27.54	74.832	
3,400.00	3,171.71	3,021.32	2,999.08	20.67	11.67	-124.14	1,078.52	-1,236.14	2,102.38	2,073.93	28.45	73.898	
3,500.00	3,255.41	3,076.27	3,053.63	21.73	11.89	-124.75	1,084.39	-1,239.17	2,145.56	2,116.25	29.31	73.193	
3,600.00	3,339.10	3,130.58	3,107.44	22.80	12.12	-125.33	1,090.83	-1,242.81	2,190.42	2,160.26	30.16	72.632	
3,700.00	3,422.80	3,212.49	3,188.50	23.87	12.47	-126.17	1,100.97	-1,248.72	2,236.29	2,205.13	31.16	71.762	
3,800.00	3,506.50	3,322.41	3,297.43	24.94	12.93	-127.27	1,113.61	-1,256.26	2,282.15	2,249.82	32.33	70.597	
3,900.00	3,590.20	3,436.44	3,410.65	26.02	13.39	-128.39	1,125.29	-1,263.14	2,327.56	2,294.07	33.49	69.498	
4,000.00	3,673.89	3,531.74	3,505.36	27.10	13.77	-129.29	1,134.95	-1,267.57	2,372.16	2,337.62	34.54	68.679	
4,100.00	3,757.59	3,599.78	3,572.89	28.18	14.05	-129.89	1,142.50	-1,270.84	2,417.47	2,382.05	35.42	68.244	
4,200.00	3,841.29	3,663.30	3,635.87	29.26	14.31	-130.43	1,150.05	-1,274.33	2,463.81	2,427.54	36.27	67.924	
4,300.00	3,924.99	3,740.24	3,712.12	30.35	14.63	-131.06	1,159.22	-1,278.97	2,510.92	2,473.72	37.20	67.500	
4,400.00	4,008.68	3,851.22	3,822.27	31.44	15.09	-131.97	1,171.08	-1,285.42	2,557.99	2,519.66	38.32	66.748	
4,500.00	4,092.38	3,933.24	3,903.76	32.52	15.42	-132.63	1,179.25	-1,289.87	2,604.96	2,565.71	39.25	66.366	
4,600.00	4,176.08	4,003.67	3,973.69	33.62	15.71	-133.18	1,186.60	-1,293.86	2,652.48	2,612.38	40.10	66.141	
4,700.00	4,259.77	4,141.66	4,110.92	34.71	16.25	-134.24	1,199.21	-1,300.66	2,699.48	2,658.12	41.36	65.272	
4,800.00	4,343.47	4,220.87	4,189.84	35.80	16.55	-134.85	1,205.16	-1,303.98	2,746.07	2,703.84	42.23	65.027	
4,900.00	4,427.17	4,286.22	4,254.88	36.89	16.81	-135.33	1,210.85	-1,306.98	2,793.37	2,750.36	43.02	64.936	
5,000.00	4,510.87	4,352.17	4,320.44	37.99	17.07	-135.79	1,217.09	-1,310.38	2,841.48	2,797.67	43.81	64.864	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	4,426.41	4,394.21	39.08	17.37	-136.29	1,224.26	-1,314.59	2,890.26	2,845.61	44.65	64.738	
5,200.00	4,678.26	4,502.83	4,470.11	40.18	17.68	-136.78	1,231.97	-1,319.05	2,939.43	2,893.94	45.50	64.610	
5,300.00	4,761.96	4,573.86	4,540.64	41.28	17.96	-137.23	1,239.21	-1,323.44	2,989.11	2,942.80	46.30	64.553	
5,400.00	4,845.66	4,649.18	4,615.39	42.37	18.27	-137.68	1,247.05	-1,328.34	3,039.26	2,992.12	47.14	64.473	
5,500.00	4,929.35	4,785.89	4,750.94	43.47	18.84	-138.45	1,262.87	-1,336.26	3,089.10	3,040.68	48.42	63.803	
5,600.00	5,013.05	4,890.19	4,854.21	44.57	19.28	-138.96	1,276.81	-1,340.68	3,137.76	3,088.28	49.48	63.412	
5,700.00	5,096.75	4,960.73	4,924.04	45.67	19.58	-139.30	1,286.37	-1,343.68	3,186.63	3,136.32	50.31	63.341	
5,800.00	5,180.45	5,025.88	4,988.45	46.77	19.85	-139.60	1,295.63	-1,346.88	3,236.18	3,185.08	51.10	63.336	
5,900.00	5,264.14	5,136.64	5,098.13	47.87	20.32	-140.11	1,310.09	-1,352.11	3,285.65	3,233.45	52.20	62.943	
6,000.00	5,347.84	5,227.21	5,188.05	48.97	20.69	-140.55	1,320.18	-1,356.01	3,334.87	3,281.73	53.13	62.764	
6,100.00	5,431.54	5,312.35	5,272.60	50.07	21.03	-140.95	1,329.50	-1,359.64	3,384.18	3,330.15	54.02	62.643	
6,200.00	5,515.23	5,395.18	5,354.84	51.17	21.37	-141.33	1,338.77	-1,363.11	3,433.56	3,378.67	54.90	62.545	
6,300.00	5,598.93	5,463.00	5,422.10	52.27	21.65	-141.63	1,346.93	-1,366.14	3,483.31	3,427.64	55.67	62.572	
6,400.00	5,682.63	5,524.03	5,482.55	53.38	21.90	-141.88	1,354.66	-1,369.22	3,533.65	3,477.26	56.39	62.661	
6,500.00	5,766.33	5,604.23	5,561.99	54.48	22.24	-142.20	1,364.83	-1,373.73	3,584.57	3,527.31	57.26	62.606	
6,600.00	5,850.02	5,688.44	5,645.49	55.58	22.59	-142.54	1,374.66	-1,378.30	3,635.43	3,577.29	58.14	62.533	
6,700.00	5,933.72	5,749.86	5,706.46	56.68	22.84	-142.80	1,381.24	-1,381.77	3,686.63	3,627.79	58.84	62.658	
6,800.00	6,017.42	5,793.38	5,749.60	57.79	23.02	-142.97	1,386.18	-1,384.66	3,738.71	3,679.31	59.40	62.940	
6,900.00	6,101.12	5,854.36	5,809.94	58.89	23.28	-143.20	1,393.67	-1,389.35	3,791.69	3,731.59	60.10	63.090	
7,000.00	6,184.81	5,969.26	5,923.65	59.99	23.77	-143.62	1,407.65	-1,397.98	3,844.70	3,783.48	61.22	62.801	
7,100.00	6,268.51	6,064.57	6,018.21	61.10	24.16	-143.98	1,417.86	-1,404.29	3,897.03	3,834.86	62.17	62.687	
7,200.00	6,352.21	6,130.61	6,083.73	62.20	24.44	-144.22	1,424.77	-1,408.73	3,949.56	3,886.68	62.88	62.806	
7,300.00	6,435.90	6,191.52	6,144.13	63.31	24.69	-144.45	1,431.19	-1,413.18	4,002.65	3,939.09	63.56	62.972	
7,400.00	6,519.60	6,255.70	6,207.74	64.41	24.96	-144.67	1,438.20	-1,418.19	4,056.22	3,991.96	64.26	63.117	
7,500.00	6,603.30	6,369.31	6,320.32	65.51	25.43	-145.06	1,450.71	-1,426.98	4,109.83	4,044.47	65.36	62.885	
7,600.00	6,687.00	6,501.27	6,451.34	66.62	25.97	-145.52	1,463.69	-1,435.71	4,162.61	4,096.05	66.56	62.538	
7,700.00	6,770.69	6,666.16	6,615.07	67.72	26.63	-146.05	1,481.41	-1,443.82	4,213.86	4,145.84	68.01	61.957	
7,800.00	6,854.39	6,740.50	6,689.06	68.83	26.92	-146.30	1,487.86	-1,446.86	4,264.75	4,195.98	68.77	62.015	
7,900.00	6,938.09	6,807.71	6,755.98	69.93	27.18	-146.53	1,493.34	-1,449.82	4,316.02	4,246.56	69.47	62.130	
7,933.18	6,965.86	6,830.85	6,779.03	70.30	27.27	-146.61	1,495.21	-1,450.89	4,333.12	4,263.42	69.70	62.164	
7,950.00	6,980.00	6,842.61	6,790.73	70.49	27.32	-149.98	1,496.16	-1,451.45	4,341.82	4,272.00	69.82	62.183	
8,000.00	7,022.68	6,877.84	6,825.80	71.01	27.45	-160.67	1,499.01	-1,453.15	4,367.87	4,297.70	70.16	62.252	
8,050.00	7,066.06	6,923.46	6,871.24	71.51	27.63	-172.20	1,502.56	-1,455.38	4,394.00	4,323.44	70.55	62.281	
8,100.00	7,109.82	6,973.93	6,921.54	71.97	27.82	175.83	1,505.88	-1,457.71	4,419.90	4,348.96	70.94	62.304	
8,150.00	7,153.63	7,017.70	6,965.20	72.38	27.98	163.91	1,508.33	-1,459.66	4,445.42	4,374.17	71.25	62.391	
8,200.00	7,197.14	7,060.49	7,007.89	72.74	28.13	152.59	1,510.45	-1,461.53	4,470.40	4,398.88	71.53	62.500	
8,250.00	7,240.04	7,097.03	7,044.37	73.05	28.26	142.22	1,511.85	-1,463.11	4,494.72	4,422.99	71.73	62.664	
8,300.00	7,281.99	7,131.97	7,079.27	73.31	28.38	133.01	1,512.41	-1,464.61	4,518.25	4,446.36	71.89	62.850	
8,350.00	7,322.67	7,157.00	7,104.28	73.52	28.46	124.94	1,512.34	-1,465.67	4,540.86	4,468.89	71.97	63.093	
8,400.00	7,361.77	7,157.00	7,104.28	73.68	28.46	117.81	1,512.34	-1,465.67	4,562.62	4,490.73	71.89	63.470	
8,450.00	7,399.01	7,157.00	7,104.28	73.78	28.46	111.65	1,512.34	-1,465.67	4,583.44	4,511.66	71.79	63.846	
8,500.00	7,434.08	7,157.00	7,104.28	73.85	28.46	106.35	1,512.34	-1,465.67	4,603.20	4,531.52	71.68	64.217	
8,550.00	7,466.74	7,196.03	7,143.22	73.87	28.56	102.18	1,510.78	-1,467.76	4,621.10	4,549.32	71.78	64.378	
8,600.00	7,496.72	7,204.11	7,151.26	73.85	28.59	98.40	1,510.17	-1,468.30	4,638.04	4,566.32	71.71	64.674	
8,650.00	7,523.80	7,211.71	7,158.81	73.79	28.61	95.19	1,509.51	-1,468.83	4,653.50	4,581.85	71.65	64.949	
8,700.00	7,547.77	7,246.00	7,192.74	73.70	28.70	92.80	1,505.47	-1,471.67	4,667.70	4,595.97	71.72	65.081	
8,750.00	7,568.45	7,246.00	7,192.74	73.58	28.70	90.52	1,505.47	-1,471.67	4,679.82	4,608.18	71.64	65.325	
8,800.00	7,585.69	7,246.00	7,192.74	73.43	28.70	88.66	1,505.47	-1,471.67	4,690.28	4,618.71	71.57	65.532	
8,850.00	7,599.35	7,246.00	7,192.74	73.26	28.70	87.20	1,505.47	-1,471.67	4,699.00	4,627.47	71.52	65.699	
8,900.00	7,609.33	7,246.00	7,192.74	73.07	28.70	86.11	1,505.47	-1,471.67	4,705.93	4,634.43	71.50	65.821	
8,950.00	7,615.55	7,246.00	7,192.74	72.87	28.70	85.38	1,505.47	-1,471.67	4,711.01	4,639.52	71.49	65.897	
9,000.00	7,617.97	7,246.00	7,192.74	72.65	28.70	84.99	1,505.47	-1,471.67	4,714.23	4,642.73	71.51	65.925	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,006.60	7,618.00	7,246.00	7,192.74	72.62	28.70	84.97	1,505.47	-1,471.67	4,714.52	4,643.01	71.51	65.926	
9,100.00	7,618.00	7,246.00	7,192.74	72.22	28.70	84.97	1,505.47	-1,471.67	4,719.22	4,647.64	71.59	65.922	
9,200.00	7,618.00	7,246.00	7,192.74	71.80	28.70	84.97	1,505.47	-1,471.67	4,726.31	4,654.61	71.69	65.924	
9,300.00	7,618.00	7,246.00	7,192.74	71.41	28.70	84.97	1,505.47	-1,471.67	4,735.49	4,663.67	71.82	65.933	
9,400.00	7,618.00	8,248.95	7,901.18	71.04	29.20	93.57	893.44	-1,517.06	4,745.07	4,673.88	71.18	66.659	
9,461.74	7,618.00	8,283.67	7,908.36	70.82	29.25	93.65	859.47	-1,516.62	4,744.89	4,673.60	71.28	66.564	
9,500.00	7,618.00	8,315.00	7,913.84	70.68	29.30	93.72	828.63	-1,516.45	4,744.97	4,673.66	71.31	66.538	
9,600.00	7,618.00	8,441.63	7,926.12	70.35	29.65	93.87	702.68	-1,515.78	4,744.72	4,673.29	71.43	66.425	
9,700.00	7,618.00	8,637.60	7,928.78	70.04	30.55	93.90	506.76	-1,513.04	4,742.85	4,671.09	71.77	66.088	
9,800.00	7,618.00	8,671.00	7,928.59	69.75	30.73	93.90	473.37	-1,512.46	4,741.01	4,668.76	72.24	65.624	
9,887.97	7,618.00	8,711.16	7,928.11	69.51	30.98	93.90	433.22	-1,512.26	4,740.40	4,667.66	72.74	65.167	
9,900.00	7,618.00	8,714.98	7,928.06	69.47	31.01	93.90	429.40	-1,512.28	4,740.41	4,667.60	72.81	65.111	
10,000.00	7,618.00	8,760.00	7,927.22	69.22	31.29	93.89	384.39	-1,513.03	4,741.36	4,667.95	73.41	64.589	
10,100.00	7,618.00	8,760.00	7,927.22	68.99	31.29	93.89	384.39	-1,513.03	4,743.75	4,669.80	73.94	64.155	
10,200.00	7,618.00	8,822.64	7,926.65	68.78	31.74	93.88	321.80	-1,515.30	4,747.20	4,672.50	74.70	63.548	
10,300.00	7,618.00	9,102.25	7,937.87	68.59	34.06	94.01	42.57	-1,522.21	4,749.72	4,672.97	76.75	61.889	
10,400.00	7,618.00	9,217.55	7,940.46	68.42	35.17	94.04	-72.70	-1,522.77	4,750.02	4,671.81	78.21	60.732	
10,500.00	7,618.00	9,356.26	7,942.72	68.28	36.61	94.07	-211.38	-1,522.72	4,749.78	4,669.74	80.04	59.341	
10,600.00	7,618.00	9,471.66	7,944.81	68.16	37.88	94.09	-326.77	-1,521.92	4,748.87	4,667.03	81.84	58.026	
10,700.00	7,618.00	9,587.63	7,946.78	68.06	39.23	94.12	-442.71	-1,520.77	4,747.66	4,663.86	83.79	56.660	
10,800.00	7,618.00	9,719.87	7,947.98	67.99	40.83	94.13	-574.94	-1,519.09	4,746.17	4,660.11	86.05	55.154	
10,900.00	7,618.00	9,778.27	7,948.04	67.95	41.56	94.13	-633.33	-1,518.21	4,744.43	4,656.87	87.56	54.183	
11,000.00	7,618.00	9,829.00	7,948.24	67.95	42.20	94.14	-684.06	-1,518.15	4,743.90	4,654.89	89.01	53.294	
11,005.26	7,618.00	9,829.00	7,948.24	67.95	42.20	94.14	-684.06	-1,518.15	4,743.90	4,654.84	89.06	53.266	
11,100.00	7,618.00	9,902.04	7,948.99	67.97	43.14	94.15	-757.09	-1,518.60	4,744.21	4,653.42	90.79	52.254	
11,200.00	7,618.00	10,003.37	7,950.24	68.04	44.47	94.16	-858.41	-1,519.33	4,744.68	4,651.68	93.00	51.018	
11,300.00	7,618.00	10,122.98	7,950.49	68.15	46.08	94.16	-978.02	-1,519.89	4,744.80	4,649.26	95.54	49.661	
11,400.00	7,618.00	10,206.29	7,949.27	68.30	47.23	94.15	-1,061.32	-1,520.40	4,744.97	4,647.33	97.64	48.594	
11,500.00	7,618.00	10,285.37	7,948.81	68.50	48.33	94.14	-1,140.39	-1,521.20	4,745.60	4,645.87	99.73	47.583	
11,600.00	7,618.00	10,407.52	7,948.67	68.75	50.06	94.14	-1,262.53	-1,522.34	4,746.19	4,643.65	102.54	46.288	
11,700.00	7,618.00	10,526.59	7,947.73	69.06	51.78	94.13	-1,381.60	-1,522.96	4,746.30	4,640.94	105.37	45.045	
11,800.00	7,618.00	10,638.81	7,947.19	69.44	53.43	94.12	-1,493.82	-1,523.18	4,746.12	4,637.96	108.16	43.880	
11,900.00	7,618.00	10,818.20	7,950.91	69.88	56.11	94.17	-1,673.15	-1,521.69	4,745.22	4,633.05	112.17	42.303	
12,000.00	7,618.00	10,875.44	7,951.90	70.39	56.98	94.18	-1,730.38	-1,521.01	4,743.76	4,629.59	114.16	41.552	
12,100.00	7,618.00	11,001.71	7,951.92	70.97	58.90	94.18	-1,856.64	-1,519.97	4,742.66	4,625.27	117.38	40.404	
12,200.00	7,618.00	11,113.53	7,950.81	71.63	60.63	94.17	-1,968.44	-1,518.08	4,740.52	4,620.12	120.40	39.374	
12,300.00	7,618.00	12,300.00	7,952.52	72.35	79.20	94.19	-2,091.49	-1,515.91	4,738.56	4,598.23	140.33	33.768	
12,400.00	7,618.00	11,310.75	7,954.23	73.15	63.71	94.22	-2,165.57	-1,514.05	4,736.04	4,609.95	126.08	37.563	
12,500.00	7,618.00	11,365.88	7,955.18	74.01	64.58	94.23	-2,220.70	-1,513.57	4,734.83	4,606.67	128.15	36.947	
12,600.00	7,618.00	12,600.00	7,956.50	74.93	84.20	94.25	-2,370.19	-1,511.61	4,733.17	4,583.90	149.27	31.709	
12,700.00	7,618.00	11,587.15	7,957.66	75.91	68.10	94.26	-2,441.93	-1,510.40	4,731.34	4,596.89	134.46	35.189	
12,800.00	7,618.00	11,695.72	7,960.04	76.95	69.84	94.29	-2,550.46	-1,509.29	4,730.16	4,592.55	137.62	34.372	
12,900.00	7,618.00	11,846.70	7,959.31	78.04	72.27	94.29	-2,701.41	-1,506.46	4,727.82	4,586.18	141.64	33.380	
13,000.00	7,618.00	11,921.20	7,957.06	79.16	73.48	94.26	-2,775.86	-1,505.05	4,725.41	4,581.23	144.18	32.775	
13,100.00	7,618.00	11,968.00	7,955.32	80.33	74.24	94.24	-2,822.62	-1,504.52	4,723.80	4,577.63	146.17	32.317	
13,178.01	7,618.00	12,002.27	7,954.03	81.27	74.80	94.23	-2,856.87	-1,504.49	4,723.35	4,575.67	147.68	31.985	
13,200.00	7,618.00	12,009.63	7,953.77	81.54	74.92	94.22	-2,864.22	-1,504.54	4,723.38	4,575.33	148.05	31.904	
13,300.00	7,618.00	12,057.00	7,952.25	82.78	75.69	94.20	-2,911.56	-1,505.44	4,724.46	4,574.42	150.04	31.489	
13,400.00	7,618.00	12,101.21	7,950.94	84.05	76.41	94.19	-2,955.73	-1,506.77	4,726.67	4,574.72	151.94	31.108	
13,500.00	7,618.00	12,171.93	7,948.88	85.35	77.56	94.16	-3,026.38	-1,509.19	4,729.55	4,575.14	154.41	30.631	
13,600.00	7,618.00	12,324.00	7,946.57	86.67	80.03	94.13	-3,178.32	-1,514.86	4,733.13	4,574.51	158.61	29.840	
13,700.00	7,618.00	12,404.69	7,946.00	88.02	81.35	94.12	-3,258.98	-1,517.03	4,735.43	4,574.10	161.33	29.353	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,800.00	7,618.00	12,591.00	7,950.77	89.38	84.43	94.17	-3,445.19	-1,519.57	4,736.28	4,569.93	166.35	28.472	
13,900.00	7,618.00	12,653.02	7,953.77	90.77	85.46	94.21	-3,507.14	-1,519.91	4,737.05	4,568.34	168.71	28.079	
14,000.00	7,618.00	12,701.71	7,956.42	92.17	86.27	94.24	-3,555.74	-1,520.93	4,739.16	4,568.39	170.77	27.752	
14,100.00	7,618.00	12,770.00	7,958.58	93.59	87.40	94.27	-3,623.96	-1,523.06	4,742.14	4,568.89	173.25	27.372	
14,200.00	7,618.00	12,885.87	7,958.83	95.02	89.32	94.27	-3,739.76	-1,527.04	4,745.25	4,568.46	176.79	26.841	
14,300.00	7,618.00	13,010.20	7,957.84	96.47	91.39	94.25	-3,864.02	-1,531.04	4,748.09	4,567.55	180.54	26.300	
14,400.00	7,618.00	13,124.61	7,954.78	97.93	93.29	94.21	-3,978.34	-1,534.16	4,750.26	4,566.19	184.08	25.806	
14,500.00	7,618.00	13,278.79	7,952.62	99.41	95.88	94.18	-4,132.48	-1,536.36	4,750.94	4,562.42	188.52	25.201	
14,600.00	7,618.00	13,344.63	7,953.29	100.89	96.98	94.19	-4,198.31	-1,537.41	4,752.27	4,561.26	191.01	24.880	
14,700.00	7,618.00	13,591.06	7,956.22	102.38	101.14	94.23	-4,444.70	-1,538.47	4,752.48	4,554.96	197.53	24.060	
14,800.00	7,618.00	13,694.15	7,959.77	103.89	102.89	94.27	-4,547.71	-1,537.08	4,751.06	4,550.17	200.89	23.650	
14,900.00	7,618.00	14,900.00	7,965.85	105.40	123.47	94.35	-4,742.94	-1,533.08	4,749.20	4,525.68	223.52	21.247	
15,000.00	7,618.00	13,965.74	7,967.03	106.92	107.52	94.36	-4,819.10	-1,530.45	4,745.65	4,536.58	209.07	22.699	
15,100.00	7,618.00	14,017.00	7,968.03	108.45	108.39	94.38	-4,870.34	-1,529.66	4,743.57	4,532.24	211.33	22.446	
15,200.00	7,618.00	14,036.95	7,968.50	109.99	108.73	94.38	-4,890.28	-1,529.61	4,742.62	4,529.76	212.87	22.280	
15,228.86	7,618.00	14,054.31	7,968.91	110.44	109.03	94.39	-4,907.64	-1,529.62	4,742.59	4,529.02	213.56	22.207	
15,300.00	7,618.00	14,106.00	7,970.14	111.54	109.91	94.40	-4,959.31	-1,529.89	4,742.82	4,527.33	215.48	22.010	
15,400.00	7,618.00	14,175.89	7,971.68	113.09	111.10	94.42	-5,029.18	-1,530.62	4,743.65	4,525.54	218.11	21.749	
15,500.00	7,618.00	14,270.86	7,972.91	114.65	112.71	94.44	-5,124.13	-1,531.93	4,744.78	4,523.47	221.32	21.439	
15,600.00	7,618.00	14,347.18	7,973.28	116.21	114.01	94.44	-5,200.44	-1,533.20	4,746.15	4,522.06	224.09	21.180	
15,700.00	7,618.00	14,514.27	7,977.55	117.78	116.87	94.49	-5,367.46	-1,535.02	4,747.11	4,518.12	228.99	20.731	
15,800.00	7,618.00	15,800.00	7,980.40	119.36	138.90	94.52	-5,497.22	-1,534.95	4,746.84	4,494.04	252.80	18.777	
15,847.90	7,618.00	14,666.59	7,980.60	120.12	119.48	94.53	-5,519.74	-1,534.92	4,746.72	4,512.68	234.04	20.282	
15,900.00	7,618.00	14,684.35	7,980.86	120.94	119.78	94.53	-5,537.50	-1,535.05	4,746.98	4,512.00	234.99	20.201	
16,000.00	7,618.00	14,730.00	7,981.85	122.53	120.56	94.54	-5,583.12	-1,535.95	4,748.59	4,511.53	237.05	20.032	
16,100.00	7,618.00	14,997.00	7,989.16	124.12	125.14	94.63	-5,849.94	-1,538.34	4,750.23	4,505.94	244.28	19.446	
16,200.00	7,618.00	15,058.97	7,989.75	125.72	126.20	94.63	-5,911.91	-1,537.73	4,749.03	4,502.24	246.79	19.243	
16,300.00	7,618.00	15,180.62	7,991.33	127.32	128.30	94.65	-6,033.54	-1,537.25	4,748.47	4,497.81	250.66	18.944	
16,400.00	7,618.00	15,264.00	7,993.18	128.93	129.74	94.68	-6,116.89	-1,535.96	4,746.90	4,493.24	253.66	18.714	
16,484.17	7,618.00	15,310.06	7,993.79	130.28	130.53	94.69	-6,162.94	-1,535.56	4,746.23	4,490.61	255.62	18.567	
16,500.00	7,618.00	15,314.86	7,993.83	130.54	130.61	94.69	-6,167.74	-1,535.57	4,746.25	4,490.35	255.90	18.547	
16,600.00	7,618.00	15,587.12	7,997.83	132.15	135.31	94.74	-6,439.89	-1,533.10	4,745.92	4,482.73	263.19	18.032	
16,700.00	7,618.00	15,669.55	7,999.80	133.77	136.74	94.77	-6,522.26	-1,530.57	4,742.72	4,476.51	266.20	17.816	
16,800.00	7,618.00	15,758.22	8,001.61	135.39	138.28	94.79	-6,610.88	-1,528.16	4,739.84	4,470.48	269.36	17.597	
16,900.00	7,618.00	15,842.71	8,005.32	137.01	139.75	94.84	-6,695.26	-1,525.87	4,737.17	4,464.76	272.41	17.390	
17,000.00	7,618.00	17,000.00	8,010.04	138.64	159.87	94.90	-6,811.16	-1,522.83	4,734.57	4,440.30	294.26	16.090	
17,100.00	7,618.00	16,066.00	8,013.49	140.27	143.63	94.94	-6,918.29	-1,519.21	4,731.10	4,451.35	279.75	16.912	
17,200.00	7,618.00	16,126.97	8,015.27	141.91	144.69	94.97	-6,979.20	-1,517.48	4,728.33	4,446.04	282.29	16.750	
17,300.00	7,618.00	16,177.00	8,017.27	143.55	145.56	94.99	-7,029.19	-1,516.71	4,726.77	4,442.22	284.56	16.611	
17,400.00	7,618.00	16,244.00	8,019.88	145.19	146.72	95.02	-7,096.14	-1,516.33	4,726.16	4,438.97	287.19	16.456	
17,500.00	7,618.00	16,395.87	8,024.61	146.83	149.36	95.08	-7,247.92	-1,514.81	4,725.03	4,433.21	291.81	16.192	
17,600.00	7,618.00	16,494.03	8,025.92	148.48	151.07	95.10	-7,346.06	-1,513.60	4,723.58	4,428.39	295.19	16.002	
17,700.00	7,618.00	16,582.18	8,025.80	150.13	152.60	95.10	-7,434.21	-1,512.75	4,722.27	4,423.93	298.33	15.829	
17,800.00	7,618.00	16,636.97	8,025.32	151.78	153.55	95.10	-7,489.00	-1,512.52	4,721.50	4,420.81	300.69	15.702	
17,818.98	7,618.00	16,645.71	8,025.31	152.09	153.70	95.10	-7,497.74	-1,512.54	4,721.48	4,420.39	301.09	15.681	
17,900.00	7,618.00	16,690.00	8,025.59	153.43	154.47	95.10	-7,542.03	-1,512.91	4,721.87	4,418.89	302.98	15.585	
18,000.00	7,618.00	16,741.78	8,026.23	155.09	155.37	95.11	-7,593.79	-1,513.78	4,723.24	4,418.04	305.20	15.476	
18,100.00	7,618.00	16,894.97	8,028.84	156.75	158.02	95.13	-7,746.94	-1,516.30	4,724.80	4,414.87	309.93	15.245	
18,200.00	7,618.00	17,007.89	8,032.79	158.41	159.98	95.18	-7,859.78	-1,517.14	4,725.54	4,411.89	313.66	15.066	
18,300.00	7,618.00	17,140.65	8,035.94	160.07	162.29	95.22	-7,992.51	-1,517.27	4,725.49	4,407.62	317.87	14.866	
18,400.00	7,618.00	17,224.00	8,036.77	161.74	163.74	95.23	-8,075.85	-1,517.30	4,725.30	4,404.40	320.90	14.725	
18,412.59	7,618.00	17,239.58	8,036.86	161.95	164.01	95.23	-8,091.43	-1,517.33	4,725.28	4,403.88	321.40	14.702	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,500.00	7,618.00	17,298.17	8,036.86	163.41	165.03	95.23	-8,150.02	-1,517.71	4,725.55	4,401.85	323.70	14.598	
18,600.00	7,618.00	17,441.69	8,034.53	165.08	167.52	95.20	-8,293.51	-1,518.71	4,725.79	4,397.59	328.19	14.400	
18,700.00	7,618.00	17,551.11	8,031.23	166.75	169.42	95.16	-8,402.88	-1,518.86	4,725.31	4,393.45	331.86	14.239	SF
18,711.30	7,618.00	17,546.00	8,031.39	166.94	169.33	95.17	-8,397.77	-1,518.86	4,725.28	4,393.43	331.85	14.239	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-53.94	786.89	-1,080.78	1,336.94				
100.00	100.00	94.83	94.83	0.13	0.14	-53.94	786.71	-1,080.61	1,336.66	1,336.39	0.28	4,824.130	
200.00	200.00	195.58	195.57	0.49	0.41	-53.95	786.22	-1,080.15	1,336.01	1,335.11	0.90	1,480.772	
300.00	300.00	291.26	291.25	0.85	0.75	-53.95	785.93	-1,079.88	1,335.61	1,334.00	1.60	832.905	
400.00	400.00	391.22	391.22	1.21	1.11	-53.95	785.82	-1,079.72	1,335.41	1,333.09	2.32	575.871	
500.00	500.00	492.85	492.85	1.57	1.47	-53.95	785.74	-1,079.40	1,335.11	1,332.07	3.04	439.208	
543.57	543.57	537.13	537.13	1.72	1.63	-53.94	785.72	-1,079.20	1,334.94	1,331.58	3.35	398.027	CC, ES
600.00	600.00	568.33	568.32	1.93	1.73	-53.94	786.02	-1,079.42	1,335.42	1,331.76	3.66	364.899	
700.00	700.00	635.05	635.01	2.29	1.96	-53.90	787.77	-1,080.38	1,338.14	1,333.90	4.24	315.444	
800.00	800.00	699.93	699.75	2.64	2.18	-53.79	791.83	-1,081.60	1,343.37	1,338.55	4.82	278.870	
900.00	900.00	763.00	762.50	3.00	2.40	-53.63	797.86	-1,083.40	1,351.32	1,345.94	5.39	250.890	
1,000.00	999.98	847.30	846.15	3.36	2.71	-110.42	807.82	-1,086.44	1,361.88	1,355.84	6.03	225.717	
1,100.00	1,099.84	940.83	938.84	3.71	3.06	-110.05	819.89	-1,089.81	1,374.31	1,367.59	6.72	204.509	
1,200.00	1,199.45	1,032.08	1,029.19	4.07	3.42	-109.78	832.16	-1,093.24	1,388.39	1,380.98	7.41	187.424	
1,300.00	1,298.70	1,121.91	1,118.03	4.44	3.78	-109.56	845.04	-1,096.80	1,404.33	1,396.23	8.10	173.322	
1,400.00	1,397.47	1,223.46	1,218.45	4.82	4.19	-109.48	859.50	-1,101.15	1,421.65	1,412.79	8.86	160.479	
1,500.00	1,495.62	1,326.91	1,320.91	5.22	4.61	-109.57	872.94	-1,105.97	1,439.70	1,430.06	9.64	149.316	
1,600.00	1,593.06	1,417.92	1,411.00	5.65	4.98	-109.68	885.17	-1,109.88	1,458.99	1,448.59	10.40	140.305	
1,700.00	1,689.64	1,502.74	1,494.68	6.11	5.34	-109.73	898.75	-1,112.70	1,480.25	1,469.09	11.16	132.616	
1,800.00	1,785.27	1,614.38	1,604.65	6.61	5.82	-109.99	917.68	-1,116.08	1,503.15	1,491.07	12.08	124.383	
1,900.00	1,879.82	1,706.15	1,695.10	7.15	6.22	-110.18	933.11	-1,117.79	1,526.35	1,513.40	12.96	117.805	
2,000.00	1,973.17	1,784.01	1,771.80	7.73	6.56	-110.34	946.33	-1,119.96	1,551.78	1,537.98	13.80	112.439	
2,100.00	2,065.21	1,913.38	1,899.29	8.37	7.12	-111.04	967.97	-1,123.65	1,578.79	1,563.86	14.93	105.715	
2,200.00	2,155.84	2,042.22	2,026.95	9.07	7.66	-111.95	985.20	-1,125.21	1,604.14	1,588.05	16.09	99.681	
2,300.00	2,244.94	2,128.79	2,112.88	9.82	8.01	-112.49	995.62	-1,126.29	1,630.86	1,613.77	17.09	95.402	
2,400.00	2,332.39	2,208.83	2,192.33	10.64	8.33	-112.98	1,005.21	-1,127.78	1,659.98	1,641.87	18.11	91.684	
2,500.00	2,418.11	2,291.46	2,274.33	11.53	8.67	-113.53	1,015.28	-1,129.70	1,691.62	1,672.45	19.17	88.262	
2,558.91	2,467.74	2,343.92	2,326.40	12.08	8.88	-113.91	1,021.54	-1,130.99	1,711.27	1,691.44	19.83	86.317	
2,600.00	2,502.13	2,378.12	2,360.36	12.47	9.02	-114.42	1,025.51	-1,131.88	1,725.30	1,705.03	20.28	85.090	
2,700.00	2,585.83	2,462.31	2,443.99	13.45	9.36	-115.66	1,034.81	-1,134.39	1,760.17	1,738.79	21.38	82.337	
2,800.00	2,669.53	2,548.79	2,529.91	14.44	9.70	-116.90	1,044.21	-1,136.98	1,795.87	1,773.38	22.49	79.861	
2,900.00	2,753.22	2,632.33	2,612.95	15.46	10.04	-118.06	1,053.05	-1,139.59	1,832.37	1,808.79	23.57	77.725	
3,000.00	2,836.92	2,742.19	2,722.22	16.48	10.47	-119.55	1,063.88	-1,142.76	1,869.28	1,844.50	24.78	75.421	
3,100.00	2,920.62	2,868.35	2,847.72	17.52	10.96	-121.15	1,076.78	-1,143.53	1,905.16	1,879.08	26.08	73.061	
3,200.00	3,004.32	2,952.36	2,931.07	18.56	11.30	-122.10	1,087.21	-1,142.28	1,940.70	1,913.53	27.17	71.433	
3,300.00	3,088.01	3,014.80	2,992.95	19.61	11.55	-122.78	1,095.53	-1,141.87	1,977.70	1,949.56	28.14	70.280	
3,400.00	3,171.71	3,090.06	3,067.52	20.67	11.87	-123.57	1,105.71	-1,142.02	2,016.00	1,986.83	29.17	69.112	
3,500.00	3,255.41	3,176.91	3,153.60	21.73	12.23	-124.48	1,117.18	-1,142.52	2,055.00	2,024.75	30.25	67.929	
3,600.00	3,339.10	3,275.85	3,251.68	22.80	12.63	-125.47	1,130.22	-1,142.96	2,094.37	2,062.98	31.39	66.713	
3,700.00	3,422.80	3,372.36	3,347.49	23.87	13.02	-126.42	1,141.84	-1,142.95	2,133.52	2,101.02	32.50	65.639	
3,800.00	3,506.50	3,439.94	3,414.64	24.94	13.29	-127.09	1,149.43	-1,143.18	2,173.27	2,139.83	33.43	65.001	
3,900.00	3,590.20	3,497.10	3,471.40	26.02	13.52	-127.64	1,156.05	-1,144.02	2,214.46	2,180.17	34.29	64.581	
4,000.00	3,673.89	3,547.06	3,520.91	27.10	13.73	-128.09	1,162.64	-1,145.34	2,257.33	2,222.24	35.09	64.331	
4,100.00	3,757.59	3,625.28	3,598.24	28.18	14.06	-128.75	1,174.05	-1,148.19	2,301.62	2,265.56	36.06	63.821	
4,200.00	3,841.29	3,740.77	3,712.74	29.26	14.54	-129.75	1,188.61	-1,151.97	2,345.63	2,308.38	37.26	62.960	
4,300.00	3,924.99	3,828.60	3,800.01	30.35	14.90	-130.52	1,198.25	-1,154.42	2,389.30	2,351.05	38.25	62.469	
4,400.00	4,008.68	3,917.83	3,888.55	31.44	15.26	-131.24	1,209.00	-1,156.66	2,433.23	2,393.98	39.25	61.988	
4,500.00	4,092.38	4,004.98	3,974.93	32.52	15.62	-131.90	1,220.43	-1,158.57	2,477.35	2,437.11	40.25	61.551	
4,600.00	4,176.08	4,098.34	4,067.69	33.62	16.00	-132.63	1,230.78	-1,160.77	2,521.62	2,480.37	41.26	61.122	
4,700.00	4,259.77	4,184.42	4,153.33	34.71	16.33	-133.31	1,239.12	-1,162.81	2,566.03	2,523.84	42.20	60.813	
4,800.00	4,343.47	4,269.82	4,238.17	35.80	16.68	-133.94	1,248.73	-1,164.64	2,610.73	2,567.58	43.14	60.516	
4,900.00	4,427.17	4,346.92	4,314.72	36.89	16.99	-134.47	1,257.78	-1,166.35	2,655.79	2,611.76	44.03	60.319	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,510.87	4,421.75	4,389.06	37.99	17.29	-134.99	1,266.05	-1,168.35	2,701.42	2,656.53	44.90	60.172	
5,100.00	4,594.56	4,498.57	4,465.18	39.08	17.61	-135.47	1,276.14	-1,170.53	2,747.61	2,701.83	45.78	60.018	
5,200.00	4,678.26	4,600.55	4,566.28	40.18	18.03	-136.10	1,289.19	-1,173.27	2,793.84	2,747.00	46.84	59.652	
5,300.00	4,761.96	4,691.14	4,656.25	41.28	18.40	-136.66	1,299.58	-1,175.38	2,839.85	2,792.06	47.79	59.419	
5,400.00	4,845.66	4,760.19	4,724.66	42.37	18.69	-137.05	1,308.83	-1,177.09	2,886.33	2,837.71	48.61	59.371	
5,500.00	4,929.35	4,855.20	4,818.65	43.47	19.09	-137.55	1,322.46	-1,179.49	2,933.07	2,883.44	49.63	59.096	
5,600.00	5,013.05	4,938.66	4,901.36	44.57	19.44	-138.00	1,333.42	-1,181.58	2,979.88	2,929.33	50.55	58.953	
5,700.00	5,096.75	5,022.96	4,985.03	45.67	19.78	-138.46	1,343.52	-1,183.79	3,026.89	2,975.44	51.45	58.832	
5,800.00	5,180.45	5,116.29	5,077.78	46.77	20.16	-138.98	1,353.58	-1,186.20	3,073.97	3,021.57	52.40	58.668	
5,900.00	5,264.14	5,202.66	5,163.65	47.87	20.50	-139.44	1,362.65	-1,188.31	3,121.09	3,067.80	53.29	58.571	
6,000.00	5,347.84	5,282.33	5,242.77	48.97	20.82	-139.85	1,371.81	-1,190.28	3,168.43	3,114.29	54.14	58.521	
6,100.00	5,431.54	5,378.79	5,338.51	50.07	21.21	-140.32	1,383.32	-1,192.60	3,215.87	3,160.76	55.12	58.347	
6,200.00	5,515.23	5,501.40	5,460.08	51.17	21.72	-140.87	1,399.04	-1,194.44	3,262.64	3,206.35	56.29	57.963	
6,300.00	5,598.93	5,590.00	5,547.98	52.27	22.08	-141.26	1,410.14	-1,195.36	3,309.17	3,251.96	57.21	57.842	
6,400.00	5,682.63	5,672.35	5,629.87	53.38	22.41	-141.64	1,418.80	-1,196.16	3,355.75	3,297.68	58.06	57.794	
6,500.00	5,766.33	5,739.00	5,696.10	54.48	22.67	-141.94	1,426.21	-1,197.13	3,402.85	3,344.05	58.81	57.864	
6,600.00	5,850.02	5,830.76	5,787.27	55.58	23.04	-142.34	1,436.48	-1,198.63	3,450.25	3,390.53	59.73	57.767	
6,700.00	5,933.72	5,887.29	5,843.50	56.68	23.26	-142.59	1,442.25	-1,199.73	3,498.03	3,437.65	60.38	57.931	
6,800.00	6,017.42	5,973.38	5,929.10	57.79	23.61	-142.96	1,451.08	-1,201.92	3,546.45	3,485.20	61.25	57.903	
6,900.00	6,101.12	6,078.11	6,032.99	58.89	24.04	-143.36	1,464.17	-1,204.05	3,594.49	3,532.22	62.27	57.721	
7,000.00	6,184.81	6,148.82	6,103.16	59.99	24.32	-143.62	1,472.78	-1,205.41	3,642.57	3,579.53	63.04	57.780	
7,100.00	6,268.51	6,226.82	6,180.70	61.10	24.63	-143.93	1,481.03	-1,207.28	3,691.16	3,627.31	63.85	57.813	
7,200.00	6,352.21	6,316.20	6,269.51	62.20	24.99	-144.27	1,490.83	-1,209.33	3,739.75	3,675.02	64.74	57.769	
7,300.00	6,435.90	6,391.12	6,343.81	63.31	25.30	-144.52	1,500.29	-1,211.15	3,788.50	3,722.97	65.53	57.810	
7,400.00	6,519.60	6,452.00	6,404.17	64.41	25.55	-144.73	1,508.05	-1,212.91	3,837.73	3,771.50	66.23	57.949	
7,500.00	6,603.30	6,509.07	6,460.78	65.51	25.79	-144.92	1,514.93	-1,214.93	3,887.61	3,820.74	66.87	58.133	
7,600.00	6,687.00	6,574.24	6,525.52	66.62	26.05	-145.15	1,521.94	-1,217.71	3,938.20	3,870.63	67.57	58.284	
7,700.00	6,770.69	6,653.78	6,604.69	67.72	26.35	-145.45	1,528.83	-1,221.14	3,989.04	3,920.69	68.35	58.365	
7,800.00	6,854.39	6,729.10	6,679.74	68.83	26.63	-145.75	1,534.11	-1,224.47	4,040.15	3,971.08	69.07	58.493	
7,900.00	6,938.09	6,821.99	6,772.41	69.93	26.97	-146.13	1,539.12	-1,228.44	4,091.33	4,021.43	69.89	58.537	
7,933.18	6,965.86	6,846.07	6,796.45	70.30	27.05	-146.24	1,540.19	-1,229.44	4,108.33	4,038.21	70.11	58.595	
7,950.00	6,980.00	6,859.30	6,809.65	70.49	27.10	-149.61	1,540.74	-1,229.99	4,116.97	4,046.73	70.23	58.620	
8,000.00	7,022.68	8,000.00	6,907.99	71.01	30.48	-160.50	1,540.82	-1,232.98	4,142.40	4,068.46	73.95	56.018	
8,050.00	7,066.06	6,987.00	6,937.19	71.51	27.49	-171.96	1,540.14	-1,233.66	4,167.78	4,096.67	71.11	58.611	
8,100.00	7,109.82	6,987.00	6,937.19	71.97	27.49	176.08	1,540.14	-1,233.66	4,193.36	4,122.22	71.14	58.942	
8,150.00	7,153.63	7,027.37	6,977.29	72.38	27.58	164.06	1,535.66	-1,234.30	4,218.29	4,146.98	71.31	59.153	
8,200.00	7,197.14	7,038.31	6,988.11	72.74	27.60	152.57	1,534.05	-1,234.63	4,243.42	4,172.08	71.34	59.484	
8,250.00	7,240.04	7,076.00	7,025.14	73.05	27.68	142.05	1,527.25	-1,236.32	4,268.49	4,197.06	71.43	59.757	
8,300.00	7,281.99	7,076.00	7,025.14	73.31	27.68	132.59	1,527.25	-1,236.32	4,292.46	4,221.08	71.37	60.140	
8,350.00	7,322.67	8,350.00	7,066.00	73.52	29.78	124.44	1,517.05	-1,237.93	4,315.59	4,242.21	73.38	58.811	
8,400.00	7,361.77	8,400.00	7,107.28	73.68	29.86	117.49	1,506.75	-1,239.55	4,337.51	4,264.09	73.42	59.078	
8,450.00	7,399.01	7,202.17	7,146.87	73.78	27.87	111.58	1,494.66	-1,240.69	4,357.83	4,286.41	71.42	61.016	
8,500.00	7,434.08	7,217.29	7,161.13	73.85	27.89	106.42	1,489.67	-1,241.21	4,377.09	4,305.74	71.35	61.346	
8,550.00	7,466.74	7,255.00	7,196.25	73.87	27.93	102.18	1,476.03	-1,242.82	4,395.18	4,323.88	71.30	61.641	
8,600.00	7,496.72	7,255.00	7,196.25	73.85	27.93	98.38	1,476.03	-1,242.82	4,411.53	4,340.31	71.22	61.945	
8,650.00	7,523.80	7,255.00	7,196.25	73.79	27.93	95.16	1,476.03	-1,242.82	4,426.48	4,355.34	71.14	62.224	
8,700.00	7,547.77	7,255.00	7,196.25	73.70	27.93	92.44	1,476.03	-1,242.82	4,439.93	4,368.86	71.07	62.475	
8,750.00	7,568.45	7,255.00	7,196.25	73.58	27.93	90.19	1,476.03	-1,242.82	4,451.79	4,380.78	71.01	62.691	
8,800.00	7,585.69	7,255.00	7,196.25	73.43	27.93	88.36	1,476.03	-1,242.82	4,461.99	4,391.02	70.97	62.870	
8,850.00	7,599.35	7,293.37	7,231.42	73.26	27.97	87.32	1,460.88	-1,245.16	4,469.80	4,398.81	70.99	62.966	
8,900.00	7,609.33	7,300.52	7,237.92	73.07	27.97	86.35	1,457.96	-1,245.70	4,476.22	4,405.22	71.00	63.046	
8,950.00	7,615.55	7,307.00	7,243.81	72.87	27.98	85.73	1,455.29	-1,246.22	4,480.80	4,409.76	71.03	63.081	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	7,312.78	7,249.05	72.65	27.98	85.45	1,452.90	-1,246.70	4,483.52	4,412.43	71.09	63.067	
9,006.60	7,618.00	7,344.00	7,277.15	72.62	28.01	85.79	1,439.63	-1,249.71	4,484.15	4,413.03	71.12	63.050	
9,100.00	7,618.00	9,100.00	7,283.00	72.22	29.58	85.87	1,436.39	-1,250.30	4,487.74	4,415.30	72.44	61.948	
9,200.00	7,618.00	8,007.96	7,654.56	71.80	28.29	90.62	928.26	-1,262.89	4,486.13	4,416.74	69.39	64.647	
9,300.00	7,618.00	8,057.00	7,660.81	71.41	28.37	90.70	879.63	-1,261.52	4,482.76	4,413.28	69.47	64.526	
9,400.00	7,618.00	8,163.09	7,671.91	71.04	28.65	90.84	774.17	-1,258.77	4,479.98	4,410.51	69.47	64.486	
9,500.00	7,618.00	8,217.08	7,674.79	70.68	28.83	90.88	720.27	-1,257.43	4,477.23	4,407.52	69.71	64.226	
9,600.00	7,618.00	8,289.31	7,675.28	70.35	29.12	90.89	648.06	-1,256.34	4,475.37	4,405.38	69.99	63.941	
9,700.00	7,618.00	8,373.68	7,675.34	70.04	29.52	90.89	563.69	-1,255.43	4,473.95	4,403.57	70.38	63.573	
9,800.00	7,618.00	8,467.60	7,675.68	69.75	30.04	90.89	469.78	-1,254.65	4,472.79	4,401.88	70.90	63.082	
9,900.00	7,618.00	8,656.82	7,676.25	69.47	31.34	90.90	280.59	-1,251.30	4,470.70	4,398.82	71.88	62.199	
10,000.00	7,618.00	8,727.59	7,676.06	69.22	31.91	90.90	209.85	-1,249.43	4,467.77	4,395.05	72.72	61.441	
10,100.00	7,618.00	8,769.00	7,675.72	68.99	32.25	90.89	168.45	-1,248.70	4,465.83	4,392.34	73.49	60.770	
10,200.00	7,618.00	8,831.78	7,675.75	68.78	32.81	90.90	105.67	-1,248.25	4,464.89	4,390.45	74.44	59.979	
10,300.00	7,618.00	8,959.40	7,678.00	68.59	34.01	90.92	-21.94	-1,248.30	4,464.72	4,388.82	75.90	58.820	
10,400.00	7,618.00	9,121.08	7,679.05	68.42	35.69	90.94	-183.59	-1,246.09	4,462.99	4,385.12	77.87	57.314	
10,500.00	7,618.00	9,204.06	7,679.31	68.28	36.61	90.94	-266.55	-1,244.57	4,460.83	4,381.50	79.33	56.230	
10,600.00	7,618.00	9,268.73	7,679.90	68.16	37.35	90.95	-331.21	-1,243.75	4,459.25	4,378.55	80.70	55.257	
10,700.00	7,618.00	9,355.10	7,680.40	68.06	38.37	90.96	-417.59	-1,243.33	4,458.41	4,376.05	82.36	54.136	
10,800.00	7,618.00	9,426.71	7,680.61	67.99	39.24	90.96	-489.19	-1,243.02	4,457.71	4,373.78	83.92	53.116	
10,818.78	7,618.00	9,436.03	7,680.71	67.98	39.35	90.96	-498.51	-1,243.04	4,457.69	4,373.51	84.18	52.953	
10,900.00	7,618.00	9,482.00	7,681.49	67.95	39.92	90.97	-544.47	-1,243.42	4,458.07	4,372.71	85.35	52.230	
11,000.00	7,618.00	9,577.13	7,684.19	67.95	41.12	91.00	-639.56	-1,244.63	4,459.03	4,371.70	87.34	51.056	
11,100.00	7,618.00	9,681.37	7,687.72	67.97	42.48	91.05	-743.73	-1,245.85	4,459.94	4,370.41	89.53	49.814	
11,200.00	7,618.00	9,800.37	7,692.12	68.04	44.08	91.11	-862.64	-1,246.82	4,460.48	4,368.45	92.03	48.469	
11,300.00	7,618.00	9,881.21	7,694.99	68.15	45.19	91.14	-943.43	-1,247.42	4,460.97	4,366.91	94.05	47.430	
11,400.00	7,618.00	9,949.54	7,695.75	68.30	46.14	91.15	-1,011.75	-1,248.45	4,462.15	4,366.22	95.93	46.516	
11,500.00	7,618.00	10,027.51	7,695.59	68.50	47.23	91.15	-1,089.70	-1,250.15	4,463.97	4,365.99	97.98	45.559	
11,600.00	7,618.00	10,165.00	7,693.98	68.75	49.19	91.13	-1,227.15	-1,252.88	4,465.61	4,364.57	101.04	44.198	
11,700.00	7,618.00	10,263.56	7,692.13	69.06	50.62	91.10	-1,325.68	-1,254.32	4,466.69	4,363.16	103.54	43.140	
11,800.00	7,618.00	10,402.24	7,688.29	69.44	52.67	91.06	-1,464.29	-1,255.84	4,467.37	4,360.59	106.78	41.837	
11,900.00	7,618.00	10,486.22	7,686.65	69.88	53.92	91.03	-1,548.25	-1,256.63	4,467.93	4,358.78	109.15	40.933	
12,000.00	7,618.00	10,585.76	7,688.60	70.39	55.43	91.06	-1,647.77	-1,257.67	4,468.67	4,356.82	111.85	39.952	
12,100.00	7,618.00	10,736.76	7,693.19	70.97	57.74	91.12	-1,798.69	-1,258.56	4,469.06	4,353.51	115.55	38.675	
12,200.00	7,618.00	10,886.71	7,691.09	71.63	60.07	91.09	-1,948.61	-1,257.52	4,467.97	4,348.68	119.29	37.454	
12,300.00	7,618.00	11,010.68	7,686.43	72.35	62.02	91.03	-2,072.47	-1,255.64	4,466.01	4,343.41	122.59	36.429	
12,400.00	7,618.00	11,072.06	7,684.41	73.15	62.99	91.01	-2,133.81	-1,254.87	4,464.36	4,339.62	124.74	35.788	
12,500.00	7,618.00	11,186.13	7,682.03	74.01	64.80	90.98	-2,247.85	-1,253.87	4,463.13	4,335.19	127.93	34.886	
12,600.00	7,618.00	11,249.36	7,680.88	74.93	65.81	90.96	-2,311.07	-1,253.47	4,462.08	4,331.92	130.16	34.282	
12,700.00	7,618.00	11,405.11	7,678.82	75.91	68.31	90.94	-2,466.80	-1,252.04	4,460.83	4,326.58	134.25	33.229	
12,800.00	7,618.00	12,800.00	7,679.89	76.95	90.93	90.95	-2,594.20	-1,249.37	4,458.36	4,299.97	158.39	28.147	
12,900.00	7,618.00	11,570.50	7,680.48	78.04	70.99	90.96	-2,632.14	-1,248.71	4,456.43	4,316.82	139.60	31.922	
13,000.00	7,618.00	11,620.00	7,681.37	79.16	71.79	90.97	-2,681.63	-1,248.83	4,456.08	4,314.48	141.61	31.468	
13,001.91	7,618.00	11,620.00	7,681.37	79.19	71.79	90.97	-2,681.63	-1,248.83	4,456.08	4,314.46	141.63	31.464	
13,100.00	7,618.00	11,655.36	7,682.04	80.33	72.37	90.98	-2,716.98	-1,249.37	4,456.96	4,313.66	143.30	31.102	
13,200.00	7,618.00	11,740.30	7,683.47	81.54	73.75	91.00	-2,801.89	-1,251.12	4,458.68	4,312.63	146.05	30.528	
13,300.00	7,618.00	13,300.00	7,685.25	82.78	99.25	91.02	-2,940.38	-1,253.16	4,459.78	4,286.57	173.21	25.748	
13,400.00	7,618.00	11,950.42	7,686.46	84.05	77.18	91.03	-3,011.97	-1,254.07	4,460.80	4,308.33	152.47	29.257	
13,500.00	7,618.00	12,025.28	7,688.70	85.35	78.41	91.06	-3,086.78	-1,255.73	4,462.71	4,307.66	155.05	28.783	
13,600.00	7,618.00	12,121.42	7,692.36	86.67	79.99	91.11	-3,182.82	-1,258.05	4,464.85	4,306.74	158.11	28.239	
13,700.00	7,618.00	12,221.00	7,696.63	88.02	81.64	91.16	-3,282.28	-1,260.47	4,467.03	4,305.77	161.26	27.700	
13,800.00	7,618.00	12,326.94	7,701.55	89.38	83.39	91.23	-3,388.08	-1,262.98	4,469.16	4,304.58	164.58	27.155	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,900.00	7,618.00	12,401.93	7,704.83	90.77	84.64	91.27	-3,462.97	-1,264.89	4,471.47	4,304.27	167.20	26.744	
14,000.00	7,618.00	12,529.41	7,708.08	92.17	86.75	91.31	-3,590.36	-1,268.35	4,473.94	4,302.91	171.02	26.160	
14,100.00	7,618.00	12,675.19	7,710.11	93.59	89.19	91.33	-3,736.10	-1,270.97	4,475.43	4,300.15	175.28	25.532	
14,200.00	7,618.00	12,776.58	7,712.34	95.02	90.88	91.36	-3,837.45	-1,272.18	4,476.34	4,297.79	178.55	25.070	
14,300.00	7,618.00	12,897.69	7,717.95	96.47	92.92	91.43	-3,958.42	-1,273.28	4,477.02	4,294.72	182.29	24.560	
14,400.00	7,618.00	13,010.02	7,723.76	97.93	94.82	91.51	-4,070.60	-1,273.91	4,477.38	4,291.53	185.85	24.092	
14,500.00	7,618.00	13,103.71	7,728.29	99.41	96.40	91.57	-4,164.18	-1,274.29	4,477.57	4,288.59	188.98	23.693	
14,600.00	7,618.00	13,197.54	7,731.35	100.89	97.99	91.60	-4,257.96	-1,274.95	4,478.03	4,285.91	192.12	23.308	
14,700.00	7,618.00	13,298.37	7,734.18	102.38	99.69	91.64	-4,358.74	-1,275.70	4,478.51	4,283.08	195.43	22.916	
14,800.00	7,618.00	13,436.20	7,737.42	103.89	102.03	91.68	-4,496.53	-1,276.19	4,478.61	4,279.01	199.61	22.437	
14,900.00	7,618.00	13,596.05	7,741.23	105.40	104.76	91.73	-4,656.33	-1,274.88	4,477.50	4,273.20	204.30	21.916	
15,000.00	7,618.00	13,885.38	7,742.09	106.92	109.71	91.75	-4,945.41	-1,264.88	4,473.79	4,261.96	211.83	21.120	
15,100.00	7,618.00	13,937.00	7,741.78	108.45	110.60	91.74	-4,996.98	-1,262.51	4,468.63	4,254.51	214.13	20.869	
15,200.00	7,618.00	13,937.00	7,741.78	109.99	110.60	91.74	-4,996.98	-1,262.51	4,464.89	4,249.64	215.24	20.744	
15,300.00	7,618.00	13,986.12	7,741.12	111.54	111.44	91.74	-5,046.08	-1,261.37	4,462.51	4,245.10	217.41	20.525	
15,400.00	7,618.00	14,026.00	7,740.38	113.09	112.13	91.73	-5,085.96	-1,261.33	4,461.82	4,242.48	219.34	20.342	
15,406.26	7,618.00	14,026.00	7,740.38	113.19	112.13	91.73	-5,085.96	-1,261.33	4,461.82	4,242.41	219.40	20.336	
15,500.00	7,618.00	14,088.69	7,739.00	114.65	113.20	91.71	-5,148.62	-1,261.96	4,462.30	4,240.51	221.79	20.120	
15,600.00	7,618.00	14,224.56	7,735.75	116.21	115.52	91.67	-5,284.45	-1,262.80	4,462.48	4,236.49	225.99	19.747	
15,611.16	7,618.00	14,231.00	7,735.64	116.39	115.63	91.66	-5,290.89	-1,262.82	4,462.47	4,236.23	226.25	19.724	
15,700.00	7,618.00	14,293.00	7,735.19	117.78	116.69	91.66	-5,352.89	-1,263.36	4,462.87	4,234.29	228.58	19.525	
15,800.00	7,618.00	14,387.53	7,735.90	119.36	118.31	91.67	-5,447.41	-1,264.49	4,463.73	4,231.93	231.80	19.257	
15,900.00	7,618.00	14,522.64	7,737.73	120.94	120.63	91.69	-5,582.50	-1,265.37	4,464.10	4,228.08	236.02	18.914	
16,000.00	7,618.00	14,667.48	7,740.10	122.53	123.12	91.72	-5,727.32	-1,264.82	4,463.38	4,222.91	240.46	18.562	
16,100.00	7,618.00	14,739.00	7,740.63	124.12	124.35	91.73	-5,798.84	-1,264.53	4,462.65	4,219.49	243.16	18.352	
16,200.00	7,618.00	14,840.07	7,739.38	125.72	126.09	91.71	-5,899.90	-1,264.50	4,462.24	4,215.68	246.57	18.098	
16,300.00	7,618.00	14,944.22	7,737.93	127.32	127.89	91.69	-6,004.03	-1,264.36	4,461.72	4,211.68	250.05	17.843	
16,400.00	7,618.00	15,075.83	7,737.81	128.93	130.16	91.69	-6,135.64	-1,263.86	4,461.06	4,206.87	254.19	17.550	
16,500.00	7,618.00	15,154.43	7,737.98	130.54	131.52	91.70	-6,214.24	-1,263.20	4,459.92	4,202.84	257.08	17.348	
16,600.00	7,618.00	15,239.87	7,740.31	132.15	132.99	91.73	-6,299.65	-1,263.00	4,459.41	4,199.28	260.13	17.143	
16,653.09	7,618.00	15,273.00	7,741.13	133.01	133.57	91.74	-6,332.77	-1,262.93	4,459.22	4,197.77	261.45	17.056	
16,700.00	7,618.00	15,273.00	7,741.13	133.77	133.57	91.74	-6,332.77	-1,262.93	4,459.46	4,197.58	261.88	17.028	
16,800.00	7,618.00	15,333.85	7,742.32	135.39	134.61	91.75	-6,393.60	-1,263.55	4,460.50	4,196.20	264.29	16.877	
16,900.00	7,618.00	15,362.00	7,742.70	137.01	135.10	91.76	-6,421.74	-1,264.33	4,463.16	4,197.34	265.82	16.790	
17,000.00	7,618.00	15,425.67	7,743.41	138.64	136.19	91.76	-6,485.35	-1,266.88	4,466.94	4,198.69	268.25	16.652	
17,100.00	7,618.00	17,100.00	7,744.87	140.27	164.97	91.78	-6,643.35	-1,273.94	4,471.36	4,172.12	299.24	14.943	
17,200.00	7,618.00	15,744.77	7,748.82	141.91	141.68	91.83	-6,804.18	-1,277.87	4,473.43	4,195.27	278.16	16.082	
17,300.00	7,618.00	15,888.80	7,752.62	143.55	144.17	91.88	-6,948.14	-1,279.94	4,474.60	4,191.91	282.69	15.829	
17,400.00	7,618.00	15,977.82	7,755.62	145.19	145.71	91.92	-7,037.11	-1,280.85	4,475.40	4,189.57	285.84	15.657	
17,500.00	7,618.00	16,101.70	7,759.60	146.83	147.86	91.97	-7,160.91	-1,281.90	4,476.00	4,186.14	289.86	15.442	
17,600.00	7,618.00	16,181.04	7,760.97	148.48	149.23	91.98	-7,240.24	-1,282.56	4,476.58	4,183.81	292.77	15.291	
17,700.00	7,618.00	16,238.26	7,762.55	150.13	150.22	92.00	-7,297.43	-1,283.48	4,477.94	4,182.84	295.10	15.174	
17,800.00	7,618.00	16,356.56	7,768.17	151.78	152.27	92.07	-7,415.57	-1,285.70	4,479.66	4,180.66	299.00	14.982	
17,900.00	7,618.00	16,440.19	7,772.38	153.43	153.72	92.13	-7,499.09	-1,287.20	4,481.29	4,179.28	302.01	14.838	
18,000.00	7,618.00	16,545.08	7,777.00	155.09	155.54	92.19	-7,603.85	-1,289.24	4,483.07	4,177.50	305.57	14.671	
18,100.00	7,618.00	16,839.47	7,787.65	156.75	160.66	92.32	-7,898.00	-1,290.34	4,484.51	4,170.72	313.79	14.292	
18,200.00	7,618.00	16,963.62	7,790.81	158.41	162.83	92.36	-8,022.07	-1,287.07	4,481.66	4,163.85	317.80	14.102	
18,300.00	7,618.00	17,106.15	7,793.21	160.07	165.33	92.40	-8,164.48	-1,281.90	4,477.66	4,155.43	322.23	13.896	
18,400.00	7,618.00	17,226.17	7,794.18	161.74	167.43	92.41	-8,284.41	-1,277.19	4,473.46	4,147.32	326.14	13.717	
18,500.00	7,618.00	17,342.01	7,795.19	163.41	169.47	92.43	-8,400.12	-1,271.91	4,468.58	4,138.64	329.95	13.543	
18,600.00	7,618.00	17,340.00	7,795.17	165.08	169.43	92.43	-8,398.12	-1,272.00	4,464.81	4,133.72	331.10	13.485	
18,700.00	7,618.00	17,340.00	7,795.17	166.75	169.43	92.43	-8,398.12	-1,272.00	4,463.28	4,131.14	332.14	13.438	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,711.30	7,618.00	17,340.00	7,795.17	166.94	169.43	92.43	-8,398.12	-1,272.00	4,463.25	4,131.00	332.24	13.434	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-53.69	786.89	-1,070.98	1,329.02				
100.00	100.00	91.14	91.14	0.13	0.14	-53.70	786.74	-1,070.99	1,328.91	1,328.63	0.28	4,801.796	
200.00	200.00	193.55	193.55	0.49	0.30	-53.72	786.24	-1,071.04	1,328.65	1,327.86	0.80	1,671.127	
293.13	293.13	282.14	282.13	0.83	0.65	-53.74	785.78	-1,071.24	1,328.54	1,327.06	1.48	898.484	CC
300.00	300.00	288.74	288.74	0.85	0.68	-53.74	785.75	-1,071.26	1,328.54	1,327.01	1.53	870.118	
400.00	400.00	387.33	387.32	1.21	1.02	-53.76	785.40	-1,071.64	1,328.64	1,326.40	2.23	595.213	
500.00	500.00	486.96	486.95	1.57	1.37	-53.77	785.32	-1,071.87	1,328.78	1,325.84	2.94	452.120	
600.00	600.00	583.39	583.38	1.93	1.71	-53.81	784.83	-1,072.57	1,329.05	1,325.42	3.64	365.392	ES
700.00	700.00	658.26	658.24	2.29	1.97	-53.82	785.11	-1,073.60	1,330.40	1,326.14	4.26	312.438	
800.00	800.00	734.40	734.30	2.64	2.24	-53.73	788.33	-1,074.28	1,333.62	1,328.74	4.88	273.365	
900.00	900.00	807.04	806.68	3.00	2.49	-53.52	794.44	-1,074.33	1,338.69	1,333.21	5.49	244.047	
1,000.00	999.98	887.53	886.63	3.36	2.78	-110.31	803.78	-1,074.44	1,346.32	1,340.20	6.12	219.898	
1,100.00	1,099.84	980.63	978.95	3.71	3.12	-109.92	815.77	-1,074.66	1,356.07	1,349.26	6.81	199.080	
1,200.00	1,199.45	1,072.67	1,070.09	4.07	3.48	-109.59	828.56	-1,074.55	1,367.36	1,359.85	7.51	182.093	
1,300.00	1,298.70	1,162.06	1,158.44	4.44	3.83	-109.31	842.14	-1,074.32	1,380.49	1,372.28	8.21	168.116	
1,400.00	1,397.47	1,252.65	1,247.85	4.82	4.20	-109.10	856.71	-1,074.24	1,395.43	1,386.49	8.94	156.158	
1,500.00	1,495.62	1,349.19	1,343.14	5.22	4.60	-109.00	872.24	-1,074.63	1,411.91	1,402.20	9.71	145.428	
1,600.00	1,593.06	1,434.85	1,427.63	5.65	4.96	-108.96	886.33	-1,075.13	1,429.90	1,419.44	10.46	136.717	
1,700.00	1,689.64	1,516.80	1,508.34	6.11	5.31	-108.95	900.46	-1,076.18	1,450.10	1,438.88	11.22	129.223	
1,800.00	1,785.27	1,628.47	1,618.28	6.61	5.79	-109.20	919.96	-1,077.91	1,471.90	1,459.74	12.16	121.086	
1,900.00	1,879.82	1,728.13	1,716.69	7.15	6.21	-109.53	935.63	-1,079.47	1,493.97	1,480.91	13.07	114.337	
2,000.00	1,973.17	1,802.01	1,789.64	7.73	6.53	-109.73	947.18	-1,081.24	1,518.07	1,504.17	13.89	109.271	
2,100.00	2,065.21	1,926.99	1,913.23	8.37	7.06	-110.52	965.48	-1,084.34	1,543.20	1,528.20	15.00	102.894	
2,200.00	2,155.84	2,011.06	1,996.53	9.07	7.40	-110.99	976.58	-1,086.52	1,569.38	1,553.44	15.95	98.409	
2,300.00	2,244.94	2,096.45	2,081.13	9.82	7.76	-111.52	987.90	-1,089.29	1,597.91	1,580.97	16.94	94.313	
2,400.00	2,332.39	2,229.85	2,213.40	10.64	8.30	-112.73	1,004.94	-1,092.14	1,627.35	1,609.14	18.21	89.367	
2,500.00	2,418.11	2,342.29	2,325.06	11.53	8.76	-113.73	1,018.12	-1,092.05	1,656.55	1,637.14	19.42	85.318	
2,558.91	2,467.74	2,395.65	2,378.06	12.08	8.97	-114.15	1,024.23	-1,091.71	1,674.47	1,654.39	20.08	83.372	
2,600.00	2,502.13	2,432.13	2,414.32	12.47	9.12	-114.69	1,028.34	-1,091.48	1,687.30	1,666.75	20.55	82.103	
2,700.00	2,585.83	2,518.60	2,500.24	13.45	9.46	-115.92	1,038.04	-1,090.99	1,719.14	1,697.46	21.68	79.306	
2,800.00	2,669.53	2,620.06	2,600.99	14.44	9.87	-117.30	1,049.95	-1,089.84	1,751.57	1,728.69	22.88	76.553	
2,900.00	2,753.22	2,700.36	2,680.53	15.46	10.20	-118.30	1,060.72	-1,087.76	1,784.19	1,760.20	23.99	74.374	
3,000.00	2,836.92	2,759.94	2,739.47	16.48	10.45	-119.01	1,069.37	-1,086.63	1,818.43	1,793.44	24.99	72.775	
3,100.00	2,920.62	2,807.35	2,786.30	17.52	10.65	-119.56	1,076.81	-1,086.57	1,855.01	1,829.11	25.90	71.620	
3,200.00	3,004.32	2,869.08	2,847.15	18.56	10.92	-120.25	1,087.07	-1,087.58	1,893.82	1,866.94	26.88	70.455	
3,300.00	3,088.01	2,949.34	2,926.30	19.61	11.28	-121.14	1,100.22	-1,089.56	1,933.79	1,905.83	27.96	69.164	
3,400.00	3,171.71	3,043.96	3,019.72	20.67	11.69	-122.16	1,115.12	-1,091.98	1,974.14	1,945.03	29.12	67.803	
3,500.00	3,255.41	3,142.39	3,117.04	21.73	12.11	-123.21	1,129.59	-1,094.24	2,014.49	1,984.21	30.28	66.531	
3,600.00	3,339.10	3,240.83	3,214.58	22.80	12.52	-124.26	1,142.71	-1,096.31	2,054.80	2,023.38	31.42	65.394	
3,700.00	3,422.80	3,341.05	3,314.06	23.87	12.92	-125.31	1,154.81	-1,098.13	2,095.04	2,062.49	32.55	64.357	
3,800.00	3,506.50	3,432.88	3,405.24	24.94	13.30	-126.24	1,165.55	-1,099.37	2,135.30	2,101.67	33.63	63.492	
3,900.00	3,590.20	3,523.48	3,495.00	26.02	13.68	-127.08	1,177.92	-1,099.96	2,175.83	2,141.13	34.70	62.698	
4,000.00	3,673.89	3,613.92	3,584.49	27.10	14.06	-127.87	1,190.96	-1,100.19	2,216.58	2,180.80	35.78	61.957	
4,100.00	3,757.59	3,716.33	3,686.09	28.18	14.48	-128.78	1,203.77	-1,100.52	2,257.36	2,220.46	36.90	61.180	
4,200.00	3,841.29	3,813.36	3,782.57	29.26	14.86	-129.65	1,214.09	-1,100.61	2,297.97	2,260.01	37.95	60.545	
4,300.00	3,924.99	3,868.79	3,837.74	30.35	15.08	-130.16	1,219.43	-1,101.06	2,339.38	2,300.63	38.75	60.374	
4,400.00	4,008.68	3,930.45	3,899.12	31.44	15.31	-130.71	1,225.11	-1,102.35	2,382.18	2,342.62	39.56	60.222	
4,500.00	4,092.38	4,008.55	3,976.88	32.52	15.61	-131.41	1,232.08	-1,104.63	2,426.03	2,385.58	40.45	59.979	
4,600.00	4,176.08	4,107.68	4,075.70	33.62	15.98	-132.30	1,239.47	-1,107.05	2,469.61	2,428.17	41.44	59.593	
4,700.00	4,259.77	4,170.10	4,137.93	34.71	16.21	-132.84	1,244.03	-1,108.93	2,514.06	2,471.86	42.21	59.567	
4,800.00	4,343.47	4,341.80	4,308.48	35.80	16.90	-134.11	1,263.21	-1,111.92	2,558.80	2,515.10	43.70	58.560	
4,900.00	4,427.17	4,433.11	4,398.90	36.89	17.28	-134.70	1,275.86	-1,110.96	2,601.17	2,556.46	44.71	58.183	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,510.87	4,497.92	4,463.13	37.99	17.55	-135.10	1,284.54	-1,110.43	2,643.95	2,598.42	45.53	58.065	
5,100.00	4,594.56	4,551.00	4,515.68	39.08	17.77	-135.43	1,292.03	-1,110.64	2,688.00	2,641.73	46.27	58.090	
5,200.00	4,678.26	4,616.65	4,580.68	40.18	18.05	-135.82	1,301.19	-1,111.57	2,733.12	2,686.04	47.09	58.045	
5,300.00	4,761.96	4,694.11	4,657.50	41.28	18.37	-136.29	1,310.94	-1,113.25	2,778.95	2,730.99	47.96	57.943	
5,400.00	4,845.66	4,773.04	4,735.93	42.37	18.69	-136.79	1,319.62	-1,115.19	2,825.11	2,776.29	48.82	57.863	
5,500.00	4,929.35	4,857.52	4,819.73	43.47	19.04	-137.29	1,330.08	-1,117.40	2,871.69	2,821.95	49.74	57.735	
5,600.00	5,013.05	4,944.52	4,905.49	44.57	19.42	-137.70	1,344.54	-1,119.22	2,918.27	2,867.55	50.72	57.540	
5,700.00	5,096.75	5,023.87	4,983.42	45.67	19.78	-138.03	1,359.34	-1,120.98	2,965.18	2,913.52	51.66	57.400	
5,800.00	5,180.45	5,112.52	5,070.66	46.77	20.18	-138.41	1,374.99	-1,123.06	3,012.24	2,959.58	52.66	57.202	
5,900.00	5,264.14	5,206.77	5,163.82	47.87	20.58	-138.85	1,389.08	-1,125.26	3,059.27	3,005.60	53.67	57.005	
6,000.00	5,347.84	5,301.11	5,257.47	48.97	20.97	-139.34	1,400.19	-1,127.30	3,106.16	3,051.53	54.63	56.863	
6,100.00	5,431.54	5,386.53	5,342.50	50.07	21.30	-139.82	1,408.13	-1,129.12	3,153.08	3,097.59	55.49	56.825	
6,200.00	5,515.23	5,464.52	5,420.07	51.17	21.61	-140.23	1,416.04	-1,130.84	3,200.28	3,143.97	56.31	56.838	
6,300.00	5,598.93	5,538.48	5,493.27	52.27	21.92	-140.55	1,426.50	-1,132.64	3,247.89	3,190.76	57.13	56.851	
6,400.00	5,682.63	5,616.64	5,570.49	53.38	22.26	-140.86	1,438.37	-1,134.75	3,295.86	3,237.86	58.00	56.823	
6,500.00	5,766.33	5,701.25	5,654.35	54.48	22.61	-141.22	1,449.33	-1,137.19	3,344.05	3,285.16	58.89	56.783	
6,600.00	5,850.02	5,941.06	5,892.54	55.58	23.57	-142.28	1,476.79	-1,138.31	3,390.04	3,329.19	60.85	55.709	
6,700.00	5,933.72	6,021.26	5,972.02	56.68	23.90	-142.59	1,487.47	-1,136.85	3,434.43	3,372.71	61.72	55.648	
6,800.00	6,017.42	6,065.00	6,015.35	57.79	24.08	-142.75	1,493.39	-1,136.35	3,479.62	3,417.30	62.32	55.837	
6,900.00	6,101.12	6,125.54	6,075.38	58.89	24.33	-142.98	1,501.24	-1,136.27	3,525.72	3,462.69	63.02	55.942	
7,000.00	6,184.81	6,179.85	6,129.28	59.99	24.55	-143.19	1,507.77	-1,136.86	3,572.88	3,509.20	63.67	56.112	
7,100.00	6,268.51	6,244.47	6,193.39	61.10	24.82	-143.43	1,515.83	-1,137.99	3,620.72	3,556.33	64.40	56.227	
7,200.00	6,352.21	6,320.84	6,269.18	62.20	25.13	-143.72	1,525.13	-1,139.65	3,669.02	3,603.82	65.20	56.275	
7,300.00	6,435.90	6,440.05	6,387.55	63.31	25.61	-144.16	1,539.07	-1,141.63	3,716.93	3,650.61	66.31	56.050	
7,400.00	6,519.60	6,491.03	6,438.20	64.41	25.82	-144.35	1,544.79	-1,142.56	3,765.14	3,698.22	66.91	56.268	
7,500.00	6,603.30	6,547.62	6,494.47	65.51	26.04	-144.56	1,550.53	-1,144.07	3,814.18	3,746.64	67.54	56.474	
7,600.00	6,687.00	6,609.42	6,556.02	66.62	26.28	-144.81	1,555.81	-1,146.08	3,863.89	3,795.70	68.18	56.668	
7,700.00	6,770.69	6,846.75	6,792.41	67.72	27.17	-145.72	1,575.94	-1,150.30	3,912.79	3,842.73	70.06	55.853	
7,800.00	6,854.39	6,907.27	6,852.75	68.83	27.40	-145.96	1,580.66	-1,150.16	3,959.80	3,889.11	70.69	56.016	
7,900.00	6,938.09	6,956.00	6,901.38	69.93	27.58	-146.15	1,583.78	-1,150.42	4,007.65	3,936.41	71.23	56.262	
7,933.18	6,965.86	6,980.02	6,925.37	70.30	27.65	-146.25	1,584.89	-1,150.64	4,023.69	3,952.24	71.45	56.318	
7,950.00	6,980.00	6,990.65	6,935.99	70.49	27.69	-149.55	1,585.21	-1,150.75	4,031.86	3,960.32	71.54	56.356	
8,000.00	7,022.68	7,022.33	6,967.67	71.01	27.79	-160.04	1,585.53	-1,151.07	4,056.41	3,984.60	71.81	56.486	
8,050.00	7,066.06	8,050.00	7,056.84	71.51	30.21	-171.57	1,578.79	-1,150.84	4,080.66	4,006.19	74.46	54.800	
8,100.00	7,109.82	7,135.00	7,079.84	71.97	28.07	176.62	1,576.56	-1,150.67	4,104.83	4,032.42	72.41	56.692	
8,150.00	7,153.63	7,166.75	7,111.00	72.38	28.12	164.77	1,570.53	-1,150.13	4,128.63	4,056.13	72.50	56.944	
8,200.00	7,197.14	7,178.43	7,122.39	72.74	28.14	153.45	1,567.93	-1,150.08	4,152.48	4,079.95	72.53	57.253	
8,250.00	7,240.04	7,190.11	7,133.72	73.05	28.15	143.02	1,565.13	-1,150.10	4,175.99	4,103.46	72.53	57.575	
8,300.00	7,281.99	7,224.00	7,166.32	73.31	28.21	133.75	1,555.86	-1,150.58	4,199.23	4,126.68	72.55	57.880	
8,350.00	7,322.67	7,224.00	7,166.32	73.52	28.21	125.58	1,555.86	-1,150.58	4,221.41	4,148.91	72.50	58.230	
8,400.00	7,361.77	7,224.00	7,166.32	73.68	28.21	118.47	1,555.86	-1,150.58	4,242.88	4,170.46	72.43	58.583	
8,450.00	7,399.01	7,224.00	7,166.32	73.78	28.21	112.32	1,555.86	-1,150.58	4,263.51	4,191.16	72.35	58.932	
8,500.00	7,434.08	7,224.00	7,166.32	73.85	28.21	107.03	1,555.86	-1,150.58	4,283.14	4,210.88	72.26	59.274	
8,550.00	7,466.74	7,224.00	7,166.32	73.87	28.21	102.48	1,555.86	-1,150.58	4,301.64	4,229.47	72.17	59.602	
8,600.00	7,496.72	7,263.77	7,203.95	73.85	28.24	98.90	1,543.08	-1,152.07	4,318.11	4,245.97	72.14	59.856	
8,650.00	7,523.80	7,272.87	7,212.45	73.79	28.25	95.69	1,539.90	-1,152.56	4,333.60	4,261.52	72.08	60.125	
8,700.00	7,547.77	7,313.00	7,249.50	73.70	28.29	93.27	1,524.75	-1,155.41	4,348.03	4,275.99	72.05	60.349	
8,750.00	7,568.45	7,313.00	7,249.50	73.58	28.29	90.99	1,524.75	-1,155.41	4,360.17	4,288.17	72.00	60.556	
8,800.00	7,585.69	7,313.00	7,249.50	73.43	28.29	89.12	1,524.75	-1,155.41	4,370.70	4,298.73	71.97	60.727	
8,850.00	7,599.35	7,313.00	7,249.50	73.26	28.29	87.64	1,524.75	-1,155.41	4,379.56	4,307.60	71.96	60.858	
8,900.00	7,609.33	7,313.00	7,249.50	73.07	28.29	86.53	1,524.75	-1,155.41	4,386.70	4,314.72	71.98	60.946	
8,950.00	7,615.55	7,313.00	7,249.50	72.87	28.29	85.77	1,524.75	-1,155.41	4,392.06	4,320.05	72.01	60.989	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	7,313.00	7,249.50	72.65	28.29	85.36	1,524.75	-1,155.41	4,395.62	4,323.55	72.08	60.986	
9,006.60	7,618.00	7,313.00	7,249.50	72.62	28.29	85.33	1,524.75	-1,155.41	4,395.95	4,323.87	72.09	60.983	
9,100.00	7,618.00	7,346.38	7,279.78	72.22	28.31	85.73	1,511.04	-1,158.43	4,401.11	4,328.86	72.26	60.909	
9,200.00	7,618.00	8,293.00	7,789.70	71.80	29.19	92.39	773.80	-1,163.96	4,399.75	4,330.06	69.69	63.137	
9,300.00	7,618.00	8,293.00	7,789.70	71.41	29.19	92.39	773.80	-1,163.96	4,393.01	4,323.00	70.01	62.748	
9,400.00	7,618.00	8,354.21	7,791.80	71.04	29.41	92.42	712.70	-1,161.13	4,388.06	4,317.83	70.23	62.481	
9,500.00	7,618.00	8,435.19	7,792.15	70.68	29.76	92.42	631.79	-1,157.71	4,383.52	4,313.02	70.50	62.176	
9,600.00	7,618.00	8,502.46	7,792.13	70.35	30.09	92.42	564.57	-1,155.25	4,379.55	4,308.66	70.89	61.776	
9,700.00	7,618.00	8,560.00	7,792.56	70.04	30.40	92.43	507.05	-1,153.65	4,376.47	4,305.11	71.37	61.324	
9,800.00	7,618.00	8,621.42	7,793.08	69.75	30.78	92.44	445.64	-1,152.51	4,374.32	4,302.38	71.94	60.807	
9,900.00	7,618.00	8,689.93	7,793.05	69.47	31.23	92.44	377.14	-1,151.86	4,373.02	4,300.42	72.60	60.235	
10,000.00	7,618.00	8,775.74	7,791.42	69.22	31.86	92.42	291.34	-1,151.60	4,372.29	4,298.88	73.41	59.560	
10,100.00	7,618.00	8,874.71	7,787.36	68.99	32.65	92.36	192.46	-1,151.43	4,371.61	4,297.21	74.40	58.757	
10,200.00	7,618.00	8,948.31	7,784.22	68.78	33.29	92.32	118.92	-1,151.47	4,371.18	4,295.79	75.39	57.983	
10,202.45	7,618.00	8,949.72	7,784.17	68.77	33.31	92.32	117.51	-1,151.48	4,371.18	4,295.77	75.41	57.965	
10,300.00	7,618.00	9,006.00	7,782.80	68.59	33.81	92.30	61.26	-1,151.99	4,371.64	4,295.29	76.35	57.254	
10,400.00	7,618.00	9,070.60	7,781.18	68.42	34.43	92.28	-3.31	-1,153.15	4,372.99	4,295.55	77.44	56.468	
10,500.00	7,618.00	9,362.00	7,761.22	68.28	37.53	92.02	-293.85	-1,152.07	4,370.99	4,290.43	80.56	54.258	
10,600.00	7,618.00	9,397.90	7,760.92	68.16	37.95	92.02	-329.75	-1,151.47	4,369.06	4,287.42	81.64	53.513	
10,672.81	7,618.00	9,421.01	7,761.22	68.08	38.22	92.02	-352.85	-1,151.41	4,368.65	4,286.22	82.42	53.002	
10,700.00	7,618.00	9,451.00	7,762.22	68.06	38.56	92.04	-382.82	-1,151.70	4,368.87	4,285.93	82.94	52.677	
10,702.79	7,618.00	9,451.00	7,762.22	68.06	38.56	92.04	-382.82	-1,151.70	4,368.87	4,285.91	82.96	52.663	
10,800.00	7,618.00	9,474.46	7,763.27	67.99	38.84	92.05	-406.26	-1,152.11	4,369.86	4,285.92	83.94	52.057	
10,900.00	7,618.00	9,548.66	7,766.84	67.95	39.74	92.10	-480.35	-1,153.73	4,371.87	4,286.32	85.55	51.101	
11,000.00	7,618.00	9,648.23	7,770.53	67.95	40.97	92.14	-579.82	-1,156.23	4,374.18	4,286.64	87.54	49.969	
11,100.00	7,618.00	9,834.80	7,773.90	67.97	43.36	92.19	-766.32	-1,159.55	4,375.87	4,285.09	90.78	48.205	
11,200.00	7,618.00	9,957.23	7,776.01	68.04	45.00	92.21	-888.72	-1,159.83	4,375.81	4,282.49	93.32	46.891	
11,272.48	7,618.00	10,021.18	7,776.07	68.11	45.88	92.21	-952.68	-1,159.95	4,375.70	4,280.84	94.86	46.128	
11,300.00	7,618.00	10,042.89	7,776.28	68.15	46.18	92.22	-974.38	-1,160.03	4,375.71	4,280.31	95.41	45.863	
11,400.00	7,618.00	10,126.26	7,777.97	68.30	47.34	92.24	-1,057.74	-1,160.53	4,376.05	4,278.53	97.52	44.871	
11,500.00	7,618.00	10,234.75	7,779.71	68.50	48.87	92.26	-1,166.20	-1,161.39	4,376.58	4,276.49	100.09	43.727	
11,600.00	7,618.00	10,319.50	7,780.22	68.75	50.09	92.27	-1,250.95	-1,162.00	4,377.00	4,274.67	102.33	42.774	
11,700.00	7,618.00	10,400.09	7,782.16	69.06	51.26	92.29	-1,331.51	-1,162.92	4,377.89	4,273.35	104.55	41.875	
11,800.00	7,618.00	10,473.73	7,783.64	69.44	52.34	92.31	-1,405.13	-1,164.11	4,379.27	4,272.59	106.68	41.051	
11,900.00	7,618.00	10,550.70	7,783.49	69.88	53.47	92.31	-1,482.07	-1,165.96	4,381.30	4,272.41	108.89	40.236	
12,000.00	7,618.00	10,636.76	7,784.81	70.39	54.75	92.33	-1,568.09	-1,168.21	4,383.64	4,272.34	111.30	39.386	
12,100.00	7,618.00	10,699.00	7,786.06	70.97	55.68	92.34	-1,630.29	-1,170.12	4,386.52	4,273.22	113.30	38.715	
12,200.00	7,618.00	11,144.00	7,785.27	71.63	62.54	92.33	-2,074.82	-1,170.23	4,386.86	4,264.32	122.54	35.798	
12,300.00	7,618.00	11,202.21	7,786.33	72.35	63.46	92.35	-2,132.97	-1,167.76	4,382.58	4,257.94	124.65	35.160	
12,400.00	7,618.00	11,253.40	7,787.50	73.15	64.28	92.36	-2,184.13	-1,166.49	4,379.75	4,253.14	126.62	34.590	
12,500.00	7,618.00	11,340.61	7,789.73	74.01	65.66	92.39	-2,271.29	-1,164.70	4,377.48	4,248.18	129.31	33.854	
12,600.00	7,618.00	11,418.53	7,789.73	74.93	66.91	92.39	-2,349.20	-1,163.59	4,375.70	4,243.88	131.82	33.194	
12,700.00	7,618.00	11,548.81	7,790.70	75.91	69.00	92.41	-2,479.44	-1,161.18	4,373.47	4,238.05	135.42	32.296	
12,800.00	7,618.00	11,630.71	7,795.31	76.95	70.33	92.47	-2,561.19	-1,159.55	4,371.39	4,233.31	138.08	31.658	
12,900.00	7,618.00	11,708.38	7,801.14	78.04	71.59	92.55	-2,638.63	-1,158.31	4,369.78	4,229.11	140.67	31.064	
13,000.00	7,618.00	11,785.80	7,807.74	79.16	72.85	92.63	-2,715.76	-1,157.46	4,368.72	4,225.46	143.27	30.494	
13,100.00	7,618.00	11,876.97	7,813.77	80.33	74.34	92.71	-2,806.73	-1,156.88	4,368.05	4,221.89	146.16	29.885	
13,200.00	7,618.00	12,015.27	7,818.79	81.54	76.61	92.78	-2,944.92	-1,155.83	4,367.18	4,217.09	150.08	29.098	
13,300.00	7,618.00	12,147.20	7,819.06	82.78	78.78	92.79	-3,076.83	-1,153.77	4,365.27	4,211.39	153.88	28.367	
13,400.00	7,618.00	12,213.00	7,817.20	84.05	79.87	92.76	-3,142.59	-1,152.51	4,363.08	4,206.81	156.27	27.920	
13,500.00	7,618.00	12,266.50	7,814.88	85.35	80.75	92.73	-3,196.04	-1,152.02	4,361.88	4,203.49	158.39	27.539	
13,524.96	7,618.00	12,275.48	7,814.46	85.68	80.90	92.73	-3,205.01	-1,152.06	4,361.84	4,203.02	158.82	27.464	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,600.00	7,618.00	12,304.51	7,813.04	86.67	81.38	92.71	-3,234.00	-1,152.39	4,362.25	4,202.10	160.15	27.239	
13,700.00	7,618.00	12,427.77	7,808.34	88.02	83.41	92.65	-3,357.16	-1,153.63	4,362.67	4,198.86	163.81	26.632	
13,800.00	7,618.00	12,554.41	7,807.81	89.38	85.51	92.64	-3,483.79	-1,154.92	4,363.45	4,195.87	167.58	26.038	
13,900.00	7,618.00	12,696.20	7,805.51	90.77	87.88	92.61	-3,625.55	-1,154.31	4,362.48	4,190.77	171.71	25.406	
13,997.30	7,618.00	12,748.00	7,804.91	92.13	88.74	92.60	-3,677.34	-1,154.06	4,361.80	4,187.99	173.80	25.097	
14,000.00	7,618.00	12,748.00	7,804.91	92.17	88.74	92.60	-3,677.34	-1,154.06	4,361.80	4,187.97	173.83	25.093	
14,100.00	7,618.00	12,790.89	7,805.13	93.59	89.46	92.60	-3,720.23	-1,154.34	4,362.35	4,186.63	175.72	24.826	
14,200.00	7,618.00	12,837.00	7,806.04	95.02	90.23	92.61	-3,766.31	-1,155.60	4,364.57	4,186.90	177.67	24.566	
14,300.00	7,618.00	12,883.78	7,807.28	96.47	91.00	92.63	-3,813.04	-1,157.44	4,368.01	4,188.40	179.61	24.320	
14,400.00	7,618.00	12,957.25	7,809.03	97.93	92.23	92.65	-3,886.42	-1,160.59	4,372.09	4,189.90	182.18	23.998	
14,500.00	7,618.00	13,213.73	7,811.74	99.41	96.51	92.68	-4,142.74	-1,168.14	4,374.76	4,185.58	189.18	23.125	
14,600.00	7,618.00	13,580.19	7,821.21	100.89	102.74	92.81	-4,508.65	-1,159.10	4,370.76	4,172.21	198.55	22.013	
14,700.00	7,618.00	13,639.00	7,823.71	102.38	103.75	92.85	-4,567.36	-1,156.68	4,366.31	4,165.34	200.96	21.727	
14,800.00	7,618.00	13,639.00	7,823.71	103.89	103.75	92.85	-4,567.36	-1,156.68	4,363.16	4,161.16	202.00	21.599	
14,900.00	7,618.00	13,695.43	7,825.36	105.40	104.71	92.87	-4,623.75	-1,155.59	4,361.31	4,157.01	204.30	21.347	
14,976.27	7,618.00	13,728.00	7,825.86	106.56	105.26	92.88	-4,656.31	-1,155.56	4,360.97	4,155.18	205.79	21.191	
15,000.00	7,618.00	13,737.23	7,825.95	106.92	105.42	92.88	-4,665.54	-1,155.61	4,361.03	4,154.80	206.23	21.147	
15,100.00	7,618.00	13,931.87	7,825.25	108.45	108.73	92.87	-4,860.17	-1,155.22	4,360.65	4,148.87	211.78	20.591	
15,200.00	7,618.00	13,995.00	7,825.49	109.99	109.81	92.87	-4,923.29	-1,154.93	4,359.64	4,145.40	214.24	20.350	
15,300.00	7,618.00	15,300.00	7,825.79	111.54	132.08	92.88	-4,995.23	-1,154.91	4,359.20	4,121.29	237.91	18.323	
15,400.00	7,618.00	14,163.88	7,827.00	113.09	112.70	92.89	-5,092.16	-1,154.61	4,358.63	4,138.47	220.16	19.798	
15,421.22	7,618.00	14,173.00	7,827.30	113.42	112.85	92.90	-5,101.28	-1,154.61	4,358.59	4,138.02	220.57	19.760	
15,500.00	7,618.00	14,207.31	7,828.25	114.65	113.44	92.91	-5,135.57	-1,154.82	4,358.96	4,136.84	222.11	19.625	
15,600.00	7,618.00	14,445.34	7,826.32	116.21	117.50	92.88	-5,373.53	-1,156.65	4,360.66	4,131.89	228.77	19.061	
15,700.00	7,618.00	14,494.38	7,825.12	117.78	118.34	92.87	-5,422.56	-1,156.15	4,359.14	4,128.23	230.91	18.878	
15,800.00	7,618.00	15,800.00	7,825.05	119.36	140.78	92.87	-5,528.47	-1,155.51	4,358.20	4,103.19	255.01	17.090	
15,900.00	7,618.00	14,676.39	7,826.28	120.94	121.47	92.88	-5,604.54	-1,154.77	4,357.07	4,119.86	237.20	18.368	
15,956.09	7,618.00	14,708.00	7,827.07	121.83	122.02	92.90	-5,636.14	-1,154.79	4,356.94	4,118.45	238.50	18.268	
16,000.00	7,618.00	14,730.91	7,827.64	122.53	122.41	92.90	-5,659.04	-1,154.91	4,357.08	4,117.62	239.45	18.196	
16,100.00	7,618.00	14,797.90	7,828.96	124.12	123.56	92.92	-5,726.02	-1,155.66	4,357.94	4,115.95	242.00	18.008	
16,200.00	7,618.00	14,886.00	7,829.05	125.72	125.07	92.92	-5,814.11	-1,156.84	4,359.00	4,113.94	245.06	17.787	
16,300.00	7,618.00	14,953.60	7,828.71	127.32	126.23	92.92	-5,881.69	-1,158.12	4,360.63	4,113.04	247.60	17.612	
16,400.00	7,618.00	15,032.18	7,829.36	128.93	127.57	92.92	-5,960.23	-1,160.46	4,363.27	4,112.86	250.41	17.424	
16,500.00	7,618.00	15,227.46	7,829.32	130.54	130.92	92.92	-6,155.45	-1,164.97	4,365.55	4,109.33	256.22	17.038	
16,600.00	7,618.00	15,332.00	7,829.54	132.15	132.72	92.92	-6,259.99	-1,165.19	4,365.40	4,105.68	259.72	16.808	
16,604.97	7,618.00	15,354.83	7,829.52	132.23	133.12	92.92	-6,282.82	-1,165.20	4,365.28	4,104.94	260.33	16.768	
16,700.00	7,618.00	15,393.39	7,830.04	133.77	133.78	92.93	-6,321.37	-1,165.57	4,365.94	4,103.81	262.13	16.655	
16,800.00	7,618.00	15,458.99	7,832.17	135.39	134.91	92.96	-6,386.92	-1,167.02	4,367.87	4,103.23	264.64	16.505	
16,900.00	7,618.00	15,556.60	7,835.05	137.01	136.59	92.99	-6,484.46	-1,169.20	4,369.92	4,101.96	267.97	16.308	
17,000.00	7,618.00	17,000.00	7,836.84	138.64	161.45	93.01	-6,601.80	-1,171.82	4,371.89	4,077.27	294.63	14.839	
17,100.00	7,618.00	15,777.00	7,839.47	140.27	140.39	93.05	-6,704.77	-1,173.45	4,373.25	4,097.96	275.29	15.886	
17,200.00	7,618.00	16,045.00	7,841.40	141.91	145.02	93.07	-6,972.70	-1,175.82	4,375.15	4,092.27	282.88	15.466	
17,300.00	7,618.00	16,109.28	7,842.63	143.55	146.14	93.09	-7,036.96	-1,174.71	4,373.28	4,087.84	285.44	15.321	
17,400.00	7,618.00	16,167.55	7,844.47	145.19	147.15	93.11	-7,095.19	-1,174.35	4,372.48	4,084.65	287.83	15.191	
17,441.03	7,618.00	16,193.39	7,845.27	145.86	147.60	93.12	-7,121.02	-1,174.35	4,372.41	4,083.56	288.86	15.137	
17,500.00	7,618.00	16,231.30	7,846.37	146.83	148.25	93.14	-7,158.92	-1,174.52	4,372.56	4,082.22	290.34	15.060	
17,600.00	7,618.00	16,300.76	7,847.23	148.48	149.46	93.15	-7,228.37	-1,175.28	4,373.39	4,080.42	292.97	14.928	
17,700.00	7,618.00	16,382.47	7,847.30	150.13	150.87	93.15	-7,310.06	-1,176.72	4,374.80	4,078.89	295.91	14.784	
17,800.00	7,618.00	16,537.31	7,850.06	151.78	153.55	93.18	-7,464.86	-1,178.46	4,375.64	4,074.88	300.75	14.549	
17,900.00	7,618.00	16,675.28	7,855.92	153.43	155.95	93.26	-7,602.70	-1,178.66	4,375.73	4,070.59	305.14	14.340	
17,980.80	7,618.00	16,733.39	7,857.67	154.77	156.96	93.28	-7,660.79	-1,178.64	4,375.56	4,068.22	307.34	14.237	
18,000.00	7,618.00	16,748.13	7,857.96	155.09	157.22	93.29	-7,675.53	-1,178.68	4,375.57	4,067.68	307.89	14.212	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,100.00	7,618.00	16,885.75	7,860.84	156.75	159.61	93.33	-7,813.12	-1,178.39	4,375.10	4,062.83	312.27	14.011	
18,200.00	7,618.00	16,962.22	7,862.88	158.41	160.94	93.35	-7,889.55	-1,178.06	4,374.52	4,059.40	315.12	13.882	
18,222.86	7,618.00	16,975.52	7,863.10	158.79	161.17	93.36	-7,902.85	-1,178.08	4,374.49	4,058.83	315.66	13.858	
18,300.00	7,618.00	17,025.00	7,863.27	160.07	162.03	93.36	-7,952.33	-1,178.44	4,374.78	4,057.18	317.60	13.774	
18,400.00	7,618.00	17,223.85	7,868.08	161.74	165.50	93.42	-8,151.10	-1,177.93	4,374.37	4,050.84	323.53	13.521	
18,500.00	7,618.00	17,317.72	7,869.80	163.41	167.14	93.45	-8,244.94	-1,176.68	4,372.82	4,045.99	326.82	13.380	
18,600.00	7,618.00	17,442.47	7,867.94	165.08	169.31	93.42	-8,369.66	-1,175.15	4,371.20	4,040.32	330.88	13.211	
18,700.00	7,618.00	17,471.00	7,867.23	166.75	169.81	93.41	-8,398.18	-1,174.71	4,369.73	4,037.17	332.56	13.140	
18,711.30	7,618.00	17,471.00	7,867.23	166.94	169.81	93.41	-8,398.18	-1,174.71	4,369.70	4,037.04	332.66	13.136	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-53.43	786.89	-1,060.90	1,320.91				
100.00	100.00	88.01	88.01	0.13	0.15	-53.43	786.92	-1,060.91	1,320.90	1,320.62	0.28	4,704.807	CC
200.00	200.00	186.89	186.89	0.49	0.31	-53.43	787.04	-1,060.96	1,321.02	1,320.21	0.80	1,643.828	
300.00	300.00	285.77	285.77	0.85	0.48	-53.43	787.26	-1,061.06	1,321.22	1,319.89	1.33	996.028	
400.00	400.00	381.95	381.95	1.21	0.76	-53.42	787.63	-1,061.20	1,321.58	1,319.61	1.97	671.608	ES
500.00	500.00	476.82	476.81	1.57	1.10	-53.40	788.43	-1,061.47	1,322.30	1,319.64	2.67	495.929	
600.00	600.00	571.68	571.66	1.93	1.44	-53.36	789.67	-1,061.87	1,323.42	1,320.05	3.36	393.321	
700.00	700.00	674.46	674.43	2.29	1.81	-53.32	791.28	-1,062.27	1,324.67	1,320.58	4.09	323.772	
800.00	800.00	763.88	763.84	2.64	2.13	-53.29	792.68	-1,062.89	1,326.17	1,321.40	4.77	278.032	
900.00	900.00	864.35	864.29	3.00	2.49	-53.24	794.71	-1,063.79	1,328.09	1,322.60	5.49	241.990	
1,000.00	999.98	971.82	971.73	3.36	2.87	-110.41	796.62	-1,064.31	1,330.14	1,323.91	6.23	213.581	
1,100.00	1,099.84	1,069.48	1,069.32	3.71	3.22	-110.41	800.19	-1,063.37	1,333.38	1,326.45	6.93	192.426	
1,200.00	1,199.45	1,181.12	1,180.83	4.07	3.62	-110.50	805.18	-1,061.25	1,337.60	1,329.91	7.69	174.040	
1,300.00	1,298.70	1,285.48	1,285.04	4.44	3.99	-110.68	809.86	-1,058.26	1,342.27	1,333.84	8.42	159.329	
1,400.00	1,397.47	1,372.33	1,371.68	4.82	4.31	-110.85	815.07	-1,055.21	1,348.59	1,339.47	9.12	147.928	
1,500.00	1,495.62	1,464.41	1,463.30	5.22	4.65	-111.01	823.15	-1,050.92	1,356.88	1,347.03	9.85	137.750	
1,600.00	1,593.06	1,559.17	1,557.25	5.65	5.01	-111.15	834.08	-1,045.10	1,366.88	1,356.25	10.62	128.649	
1,700.00	1,689.64	1,649.20	1,646.14	6.11	5.36	-111.26	846.66	-1,038.45	1,378.58	1,367.16	11.42	120.745	
1,800.00	1,785.27	1,725.45	1,721.30	6.61	5.67	-111.34	858.40	-1,033.19	1,392.80	1,380.61	12.19	114.268	
1,900.00	1,879.82	1,804.27	1,798.98	7.15	5.99	-111.48	871.02	-1,028.82	1,409.82	1,396.81	13.01	108.395	
2,000.00	1,973.17	1,881.28	1,874.89	7.73	6.30	-111.68	883.61	-1,025.63	1,429.59	1,415.73	13.85	103.211	
2,100.00	2,065.21	1,954.90	1,947.46	8.37	6.61	-111.89	895.81	-1,023.71	1,452.23	1,437.51	14.72	98.689	
2,200.00	2,155.84	2,043.43	2,034.75	9.07	6.97	-112.31	910.52	-1,022.69	1,477.65	1,461.96	15.69	94.178	
2,300.00	2,244.94	2,178.63	2,167.97	9.82	7.54	-113.27	933.17	-1,018.78	1,503.55	1,486.61	16.95	88.717	
2,400.00	2,332.39	2,264.60	2,252.51	10.64	7.91	-113.71	948.21	-1,014.61	1,529.97	1,511.95	18.01	84.927	
2,500.00	2,418.11	2,355.93	2,342.32	11.53	8.31	-114.26	964.26	-1,010.35	1,558.43	1,539.28	19.15	81.370	
2,558.91	2,467.74	2,406.61	2,392.19	12.08	8.53	-114.57	972.98	-1,008.13	1,576.17	1,556.34	19.82	79.512	
2,600.00	2,502.13	2,441.96	2,427.01	12.47	8.68	-115.03	978.94	-1,006.69	1,588.88	1,568.58	20.30	78.289	
2,700.00	2,585.83	2,529.44	2,513.20	13.45	9.06	-116.15	993.50	-1,003.31	1,620.37	1,598.91	21.45	75.530	
2,800.00	2,669.53	2,655.42	2,637.42	14.44	9.61	-117.72	1,013.74	-997.76	1,651.97	1,629.15	22.82	72.395	
2,900.00	2,753.22	2,773.65	2,753.61	15.46	10.13	-119.05	1,033.38	-988.28	1,681.05	1,656.89	24.16	69.582	
3,000.00	2,836.92	2,830.67	2,809.61	16.48	10.39	-119.67	1,043.27	-984.12	1,711.73	1,686.56	25.17	68.009	
3,100.00	2,920.62	2,906.72	2,884.48	17.52	10.73	-120.50	1,055.93	-979.93	1,744.16	1,717.89	26.26	66.410	
3,200.00	3,004.32	2,988.56	2,965.29	18.56	11.08	-121.41	1,068.38	-976.46	1,777.67	1,750.30	27.37	64.955	
3,300.00	3,088.01	3,143.38	3,118.60	19.61	11.73	-123.17	1,088.49	-968.89	1,810.68	1,781.84	28.84	62.781	
3,400.00	3,171.71	3,238.69	3,212.72	20.67	12.14	-124.15	1,101.39	-961.24	1,841.53	1,811.53	30.00	61.380	
3,500.00	3,255.41	3,311.21	3,284.21	21.73	12.45	-124.85	1,112.25	-955.81	1,873.71	1,842.67	31.04	60.369	
3,600.00	3,339.10	3,393.58	3,365.61	22.80	12.81	-125.66	1,123.74	-950.51	1,906.96	1,874.85	32.11	59.387	
3,700.00	3,422.80	3,482.06	3,452.84	23.87	13.19	-126.47	1,137.22	-944.49	1,940.65	1,907.43	33.21	58.427	
3,800.00	3,506.50	3,558.36	3,528.16	24.94	13.53	-127.16	1,148.53	-939.79	1,975.17	1,940.94	34.23	57.695	
3,900.00	3,590.20	3,638.26	3,607.24	26.02	13.86	-127.90	1,159.20	-935.74	2,010.66	1,975.41	35.25	57.045	
4,000.00	3,673.89	3,752.09	3,719.99	27.10	14.34	-128.94	1,173.34	-929.13	2,045.60	2,009.16	36.44	56.138	
4,100.00	3,757.59	3,816.14	3,783.26	28.18	14.62	-129.47	1,182.61	-925.44	2,081.48	2,044.13	37.35	55.735	
4,200.00	3,841.29	3,885.58	3,851.66	29.26	14.93	-130.00	1,194.02	-921.89	2,118.63	2,080.34	38.29	55.331	
4,300.00	3,924.99	3,947.94	3,913.08	30.35	15.20	-130.46	1,204.52	-919.32	2,157.02	2,117.85	39.17	55.068	
4,400.00	4,008.68	4,026.12	3,990.36	31.44	15.54	-131.07	1,216.10	-917.41	2,196.72	2,156.59	40.13	54.742	
4,500.00	4,092.38	4,133.50	4,096.50	32.52	16.00	-131.88	1,232.06	-914.13	2,236.21	2,194.93	41.28	54.174	
4,600.00	4,176.08	4,268.43	4,229.30	33.62	16.61	-132.76	1,255.04	-907.85	2,274.96	2,232.31	42.64	53.349	
4,700.00	4,259.77	4,324.75	4,284.71	34.71	16.86	-133.11	1,264.77	-905.12	2,313.62	2,270.15	43.46	53.230	
4,800.00	4,343.47	4,415.57	4,374.03	35.80	17.27	-133.66	1,280.71	-901.22	2,353.09	2,308.57	44.52	52.852	
4,900.00	4,427.17	4,498.39	4,455.49	36.89	17.65	-134.15	1,295.22	-897.42	2,392.50	2,346.98	45.51	52.565	
5,000.00	4,510.87	4,567.48	4,523.61	37.99	17.96	-134.56	1,306.51	-895.04	2,432.89	2,386.50	46.39	52.445	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	4,735.49	4,689.45	39.08	18.69	-135.57	1,332.19	-887.20	2,472.33	2,424.39	47.93	51.580	
5,200.00	4,678.26	4,901.27	4,852.41	40.18	19.45	-136.45	1,359.81	-874.71	2,509.85	2,460.38	49.47	50.739	
5,300.00	4,761.96	4,992.29	4,941.44	41.28	19.88	-136.86	1,376.50	-865.76	2,545.27	2,494.74	50.53	50.373	
5,400.00	4,845.66	5,064.69	5,012.36	42.37	20.22	-137.20	1,389.39	-859.06	2,581.29	2,529.84	51.45	50.171	
5,500.00	4,929.35	5,130.11	5,076.65	43.47	20.52	-137.52	1,400.24	-853.64	2,618.22	2,565.92	52.30	50.062	
5,600.00	5,013.05	5,600.00	5,180.05	44.57	22.60	-138.06	1,415.75	-845.60	2,655.73	2,600.76	54.97	48.316	
5,700.00	5,096.75	5,336.75	5,280.37	45.67	21.44	-138.57	1,430.41	-836.75	2,692.35	2,637.91	54.43	49.462	
5,800.00	5,180.45	5,413.38	5,355.94	46.77	21.78	-138.95	1,441.48	-830.49	2,729.64	2,674.32	55.32	49.344	
5,900.00	5,264.14	5,486.58	5,427.94	47.87	22.11	-139.27	1,453.32	-824.73	2,767.47	2,711.28	56.19	49.251	
6,000.00	5,347.84	5,553.98	5,494.30	48.97	22.41	-139.57	1,464.09	-819.98	2,806.15	2,749.14	57.01	49.219	
6,100.00	5,431.54	5,625.00	5,564.43	50.07	22.73	-139.90	1,474.40	-815.60	2,845.65	2,787.81	57.84	49.201	
6,200.00	5,515.23	5,689.40	5,628.03	51.17	23.01	-140.19	1,483.90	-812.11	2,885.97	2,827.37	58.61	49.241	
6,300.00	5,598.93	5,748.13	5,685.90	52.27	23.27	-140.43	1,493.55	-809.39	2,927.20	2,867.86	59.34	49.329	
6,400.00	5,682.63	5,803.00	5,740.06	53.38	23.51	-140.67	1,502.13	-807.52	2,969.58	2,909.55	60.03	49.470	
6,500.00	5,766.33	5,895.14	5,830.88	54.48	23.92	-141.03	1,517.43	-804.85	3,012.54	2,951.53	61.01	49.375	
6,600.00	5,850.02	6,600.00	5,945.80	55.58	26.98	-141.47	1,536.45	-801.60	3,055.87	2,991.16	64.71	47.222	
6,700.00	5,933.72	6,141.20	6,073.85	56.68	24.99	-142.01	1,554.83	-795.40	3,097.18	3,033.78	63.40	48.849	
6,800.00	6,017.42	6,200.24	6,132.27	57.79	25.24	-142.25	1,562.91	-792.60	3,138.77	3,074.68	64.10	48.971	
6,900.00	6,101.12	6,261.50	6,192.99	58.89	25.50	-142.51	1,570.61	-790.37	3,181.38	3,116.60	64.78	49.107	
7,000.00	6,184.81	6,353.33	6,284.05	59.99	25.88	-142.89	1,582.12	-787.21	3,224.32	3,158.63	65.69	49.082	
7,100.00	6,268.51	6,432.21	6,362.09	61.10	26.22	-143.19	1,593.30	-784.67	3,267.54	3,201.02	66.52	49.119	
7,200.00	6,352.21	6,599.17	6,526.61	62.20	26.96	-143.72	1,620.72	-777.44	3,309.84	3,241.75	68.09	48.613	
7,300.00	6,435.90	6,653.92	6,580.48	63.31	27.21	-143.89	1,630.08	-774.68	3,351.60	3,282.83	68.77	48.738	
7,400.00	6,519.60	6,713.60	6,639.36	64.41	27.48	-144.08	1,639.59	-772.39	3,394.43	3,324.96	69.47	48.862	
7,500.00	6,603.30	7,140.00	7,060.46	65.51	29.04	-146.11	1,662.94	-730.06	3,427.80	3,355.83	71.97	47.627	
7,600.00	6,687.00	7,140.00	7,060.46	66.62	29.04	-146.11	1,662.94	-730.06	3,463.68	3,391.35	72.33	47.889	
7,700.00	6,770.69	7,176.78	7,096.49	67.72	29.10	-146.41	1,657.25	-725.42	3,500.90	3,428.23	72.67	48.175	
7,800.00	6,854.39	7,190.12	7,109.51	68.83	29.13	-146.52	1,654.63	-724.20	3,540.67	3,467.71	72.95	48.533	
7,900.00	6,938.09	7,229.00	7,147.18	69.93	29.19	-146.88	1,645.29	-722.04	3,583.09	3,509.87	73.21	48.940	
7,933.18	6,965.86	7,229.00	7,147.18	70.30	29.19	-146.88	1,645.29	-722.04	3,597.24	3,523.96	73.29	49.085	
7,950.00	6,980.00	7,229.00	7,147.18	70.49	29.19	-150.01	1,645.29	-722.04	3,604.53	3,531.21	73.32	49.162	
8,000.00	7,022.68	7,229.00	7,147.18	71.01	29.19	-160.05	1,645.29	-722.04	3,626.72	3,553.31	73.41	49.406	
8,050.00	7,066.06	7,229.00	7,147.18	71.51	29.19	-171.06	1,645.29	-722.04	3,649.54	3,576.07	73.47	49.673	
8,100.00	7,109.82	7,229.00	7,147.18	71.97	29.19	177.32	1,645.29	-722.04	3,672.82	3,599.31	73.51	49.963	
8,150.00	7,153.63	7,229.00	7,147.18	72.38	29.19	165.60	1,645.29	-722.04	3,696.37	3,622.84	73.53	50.271	
8,200.00	7,197.14	7,229.00	7,147.18	72.74	29.19	154.31	1,645.29	-722.04	3,720.01	3,646.48	73.52	50.595	
8,250.00	7,240.04	7,261.78	7,178.52	73.05	29.21	143.88	1,635.70	-721.48	3,742.99	3,669.47	73.52	50.909	
8,300.00	7,281.99	7,273.09	7,189.23	73.31	29.22	134.57	1,632.08	-721.46	3,765.82	3,692.32	73.49	51.240	
8,350.00	7,322.67	7,284.36	7,199.86	73.52	29.23	126.39	1,628.31	-721.54	3,788.07	3,714.62	73.45	51.570	
8,400.00	7,361.77	7,318.00	7,231.21	73.68	29.25	119.39	1,616.15	-722.28	3,809.87	3,736.46	73.41	51.898	
8,450.00	7,399.01	7,318.00	7,231.21	73.78	29.25	113.25	1,616.15	-722.28	3,830.34	3,756.98	73.36	52.213	
8,500.00	7,434.08	7,318.00	7,231.21	73.85	29.25	107.95	1,616.15	-722.28	3,849.93	3,776.62	73.31	52.517	
8,550.00	7,466.74	7,337.61	7,249.23	73.87	29.25	103.51	1,608.48	-723.00	3,868.40	3,795.15	73.25	52.808	
8,600.00	7,496.72	7,357.78	7,267.61	73.85	29.26	99.75	1,600.20	-723.82	3,885.52	3,812.31	73.20	53.077	
8,650.00	7,523.80	7,377.67	7,285.55	73.79	29.26	96.59	1,591.65	-724.73	3,901.19	3,828.02	73.17	53.319	
8,700.00	7,547.77	7,408.00	7,312.55	73.70	29.26	94.06	1,577.92	-726.28	3,915.35	3,842.22	73.13	53.540	
8,750.00	7,568.45	8,750.00	7,424.19	73.58	28.39	92.84	1,501.16	-731.27	3,927.61	3,855.73	71.88	54.641	
8,800.00	7,585.69	8,800.00	7,456.77	73.43	28.38	91.37	1,473.59	-732.05	3,937.02	3,865.29	71.73	54.888	
8,850.00	7,599.35	7,586.00	7,456.15	73.26	29.15	89.97	1,474.12	-732.04	3,944.75	3,872.08	72.67	54.286	
8,900.00	7,609.33	7,624.63	7,482.30	73.07	29.10	89.24	1,445.71	-732.54	3,950.20	3,877.67	72.53	54.460	
8,950.00	7,615.55	7,635.14	7,489.07	72.87	29.09	88.65	1,437.67	-732.86	3,954.40	3,881.81	72.59	54.479	
9,000.00	7,617.97	7,675.00	7,513.28	72.65	29.03	88.66	1,406.08	-734.82	3,957.36	3,884.89	72.47	54.605	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,006.60	7,618.00	7,675.00	7,513.28	72.62	29.03	88.64	1,406.08	-734.82	3,957.53	3,885.04	72.49	54.592	
9,100.00	7,618.00	7,675.00	7,513.28	72.22	29.03	88.64	1,406.08	-734.82	3,960.86	3,888.06	72.80	54.408	
9,200.00	7,618.00	8,149.17	7,689.40	71.80	28.79	91.19	970.32	-736.05	3,958.69	3,888.59	70.10	56.472	
9,300.00	7,618.00	8,233.85	7,700.29	71.41	28.91	91.35	886.42	-733.18	3,955.21	3,885.12	70.09	56.430	
9,400.00	7,618.00	8,440.41	7,698.97	71.04	29.55	91.34	680.14	-724.79	3,951.08	3,881.27	69.81	56.597	
9,500.00	7,618.00	8,523.39	7,698.39	70.68	29.94	91.33	597.30	-719.98	3,944.99	3,874.84	70.15	56.236	
9,600.00	7,618.00	8,566.00	7,698.30	70.35	30.16	91.33	554.74	-717.91	3,939.97	3,869.36	70.61	55.800	
9,700.00	7,618.00	8,620.28	7,698.58	70.04	30.49	91.33	500.50	-715.97	3,936.22	3,865.08	71.14	55.330	
9,800.00	7,618.00	8,681.62	7,699.68	69.75	30.89	91.35	439.18	-714.80	3,933.89	3,862.15	71.74	54.833	
9,900.00	7,618.00	8,744.00	7,701.37	69.47	31.32	91.38	376.83	-713.59	3,931.93	3,859.51	72.42	54.291	
10,000.00	7,618.00	8,807.05	7,703.55	69.22	31.80	91.41	313.83	-712.94	3,930.91	3,857.72	73.20	53.704	
10,030.58	7,618.00	8,833.00	7,704.58	69.15	32.00	91.42	287.90	-713.10	3,931.00	3,857.53	73.47	53.502	
10,100.00	7,618.00	8,833.00	7,704.58	68.99	32.00	91.42	287.90	-713.10	3,931.62	3,857.74	73.87	53.222	
10,200.00	7,618.00	8,897.22	7,706.79	68.78	32.54	91.45	223.74	-714.39	3,933.54	3,858.78	74.76	52.618	
10,300.00	7,618.00	8,968.77	7,708.57	68.59	33.15	91.48	152.24	-716.92	3,936.74	3,860.99	75.74	51.975	
10,400.00	7,618.00	9,152.46	7,711.82	68.42	34.89	91.52	-31.33	-722.03	3,939.35	3,861.75	77.61	50.761	
10,500.00	7,618.00	9,297.80	7,713.54	68.28	36.42	91.55	-176.66	-723.36	3,939.92	3,860.42	79.50	49.561	
10,600.00	7,618.00	9,417.98	7,712.48	68.16	37.77	91.53	-296.82	-723.78	3,939.93	3,858.58	81.35	48.433	
10,700.00	7,618.00	9,545.00	7,709.56	68.06	39.27	91.49	-423.80	-722.81	3,938.65	3,855.23	83.42	47.213	
10,800.00	7,618.00	9,604.50	7,708.20	67.99	40.00	91.47	-483.28	-722.41	3,937.78	3,852.95	84.83	46.418	
10,803.10	7,618.00	9,605.81	7,708.17	67.99	40.01	91.47	-484.59	-722.41	3,937.78	3,852.91	84.87	46.397	
10,900.00	7,618.00	9,690.79	7,706.58	67.95	41.07	91.45	-569.56	-723.24	3,938.30	3,851.68	86.62	45.467	
11,000.00	7,618.00	9,842.05	7,704.44	67.95	43.03	91.42	-720.80	-723.25	3,937.92	3,848.55	89.37	44.062	
11,100.00	7,618.00	9,901.00	7,703.92	67.97	43.81	91.41	-779.75	-722.69	3,936.96	3,846.01	90.95	43.289	
11,129.12	7,618.00	9,931.87	7,703.69	67.99	44.22	91.41	-810.61	-722.56	3,936.71	3,845.09	91.62	42.968	
11,129.12	7,618.00	9,931.87	7,703.69	67.99	44.22	91.41	-810.61	-722.56	3,936.71	3,845.09	91.62	42.968	
11,200.00	7,618.00	9,955.26	7,703.52	68.04	44.54	91.40	-834.00	-722.78	3,937.14	3,844.66	92.48	42.571	
11,300.00	7,618.00	9,990.00	7,703.26	68.15	45.00	91.40	-868.73	-723.64	3,939.20	3,845.46	93.74	42.024	
11,400.00	7,618.00	10,126.07	7,702.19	68.30	46.87	91.38	-1,004.74	-727.64	3,941.85	3,845.24	96.61	40.801	
11,500.00	7,618.00	11,500.00	7,707.77	68.50	66.65	91.46	-1,204.12	-729.22	3,942.20	3,824.53	117.67	33.502	
11,600.00	7,618.00	10,480.90	7,712.67	68.75	51.98	91.54	-1,359.37	-726.74	3,940.03	3,835.77	104.27	37.788	
11,700.00	7,618.00	10,582.05	7,713.39	69.06	53.48	91.55	-1,460.50	-725.35	3,938.34	3,831.44	106.90	36.842	
11,800.00	7,618.00	10,654.41	7,713.38	69.44	54.57	91.55	-1,532.85	-724.16	3,936.45	3,827.41	109.04	36.102	
11,900.00	7,618.00	10,704.21	7,713.49	69.88	55.32	91.55	-1,582.65	-724.00	3,935.78	3,825.02	110.76	35.533	
12,000.00	7,618.00	10,850.33	7,714.59	70.39	57.54	91.57	-1,728.77	-723.86	3,935.47	3,821.08	114.39	34.405	
12,100.00	7,618.00	10,925.49	7,715.77	70.97	58.70	91.58	-1,803.91	-723.14	3,934.30	3,817.63	116.67	33.721	
12,144.26	7,618.00	10,947.57	7,716.02	71.25	59.04	91.59	-1,825.99	-723.14	3,934.17	3,816.71	117.47	33.492	
12,200.00	7,618.00	10,984.18	7,716.32	71.63	59.60	91.59	-1,862.60	-723.40	3,934.36	3,815.72	118.64	33.163	
12,300.00	7,618.00	11,086.88	7,717.18	72.35	61.20	91.60	-1,965.30	-723.87	3,934.50	3,812.98	121.52	32.376	
12,400.00	7,618.00	11,149.00	7,716.73	73.15	62.16	91.60	-2,027.40	-724.77	3,935.51	3,811.93	123.58	31.845	
12,500.00	7,618.00	11,263.60	7,715.13	74.01	63.96	91.57	-2,141.98	-726.32	3,936.46	3,809.69	126.77	31.053	
12,600.00	7,618.00	11,327.00	7,714.63	74.93	64.96	91.57	-2,205.36	-727.68	3,938.12	3,809.24	128.88	30.556	
12,700.00	7,618.00	11,468.56	7,714.50	75.91	67.20	91.56	-2,346.89	-730.59	3,939.96	3,807.23	132.73	29.684	
12,800.00	7,618.00	11,541.96	7,715.04	76.95	68.36	91.57	-2,420.28	-731.43	3,940.89	3,805.78	135.11	29.167	
12,900.00	7,618.00	11,595.00	7,715.52	78.04	69.21	91.58	-2,473.30	-732.85	3,943.16	3,806.12	137.04	28.773	
13,000.00	7,618.00	11,698.84	7,717.35	79.16	70.87	91.60	-2,577.07	-736.22	3,946.12	3,805.98	140.14	28.159	
13,100.00	7,618.00	11,939.20	7,717.50	80.33	74.76	91.60	-2,817.39	-739.72	3,947.59	3,801.19	146.39	26.965	
13,200.00	7,618.00	12,021.13	7,716.45	81.54	76.10	91.59	-2,899.31	-739.35	3,946.79	3,797.72	149.06	26.477	
13,274.08	7,618.00	12,077.37	7,715.08	82.46	77.02	91.57	-2,955.53	-739.46	3,946.63	3,795.69	150.94	26.147	
13,300.00	7,618.00	12,097.57	7,714.65	82.78	77.35	91.56	-2,975.73	-739.55	3,946.65	3,795.04	151.61	26.031	
13,400.00	7,618.00	12,205.59	7,714.18	84.05	79.12	91.56	-3,083.74	-740.13	3,946.84	3,791.93	154.92	25.477	
13,500.00	7,618.00	12,420.33	7,719.43	85.35	82.69	91.63	-3,298.37	-736.96	3,944.82	3,784.05	160.77	24.537	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,600.00	7,618.00	12,486.00	7,721.19	86.67	83.78	91.66	-3,364.01	-735.66	3,942.49	3,779.33	163.15	24.164	
13,700.00	7,618.00	12,543.16	7,722.71	88.02	84.74	91.68	-3,421.15	-735.10	3,941.11	3,775.78	165.33	23.838	
13,800.00	7,618.00	12,606.00	7,724.10	89.38	85.78	91.70	-3,483.97	-734.87	3,940.51	3,772.88	167.63	23.507	
13,805.42	7,618.00	12,608.92	7,724.15	89.46	85.83	91.70	-3,486.88	-734.88	3,940.51	3,772.77	167.74	23.491	
13,900.00	7,618.00	12,664.00	7,724.70	90.77	86.75	91.71	-3,541.96	-735.38	3,941.04	3,771.24	169.80	23.210	
14,000.00	7,618.00	12,880.44	7,726.09	92.17	90.37	91.73	-3,758.37	-733.97	3,939.49	3,763.64	175.85	22.402	
14,100.00	7,618.00	12,931.00	7,727.11	93.59	91.22	91.75	-3,808.91	-733.70	3,938.43	3,760.54	177.89	22.140	
14,127.44	7,618.00	12,931.00	7,727.11	93.98	91.22	91.75	-3,808.91	-733.70	3,938.33	3,760.23	178.10	22.113	
14,200.00	7,618.00	12,961.61	7,727.83	95.02	91.73	91.76	-3,839.51	-734.00	3,938.77	3,759.37	179.40	21.955	
14,300.00	7,618.00	13,020.00	7,729.05	96.47	92.71	91.78	-3,897.88	-735.19	3,940.46	3,758.88	181.58	21.701	
14,400.00	7,618.00	13,092.34	7,730.18	97.93	93.92	91.79	-3,970.17	-737.31	3,943.06	3,758.95	184.11	21.417	
14,500.00	7,618.00	13,195.45	7,731.02	99.41	95.64	91.80	-4,073.24	-740.56	3,945.89	3,758.46	187.44	21.052	
14,600.00	7,618.00	13,377.00	7,731.79	100.89	98.69	91.81	-4,254.75	-743.37	3,946.72	3,753.93	192.80	20.471	
14,700.00	7,618.00	13,440.94	7,732.62	102.38	99.77	91.82	-4,318.68	-743.96	3,947.53	3,752.38	195.15	20.228	
14,800.00	7,618.00	13,522.00	7,734.29	103.89	101.14	91.85	-4,399.70	-745.92	3,949.61	3,751.67	197.94	19.954	
14,900.00	7,618.00	13,691.78	7,731.52	105.40	104.01	91.81	-4,569.42	-748.81	3,951.01	3,747.98	203.03	19.461	
15,000.00	7,618.00	13,858.00	7,728.33	106.92	106.84	91.76	-4,735.60	-747.53	3,949.42	3,741.41	208.01	18.987	
15,100.00	7,618.00	13,911.00	7,727.44	108.45	107.74	91.75	-4,788.59	-747.47	3,948.78	3,738.65	210.13	18.792	
15,107.16	7,618.00	13,911.00	7,727.44	108.56	107.74	91.75	-4,788.59	-747.47	3,948.78	3,738.59	210.19	18.787	
15,200.00	7,618.00	13,947.49	7,726.81	109.99	108.36	91.74	-4,825.07	-747.94	3,949.51	3,737.71	211.80	18.648	
15,300.00	7,618.00	14,000.00	7,725.83	111.54	109.25	91.72	-4,877.56	-749.29	3,951.62	3,737.78	213.84	18.479	
15,400.00	7,618.00	14,153.97	7,723.15	113.09	111.86	91.68	-5,031.45	-753.21	3,953.88	3,735.29	218.59	18.088	
15,500.00	7,618.00	14,312.40	7,721.64	114.65	114.56	91.66	-5,189.86	-754.73	3,954.51	3,731.06	223.46	17.697	
15,600.00	7,618.00	15,600.00	7,720.45	116.21	136.65	91.64	-5,326.25	-753.95	3,953.48	3,706.00	247.48	15.975	
15,687.12	7,618.00	14,491.08	7,720.57	117.58	117.63	91.65	-5,368.53	-753.80	3,952.94	3,723.43	229.50	17.224	
15,700.00	7,618.00	14,496.81	7,720.61	117.78	117.72	91.65	-5,374.26	-753.82	3,952.95	3,723.20	229.75	17.206	
15,800.00	7,618.00	14,552.91	7,721.38	119.36	118.68	91.66	-5,430.35	-754.53	3,953.81	3,721.87	231.94	17.047	
15,900.00	7,618.00	14,657.66	7,723.03	120.94	120.48	91.68	-5,535.08	-755.97	3,954.88	3,719.45	235.43	16.799	
16,000.00	7,618.00	14,750.96	7,726.05	122.53	122.08	91.72	-5,628.31	-757.52	3,956.30	3,717.67	238.62	16.580	
16,100.00	7,618.00	14,831.14	7,729.16	124.12	123.45	91.77	-5,708.43	-758.70	3,957.62	3,716.16	241.46	16.391	
16,200.00	7,618.00	14,892.00	7,731.86	125.72	124.49	91.81	-5,769.20	-760.49	3,960.20	3,716.45	243.75	16.247	
16,300.00	7,618.00	15,010.37	7,737.61	127.32	126.52	91.89	-5,887.37	-764.28	3,963.30	3,715.66	247.64	16.004	
16,400.00	7,618.00	15,143.96	7,744.06	128.93	128.81	91.98	-6,020.78	-766.90	3,965.03	3,713.07	251.96	15.737	
16,500.00	7,618.00	15,200.60	7,746.56	130.54	129.78	92.02	-6,077.35	-768.09	3,967.01	3,712.87	254.14	15.609	
16,600.00	7,618.00	15,252.25	7,748.42	132.15	130.67	92.04	-6,128.94	-769.91	3,970.28	3,714.12	256.16	15.499	
16,700.00	7,618.00	15,375.30	7,752.55	133.77	132.77	92.10	-6,251.84	-774.08	3,973.37	3,713.17	260.20	15.270	
16,800.00	7,618.00	15,442.19	7,754.12	135.39	133.92	92.12	-6,318.66	-776.75	3,977.09	3,714.45	262.64	15.143	
16,900.00	7,618.00	15,540.10	7,755.68	137.01	135.59	92.14	-6,416.46	-781.21	3,981.36	3,715.39	265.96	14.970	
17,000.00	7,618.00	15,753.82	7,757.77	138.64	139.26	92.17	-6,630.06	-787.75	3,984.16	3,711.60	272.56	14.617	
17,100.00	7,618.00	15,909.59	7,759.11	140.27	141.95	92.19	-6,785.81	-788.92	3,984.53	3,707.04	277.48	14.360	
17,200.00	7,618.00	16,189.16	7,751.12	141.91	146.81	92.08	-7,065.20	-784.80	3,983.41	3,697.98	285.44	13.955	
17,300.00	7,618.00	16,255.93	7,749.93	143.55	147.97	92.06	-7,131.90	-781.90	3,978.84	3,690.78	288.06	13.813	
17,400.00	7,618.00	16,312.00	7,749.86	145.19	148.95	92.06	-7,187.95	-780.67	3,976.01	3,685.61	290.40	13.692	
17,500.00	7,618.00	16,312.00	7,749.86	146.83	148.95	92.06	-7,187.95	-780.67	3,974.59	3,683.37	291.22	13.648	
17,537.61	7,618.00	16,338.87	7,750.09	147.45	149.42	92.06	-7,214.82	-780.60	3,974.43	3,682.21	292.22	13.601	
17,600.00	7,618.00	16,359.62	7,750.34	148.48	149.78	92.07	-7,235.57	-780.79	3,974.82	3,681.61	293.21	13.556	
17,700.00	7,618.00	16,401.00	7,751.02	150.13	150.49	92.08	-7,276.93	-781.82	3,976.84	3,681.86	294.98	13.482	
17,800.00	7,618.00	16,495.79	7,753.07	151.78	152.13	92.10	-7,371.65	-784.92	3,979.83	3,681.58	298.25	13.344	
17,900.00	7,618.00	16,644.61	7,757.88	153.43	154.70	92.17	-7,520.34	-788.44	3,981.97	3,678.91	303.07	13.139	
18,000.00	7,618.00	16,708.22	7,760.41	155.09	155.80	92.21	-7,583.89	-789.65	3,983.79	3,678.33	305.46	13.042	
18,100.00	7,618.00	16,757.00	7,762.30	156.75	156.64	92.23	-7,632.61	-791.27	3,986.90	3,679.50	307.40	12.970	
18,200.00	7,618.00	16,856.78	7,765.97	158.41	158.36	92.28	-7,732.24	-795.23	3,990.68	3,679.86	310.82	12.839	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,300.00	7,618.00	16,967.71	7,771.20	160.07	160.28	92.36	-7,842.98	-799.31	3,994.19	3,679.62	314.57	12.697	
18,400.00	7,618.00	17,059.04	7,773.84	161.74	161.85	92.39	-7,934.20	-802.76	3,997.76	3,680.01	317.74	12.582	
18,500.00	7,618.00	17,162.94	7,775.37	163.41	163.65	92.41	-8,038.00	-806.93	4,001.50	3,680.21	321.29	12.455	
18,600.00	7,618.00	17,305.00	7,777.31	165.08	166.10	92.44	-8,179.96	-811.73	4,004.61	3,678.66	325.95	12.286	
18,700.00	7,618.00	17,428.24	7,780.06	166.75	168.24	92.48	-8,303.13	-814.84	4,006.89	3,676.83	330.06	12.140	
18,711.30	7,618.00	17,442.70	7,780.44	166.94	168.49	92.48	-8,317.59	-815.15	4,007.11	3,676.57	330.54	12.123	SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	318.00	317.99	0.00	0.00	-52.20	785.35	-1,012.42	1,322.87				
100.00	100.00	318.00	317.99	0.13	0.00	-52.20	785.35	-1,012.42	1,301.61	1,301.19	0.43	3,056.820	
200.00	200.00	318.00	317.99	0.49	0.00	-52.20	785.35	-1,012.42	1,287.79	1,287.24	0.54	2,374.441	
300.00	300.00	318.00	317.99	0.85	0.00	-52.20	785.35	-1,012.42	1,281.64	1,280.78	0.85	1,502.559	
329.03	329.03	318.00	317.99	0.96	0.00	-52.20	785.35	-1,012.42	1,281.31	1,280.35	0.96	1,340.797	
400.00	400.00	387.62	387.60	1.21	0.13	-52.24	784.70	-1,013.08	1,281.44	1,280.10	1.34	959.820	
500.00	500.00	490.30	490.28	1.57	0.31	-52.30	783.72	-1,013.84	1,281.44	1,279.56	1.88	682.359	
600.00	600.00	592.98	592.95	1.93	0.49	-52.35	782.70	-1,014.36	1,281.24	1,278.82	2.42	529.241	
623.27	623.27	616.87	616.84	2.01	0.54	-52.36	782.46	-1,014.45	1,281.16	1,278.61	2.55	502.963	CC
700.00	700.00	678.52	678.48	2.29	0.80	-52.31	783.51	-1,014.08	1,281.54	1,278.46	3.08	415.470	ES
800.00	800.00	767.38	767.24	2.64	1.11	-52.13	787.41	-1,012.46	1,282.80	1,279.05	3.75	342.240	
900.00	900.00	858.52	858.02	3.00	1.44	-51.78	794.69	-1,009.13	1,284.84	1,280.41	4.44	289.664	
1,000.00	999.98	945.82	944.65	3.36	1.77	-108.50	804.42	-1,004.60	1,288.30	1,283.18	5.12	251.603	
1,100.00	1,099.84	1,032.71	1,030.64	3.71	2.11	-108.05	815.95	-999.81	1,293.99	1,288.17	5.82	222.400	
1,200.00	1,199.45	1,128.28	1,124.92	4.07	2.51	-107.60	830.38	-993.80	1,301.37	1,294.80	6.57	198.076	
1,300.00	1,298.70	1,223.62	1,218.88	4.44	2.92	-107.24	845.33	-987.71	1,310.12	1,302.78	7.34	178.514	
1,400.00	1,397.47	1,337.27	1,330.93	4.82	3.42	-107.01	862.96	-980.62	1,319.97	1,311.77	8.21	160.839	
1,500.00	1,495.62	1,440.53	1,432.69	5.22	3.87	-106.90	878.62	-972.66	1,329.44	1,320.39	9.05	146.845	
1,600.00	1,593.06	1,523.61	1,514.46	5.65	4.24	-106.84	891.88	-966.46	1,340.63	1,330.79	9.84	136.268	
1,700.00	1,689.64	1,635.18	1,624.10	6.11	4.75	-106.94	910.71	-957.98	1,353.37	1,342.58	10.79	125.423	
1,800.00	1,785.27	1,747.69	1,734.88	6.61	5.26	-107.23	927.99	-948.59	1,365.57	1,353.79	11.78	115.952	
1,900.00	1,879.82	1,828.51	1,814.54	7.15	5.62	-107.47	940.17	-942.43	1,379.33	1,366.68	12.65	109.047	
2,000.00	1,973.17	1,908.83	1,893.72	7.73	5.97	-107.78	952.66	-937.38	1,395.63	1,382.07	13.55	102.965	
2,100.00	2,065.21	2,050.57	2,033.44	8.37	6.61	-108.71	974.27	-927.23	1,412.54	1,397.74	14.80	95.446	
2,200.00	2,155.84	2,150.44	2,131.74	9.07	7.06	-109.35	988.90	-917.52	1,428.45	1,412.55	15.90	89.850	
2,300.00	2,244.94	2,226.48	2,206.53	9.82	7.41	-109.79	1,000.72	-910.45	1,446.75	1,429.82	16.93	85.456	
2,400.00	2,332.39	2,300.53	2,279.35	10.64	7.75	-110.24	1,012.71	-904.51	1,468.04	1,450.05	17.99	81.600	
2,500.00	2,418.11	2,375.08	2,352.67	11.53	8.09	-110.72	1,025.22	-899.36	1,492.26	1,473.17	19.09	78.165	
2,558.91	2,467.74	2,418.95	2,395.82	12.08	8.29	-111.01	1,032.65	-896.74	1,507.88	1,488.12	19.75	76.331	
2,600.00	2,502.13	2,449.57	2,425.96	12.47	8.43	-111.44	1,037.86	-895.10	1,519.27	1,499.05	20.22	75.135	
2,700.00	2,585.83	2,541.33	2,516.30	13.45	8.84	-112.71	1,053.19	-890.52	1,547.71	1,526.26	21.45	72.158	
2,800.00	2,669.53	2,624.18	2,598.04	14.44	9.21	-113.85	1,066.24	-886.84	1,576.89	1,554.27	22.62	69.725	
2,900.00	2,753.22	2,722.04	2,694.81	15.46	9.63	-115.20	1,080.36	-883.41	1,607.03	1,583.18	23.85	67.380	
3,000.00	2,836.92	2,857.20	2,828.15	16.48	10.23	-116.92	1,100.74	-875.06	1,635.92	1,610.61	25.30	64.656	
3,100.00	2,920.62	2,960.31	2,929.91	17.52	10.68	-118.18	1,115.61	-867.62	1,664.49	1,637.92	26.57	62.651	
3,200.00	3,004.32	3,068.91	3,037.42	18.56	11.14	-119.54	1,128.36	-859.15	1,692.11	1,664.29	27.82	60.816	
3,300.00	3,088.01	3,175.54	3,143.16	19.61	11.58	-120.88	1,139.36	-850.86	1,720.03	1,690.99	29.04	59.229	
3,400.00	3,171.71	3,280.75	3,247.17	20.67	12.03	-122.09	1,151.63	-840.85	1,747.59	1,717.33	30.26	57.755	
3,500.00	3,255.41	3,380.86	3,345.66	21.73	12.48	-123.12	1,165.57	-829.64	1,775.00	1,743.52	31.48	56.390	
3,600.00	3,339.10	3,454.00	3,417.58	22.80	12.82	-123.84	1,176.08	-821.47	1,803.09	1,770.54	32.54	55.403	
3,700.00	3,422.80	3,523.08	3,485.71	23.87	13.12	-124.54	1,185.35	-814.80	1,832.66	1,799.11	33.56	54.617	
3,800.00	3,506.50	3,607.02	3,568.72	24.94	13.49	-125.40	1,195.80	-808.00	1,863.71	1,829.09	34.62	53.835	
3,900.00	3,590.20	3,753.00	3,712.55	26.02	14.14	-126.77	1,215.69	-793.10	1,893.63	1,857.60	36.04	52.549	
4,000.00	3,673.89	3,828.17	3,786.53	27.10	14.48	-127.44	1,225.92	-784.66	1,923.16	1,886.11	37.05	51.901	
4,100.00	3,757.59	3,888.92	3,846.57	28.18	14.74	-128.01	1,233.24	-778.94	1,954.29	1,916.33	37.96	51.489	
4,200.00	3,841.29	3,956.80	3,913.84	29.26	15.03	-128.67	1,240.74	-773.70	1,987.07	1,948.21	38.86	51.133	
4,300.00	3,924.99	4,028.52	3,984.87	30.35	15.33	-129.33	1,249.21	-768.76	2,021.18	1,981.40	39.78	50.810	
4,400.00	4,008.68	4,097.81	4,053.20	31.44	15.64	-129.88	1,259.69	-764.02	2,056.40	2,015.70	40.69	50.534	
4,500.00	4,092.38	4,166.00	4,120.40	32.52	15.94	-130.41	1,270.64	-760.24	2,093.15	2,051.55	41.60	50.320	
4,600.00	4,176.08	4,286.81	4,239.51	33.62	16.48	-131.32	1,289.42	-752.90	2,129.65	2,086.81	42.85	49.705	
4,700.00	4,259.77	4,372.65	4,324.44	34.71	16.85	-132.00	1,300.82	-747.76	2,166.14	2,122.32	43.82	49.428	
4,800.00	4,343.47	4,482.81	4,433.38	35.80	17.33	-132.83	1,315.37	-740.34	2,202.23	2,157.28	44.95	48.996	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,427.17	4,555.59	4,505.24	36.89	17.65	-133.35	1,325.76	-735.38	2,238.72	2,192.88	45.84	48.842	
5,000.00	4,510.87	4,666.43	4,614.23	37.99	18.16	-134.04	1,344.12	-727.12	2,275.17	2,228.16	47.01	48.393	
5,100.00	4,594.56	4,741.74	4,688.32	39.08	18.50	-134.50	1,356.41	-721.55	2,311.88	2,263.94	47.94	48.229	
5,200.00	4,678.26	4,807.25	4,752.93	40.18	18.80	-134.91	1,366.42	-717.40	2,349.59	2,300.83	48.76	48.187	
5,300.00	4,761.96	5,300.00	4,933.00	41.28	21.07	-136.00	1,394.63	-702.49	2,385.57	2,333.77	51.80	46.054	
5,400.00	4,845.66	5,063.75	5,005.39	42.37	19.96	-136.42	1,405.66	-695.21	2,420.53	2,369.24	51.28	47.198	
5,500.00	4,929.35	5,126.37	5,067.24	43.47	20.24	-136.80	1,414.10	-690.16	2,457.03	2,404.97	52.06	47.193	
5,600.00	5,013.05	5,221.24	5,161.24	44.57	20.64	-137.41	1,424.94	-683.35	2,494.41	2,441.39	53.01	47.052	
5,700.00	5,096.75	5,430.33	5,367.47	45.67	21.56	-138.61	1,451.40	-661.64	2,528.87	2,474.18	54.68	46.248	
5,800.00	5,180.45	5,497.15	5,433.18	46.77	21.87	-138.97	1,460.42	-653.49	2,562.29	2,506.79	55.50	46.170	
5,900.00	5,264.14	5,552.34	5,487.49	47.87	22.12	-139.25	1,468.13	-647.44	2,597.04	2,540.81	56.23	46.188	
6,000.00	5,347.84	5,600.79	5,535.20	48.97	22.34	-139.49	1,475.15	-642.89	2,633.38	2,576.48	56.90	46.281	
6,100.00	5,431.54	5,653.37	5,587.06	50.07	22.57	-139.75	1,482.88	-638.78	2,671.29	2,613.71	57.58	46.394	
6,200.00	5,515.23	5,712.00	5,645.05	51.17	22.83	-140.05	1,490.57	-635.02	2,710.52	2,652.25	58.27	46.515	
6,300.00	5,598.93	5,773.63	5,706.14	52.27	23.08	-140.38	1,498.08	-631.76	2,750.89	2,691.93	58.96	46.656	
6,400.00	5,682.63	5,963.87	5,894.31	53.38	23.90	-141.30	1,523.12	-619.55	2,790.77	2,730.20	60.57	46.073	
6,500.00	5,766.33	6,083.00	6,011.51	54.48	24.45	-141.80	1,541.45	-608.59	2,827.99	2,766.27	61.72	45.817	
6,600.00	5,850.02	6,137.86	6,065.35	55.58	24.71	-142.00	1,550.76	-603.78	2,865.68	2,803.24	62.43	45.899	
6,700.00	5,933.72	6,189.77	6,116.29	56.68	24.95	-142.19	1,559.88	-599.72	2,904.47	2,841.36	63.11	46.023	
6,800.00	6,017.42	6,246.00	6,171.66	57.79	25.21	-142.40	1,569.05	-596.27	2,944.70	2,880.91	63.79	46.159	
6,900.00	6,101.12	6,290.98	6,216.09	58.89	25.40	-142.58	1,575.74	-594.12	2,986.19	2,921.83	64.36	46.400	
7,000.00	6,184.81	6,459.00	6,382.44	59.99	26.11	-143.29	1,597.70	-585.72	3,028.24	2,962.42	65.82	46.008	
7,100.00	6,268.51	6,624.41	6,545.79	61.10	26.84	-143.96	1,619.57	-571.71	3,066.55	2,999.31	67.24	45.607	
7,200.00	6,352.21	6,692.00	6,612.37	62.20	27.14	-144.20	1,629.59	-565.73	3,104.78	3,036.78	68.00	45.662	
7,300.00	6,435.90	6,734.00	6,653.75	63.31	27.33	-144.34	1,635.97	-562.49	3,144.10	3,075.54	68.56	45.862	
7,400.00	6,519.60	7,048.00	6,964.01	64.41	28.56	-145.83	1,659.50	-532.38	3,184.42	3,113.87	70.55	45.134	
7,500.00	6,603.30	7,097.21	7,012.02	65.51	28.65	-146.25	1,652.01	-524.71	3,218.05	3,147.14	70.91	45.383	
7,600.00	6,687.00	7,138.00	7,051.53	66.62	28.73	-146.65	1,643.03	-520.15	3,254.75	3,183.54	71.21	45.709	
7,700.00	6,770.69	7,138.00	7,051.53	67.72	28.73	-146.65	1,643.03	-520.15	3,293.02	3,221.56	71.46	46.081	
7,800.00	6,854.39	7,138.00	7,051.53	68.83	28.73	-146.65	1,643.03	-520.15	3,333.86	3,262.19	71.66	46.520	
7,900.00	6,938.09	7,138.00	7,051.53	69.93	28.73	-146.65	1,643.03	-520.15	3,377.16	3,305.34	71.82	47.023	
7,933.18	6,965.86	7,138.00	7,051.53	70.30	28.73	-146.65	1,643.03	-520.15	3,392.06	3,320.20	71.86	47.204	
7,950.00	6,980.00	7,138.00	7,051.53	70.49	28.73	-149.82	1,643.03	-520.15	3,399.72	3,327.84	71.88	47.298	
8,000.00	7,022.68	7,138.00	7,051.53	71.01	28.73	-160.03	1,643.03	-520.15	3,423.06	3,351.13	71.92	47.594	
8,050.00	7,066.06	7,138.00	7,051.53	71.51	28.73	-171.21	1,643.03	-520.15	3,447.04	3,375.10	71.95	47.910	
8,100.00	7,109.82	7,179.65	7,091.58	71.97	28.76	176.81	1,631.87	-517.87	3,469.66	3,397.67	71.99	48.195	
8,150.00	7,153.63	7,185.46	7,097.14	72.38	28.77	164.98	1,630.20	-517.80	3,493.83	3,421.84	71.99	48.530	
8,200.00	7,197.14	7,227.00	7,136.66	72.74	28.80	153.55	1,617.47	-519.01	3,519.35	3,447.34	72.00	48.878	
8,250.00	7,240.04	7,227.00	7,136.66	73.05	28.80	143.10	1,617.47	-519.01	3,542.93	3,470.95	71.97	49.225	
8,300.00	7,281.99	7,227.00	7,136.66	73.31	28.80	133.73	1,617.47	-519.01	3,566.21	3,494.28	71.94	49.575	
8,350.00	7,322.67	7,227.00	7,136.66	73.52	28.80	125.47	1,617.47	-519.01	3,589.05	3,517.16	71.89	49.926	
8,400.00	7,361.77	7,227.00	7,136.66	73.68	28.80	118.26	1,617.47	-519.01	3,611.25	3,539.42	71.84	50.271	
8,450.00	7,399.01	7,227.00	7,136.66	73.78	28.80	112.02	1,617.47	-519.01	3,632.68	3,560.90	71.78	50.606	
8,500.00	7,434.08	7,227.00	7,136.66	73.85	28.80	106.63	1,617.47	-519.01	3,653.19	3,581.45	71.74	50.925	
8,550.00	7,466.74	7,227.00	7,136.66	73.87	28.80	101.98	1,617.47	-519.01	3,672.62	3,600.93	71.70	51.225	
8,600.00	7,496.72	7,227.00	7,136.66	73.85	28.80	97.97	1,617.47	-519.01	3,690.87	3,619.20	71.67	51.499	
8,650.00	7,523.80	7,227.00	7,136.66	73.79	28.80	94.55	1,617.47	-519.01	3,707.79	3,636.14	71.66	51.744	
8,700.00	7,547.77	7,260.13	7,167.80	73.70	28.81	92.02	1,606.48	-521.67	3,722.66	3,650.95	71.71	51.914	
8,750.00	7,568.45	7,267.93	7,175.08	73.58	28.81	89.69	1,603.81	-522.44	3,736.31	3,664.56	71.75	52.074	
8,800.00	7,585.69	7,275.20	7,181.87	73.43	28.82	87.79	1,601.28	-523.20	3,748.31	3,676.49	71.82	52.193	
8,850.00	7,599.35	7,281.92	7,188.11	73.26	28.82	86.28	1,598.93	-523.94	3,758.59	3,686.68	71.91	52.269	
8,900.00	7,609.33	7,495.00	7,374.76	73.07	28.76	87.67	1,499.78	-543.73	3,767.32	3,695.52	71.79	52.475	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,950.00	7,615.55	7,528.41	7,401.17	72.87	28.73	87.29	1,479.41	-545.66	3,772.19	3,700.38	71.81	52.527	
9,000.00	7,617.97	7,920.14	7,603.48	72.65	28.15	89.93	1,153.99	-548.51	3,771.69	3,702.38	69.31	54.421	
9,006.60	7,618.00	7,924.40	7,604.57	72.62	28.15	89.96	1,149.88	-548.35	3,771.42	3,702.12	69.30	54.424	
9,100.00	7,618.00	7,940.00	7,608.51	72.22	28.12	90.02	1,134.80	-547.77	3,768.25	3,698.70	69.55	54.180	
9,200.00	7,618.00	7,999.38	7,622.73	71.80	28.06	90.24	1,077.16	-546.46	3,766.08	3,696.53	69.56	54.143	
9,300.00	7,618.00	8,251.00	7,662.18	71.41	28.14	90.84	829.00	-541.80	3,765.48	3,696.84	68.63	54.866	
9,400.00	7,618.00	8,344.78	7,665.85	71.04	28.38	90.90	735.40	-537.44	3,760.55	3,691.78	68.77	54.684	
9,500.00	7,618.00	8,438.68	7,667.60	70.68	28.75	90.93	641.61	-533.25	3,755.77	3,686.72	69.05	54.388	
9,600.00	7,618.00	8,536.66	7,669.29	70.35	29.26	90.95	543.74	-529.00	3,751.13	3,681.63	69.49	53.979	
9,700.00	7,618.00	8,615.93	7,670.07	70.04	29.76	90.97	464.54	-525.72	3,746.68	3,676.61	70.08	53.464	
9,800.00	7,618.00	8,684.77	7,671.01	69.75	30.25	90.98	395.75	-523.39	3,742.99	3,672.24	70.75	52.904	
9,900.00	7,618.00	8,751.18	7,672.07	69.47	30.76	91.00	329.37	-521.73	3,740.18	3,668.68	71.50	52.311	
10,000.00	7,618.00	8,820.23	7,673.13	69.22	31.33	91.01	260.33	-520.60	3,738.23	3,665.89	72.34	51.675	
10,100.00	7,618.00	8,903.04	7,673.56	68.99	32.06	91.02	177.53	-519.82	3,736.95	3,663.62	73.33	50.959	
10,200.00	7,618.00	8,995.28	7,672.50	68.78	32.93	91.00	85.29	-519.27	3,735.99	3,661.51	74.48	50.163	
10,300.00	7,618.00	9,085.12	7,671.17	68.59	33.83	90.98	-4.54	-518.93	3,735.25	3,659.52	75.73	49.326	
10,400.00	7,618.00	9,215.67	7,668.39	68.42	35.23	90.94	-135.05	-518.02	3,734.16	3,656.73	77.44	48.222	
10,500.00	7,618.00	9,327.40	7,668.35	68.28	36.49	90.94	-246.77	-516.81	3,732.76	3,653.59	79.17	47.149	
10,600.00	7,618.00	9,444.42	7,668.70	68.16	37.88	90.95	-363.78	-514.81	3,730.69	3,649.59	81.10	45.999	
10,700.00	7,618.00	9,563.10	7,668.71	68.06	39.35	90.95	-482.43	-512.38	3,728.32	3,645.11	83.20	44.809	
10,800.00	7,618.00	9,655.99	7,668.82	67.99	40.54	90.95	-575.29	-509.94	3,725.38	3,640.28	85.10	43.777	
10,900.00	7,618.00	9,721.00	7,668.62	67.95	41.39	90.95	-640.29	-509.23	3,723.74	3,637.06	86.68	42.960	
10,983.69	7,618.00	9,739.99	7,668.53	67.95	41.64	90.95	-659.28	-509.28	3,723.27	3,635.74	87.53	42.536	
11,000.00	7,618.00	9,747.78	7,668.50	67.95	41.74	90.95	-667.07	-509.33	3,723.32	3,635.57	87.75	42.430	
11,100.00	7,618.00	9,810.00	7,668.45	67.97	42.56	90.95	-729.28	-510.36	3,724.49	3,635.14	89.34	41.688	
11,200.00	7,618.00	9,859.01	7,667.96	68.04	43.22	90.94	-778.26	-511.76	3,726.79	3,636.03	90.76	41.061	
11,300.00	7,618.00	9,957.28	7,664.02	68.15	44.55	90.88	-876.39	-515.14	3,729.82	3,636.86	92.96	40.124	
11,400.00	7,618.00	10,189.91	7,651.65	68.30	47.83	90.69	-1,108.66	-517.97	3,730.29	3,632.82	97.46	38.274	
11,500.00	7,618.00	10,339.90	7,644.82	68.50	50.02	90.58	-1,258.49	-516.69	3,729.11	3,628.31	100.80	36.994	
11,600.00	7,618.00	10,458.07	7,639.19	68.75	51.78	90.50	-1,376.50	-514.44	3,726.82	3,623.14	103.68	35.944	
11,700.00	7,618.00	10,548.95	7,634.47	69.06	53.15	90.42	-1,467.23	-512.37	3,724.18	3,618.06	106.12	35.094	
11,800.00	7,618.00	10,612.00	7,631.39	69.44	54.11	90.38	-1,530.21	-511.62	3,722.53	3,614.47	108.06	34.448	
11,900.00	7,618.00	10,669.95	7,628.67	69.88	54.99	90.33	-1,588.10	-511.54	3,721.93	3,612.02	109.92	33.861	
11,919.02	7,618.00	10,683.11	7,628.05	69.97	55.19	90.32	-1,601.23	-511.57	3,721.92	3,611.60	110.32	33.739	
12,000.00	7,618.00	10,744.99	7,625.03	70.39	56.14	90.28	-1,663.04	-511.98	3,722.15	3,610.03	112.12	33.197	
12,100.00	7,618.00	10,830.48	7,620.88	70.97	57.45	90.21	-1,748.43	-512.94	3,722.90	3,608.34	114.56	32.498	
12,200.00	7,618.00	10,938.01	7,618.21	71.63	59.11	90.17	-1,855.91	-514.28	3,723.81	3,606.31	117.50	31.693	
12,300.00	7,618.00	11,035.68	7,615.47	72.35	60.63	90.13	-1,953.53	-515.25	3,724.46	3,604.19	120.27	30.968	
12,400.00	7,618.00	11,164.86	7,610.48	73.15	62.66	90.05	-2,082.62	-516.29	3,724.95	3,601.20	123.75	30.101	
12,500.00	7,618.00	11,278.24	7,604.73	74.01	64.46	89.97	-2,195.85	-516.39	3,724.68	3,597.75	126.93	29.344	
12,600.00	7,618.00	11,411.88	7,597.98	74.93	66.60	89.86	-2,329.31	-515.96	3,724.08	3,593.48	130.60	28.515	
12,700.00	7,618.00	11,546.41	7,593.57	75.91	68.77	89.79	-2,463.76	-514.07	3,722.35	3,588.00	134.35	27.706	
12,800.00	7,618.00	11,679.79	7,587.94	76.95	70.94	89.71	-2,596.98	-510.98	3,719.71	3,581.60	138.11	26.933	
12,900.00	7,618.00	11,774.60	7,583.96	78.04	72.50	89.64	-2,691.66	-508.41	3,716.68	3,575.65	141.03	26.353	
13,000.00	7,618.00	11,840.14	7,582.80	79.16	73.57	89.63	-2,757.18	-507.02	3,714.22	3,570.91	143.31	25.917	
13,100.00	7,618.00	11,963.20	7,582.96	80.33	75.59	89.63	-2,880.22	-504.80	3,712.12	3,565.17	146.95	25.262	
13,200.00	7,618.00	12,064.85	7,582.11	81.54	77.28	89.62	-2,981.84	-502.39	3,709.41	3,559.31	150.10	24.712	
13,300.00	7,618.00	12,127.00	7,582.44	82.78	78.31	89.62	-3,043.97	-501.03	3,707.02	3,554.68	152.34	24.334	
13,400.00	7,618.00	12,182.49	7,583.70	84.05	79.22	89.64	-3,099.44	-500.44	3,705.76	3,551.35	154.41	24.000	
13,428.42	7,618.00	12,194.98	7,584.09	84.42	79.43	89.65	-3,111.93	-500.45	3,705.69	3,550.77	154.91	23.921	
13,500.00	7,618.00	12,239.76	7,585.74	85.35	80.17	89.67	-3,156.67	-500.85	3,706.01	3,549.49	156.51	23.679	
13,600.00	7,618.00	12,351.90	7,589.94	86.67	82.03	89.74	-3,268.73	-501.95	3,706.64	3,546.65	160.00	23.167	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,700.00	7,618.00	12,462.74	7,593.42	88.02	83.87	89.79	-3,379.51	-502.48	3,706.76	3,543.29	163.46	22.676	
13,800.00	7,618.00	12,540.47	7,595.23	89.38	85.16	89.82	-3,457.22	-502.98	3,707.07	3,540.97	166.10	22.318	
13,900.00	7,618.00	12,647.39	7,596.68	90.77	86.94	89.84	-3,564.12	-504.17	3,707.86	3,538.38	169.48	21.877	
14,000.00	7,618.00	12,745.30	7,597.14	92.17	88.58	89.85	-3,662.03	-504.96	3,708.33	3,535.68	172.65	21.479	
14,100.00	7,618.00	12,834.51	7,596.75	93.59	90.07	89.84	-3,751.24	-505.88	3,709.02	3,533.43	175.59	21.123	
14,200.00	7,618.00	12,922.89	7,595.63	95.02	91.55	89.82	-3,839.60	-507.05	3,710.01	3,531.49	178.51	20.783	
14,300.00	7,618.00	13,022.96	7,593.79	96.47	93.23	89.80	-3,939.64	-508.56	3,711.18	3,529.43	181.75	20.419	
14,400.00	7,618.00	13,135.29	7,591.48	97.93	95.11	89.76	-4,051.94	-509.93	3,712.06	3,526.74	185.32	20.031	
14,500.00	7,618.00	13,243.11	7,589.10	99.41	96.93	89.72	-4,159.72	-511.23	3,712.95	3,524.17	188.78	19.668	
14,600.00	7,618.00	13,381.02	7,590.02	100.89	99.26	89.74	-4,297.63	-511.79	3,713.00	3,519.94	193.06	19.232	
14,640.08	7,618.00	13,405.70	7,590.22	101.49	99.68	89.74	-4,322.30	-511.84	3,712.93	3,518.96	193.98	19.141	
14,700.00	7,618.00	13,446.97	7,590.49	102.38	100.38	89.75	-4,363.57	-512.08	3,713.09	3,517.63	195.45	18.997	
14,800.00	7,618.00	13,497.07	7,590.70	103.89	101.22	89.75	-4,413.66	-512.78	3,714.20	3,516.79	197.40	18.815	
14,900.00	7,618.00	13,553.00	7,590.69	105.40	102.17	89.75	-4,469.57	-514.54	3,716.84	3,517.36	199.48	18.632	
15,000.00	7,618.00	13,635.67	7,590.12	106.92	103.56	89.74	-4,552.17	-517.82	3,720.41	3,518.12	202.29	18.392	
15,100.00	7,618.00	13,833.43	7,589.36	108.45	106.90	89.73	-4,749.87	-522.55	3,722.34	3,514.06	208.28	17.872	
15,200.00	7,618.00	15,200.00	7,589.70	109.99	130.24	89.73	-4,896.08	-523.36	3,722.53	3,488.82	233.72	15.927	
15,300.00	7,618.00	14,087.00	7,591.32	111.54	111.23	89.76	-5,003.41	-522.84	3,721.68	3,505.28	216.40	17.198	
15,351.08	7,618.00	14,108.79	7,591.70	112.33	111.60	89.76	-5,025.19	-522.88	3,721.60	3,504.27	217.32	17.125	
15,400.00	7,618.00	14,130.22	7,592.12	113.09	111.97	89.77	-5,046.62	-523.08	3,721.88	3,503.68	218.21	17.057	
15,500.00	7,618.00	14,176.00	7,593.23	114.65	112.75	89.79	-5,092.38	-524.04	3,723.59	3,503.55	220.04	16.922	
15,600.00	7,618.00	14,251.95	7,595.28	116.21	114.04	89.82	-5,168.26	-526.43	3,726.38	3,503.67	222.71	16.732	
15,700.00	7,618.00	14,354.36	7,598.13	117.78	115.78	89.86	-5,270.58	-529.93	3,729.45	3,503.32	226.13	16.493	
15,800.00	7,618.00	15,800.00	7,601.70	119.36	140.48	89.92	-5,415.96	-534.17	3,732.11	3,479.07	253.04	14.749	
15,900.00	7,618.00	14,653.66	7,603.85	120.94	120.90	89.95	-5,569.74	-535.38	3,732.23	3,496.57	235.66	15.838	
16,000.00	7,618.00	14,747.15	7,604.67	122.53	122.50	89.96	-5,663.22	-536.51	3,733.06	3,494.21	238.85	15.629	
16,100.00	7,618.00	14,937.71	7,606.64	124.12	125.79	89.99	-5,853.76	-535.13	3,731.68	3,486.98	244.70	15.250	
16,200.00	7,618.00	15,058.11	7,607.18	125.72	127.87	90.00	-5,974.13	-532.92	3,729.51	3,480.88	248.63	15.000	
16,300.00	7,618.00	15,157.00	7,607.36	127.32	129.59	90.01	-6,072.99	-530.50	3,726.73	3,474.72	252.01	14.788	
16,400.00	7,618.00	15,215.35	7,607.59	128.93	130.60	90.01	-6,131.33	-529.40	3,724.65	3,470.35	254.30	14.647	
16,500.00	7,618.00	15,274.54	7,608.28	130.54	131.62	90.02	-6,190.52	-529.26	3,723.99	3,467.40	256.59	14.514	
16,600.00	7,618.00	15,369.62	7,609.60	132.15	133.26	90.04	-6,285.59	-529.54	3,723.94	3,464.08	259.86	14.331	
16,700.00	7,618.00	15,506.44	7,611.49	133.77	135.63	90.07	-6,422.39	-529.28	3,723.43	3,459.15	264.28	14.089	
16,800.00	7,618.00	15,608.56	7,612.28	135.39	137.40	90.08	-6,524.51	-528.47	3,722.30	3,454.54	267.76	13.902	
16,900.00	7,618.00	15,705.49	7,612.52	137.01	139.08	90.08	-6,621.43	-527.78	3,721.25	3,450.16	271.09	13.727	
17,000.00	7,618.00	15,829.36	7,612.33	138.64	141.23	90.08	-6,745.30	-526.50	3,719.88	3,444.72	275.15	13.519	
17,100.00	7,618.00	15,976.20	7,611.30	140.27	143.78	90.07	-6,892.10	-523.65	3,717.62	3,437.79	279.83	13.286	
17,200.00	7,618.00	16,069.08	7,610.29	141.91	145.40	90.05	-6,984.94	-521.01	3,714.46	3,431.40	283.07	13.122	
17,300.00	7,618.00	16,115.84	7,609.85	143.55	146.22	90.04	-7,031.69	-520.22	3,712.41	3,427.35	285.06	13.023	
17,400.00	7,618.00	16,182.78	7,609.43	145.19	147.38	90.04	-7,098.63	-519.97	3,711.65	3,424.08	287.57	12.907	
17,500.00	7,618.00	16,274.29	7,608.70	146.83	148.97	90.03	-7,190.13	-520.04	3,711.38	3,420.62	290.76	12.764	
17,569.11	7,618.00	16,335.48	7,608.01	147.97	150.03	90.02	-7,251.33	-520.14	3,711.26	3,418.36	292.90	12.671	
17,600.00	7,618.00	16,357.77	7,607.97	148.48	150.41	90.02	-7,273.61	-520.24	3,711.30	3,417.58	293.72	12.636	
17,700.00	7,618.00	16,434.19	7,609.13	150.13	151.74	90.03	-7,350.02	-520.95	3,711.88	3,415.41	296.47	12.520	
17,800.00	7,618.00	16,521.14	7,611.67	151.78	153.25	90.07	-7,436.92	-522.18	3,712.95	3,413.42	299.53	12.396	
17,900.00	7,618.00	16,619.52	7,615.12	153.43	154.95	90.13	-7,535.23	-523.77	3,714.24	3,411.31	302.93	12.261	
18,000.00	7,618.00	16,719.59	7,618.94	155.09	156.69	90.18	-7,635.21	-525.32	3,715.46	3,409.08	306.38	12.127	
18,100.00	7,618.00	16,816.79	7,623.04	156.75	158.37	90.25	-7,732.31	-526.92	3,716.78	3,407.03	309.75	11.999	
18,200.00	7,618.00	16,933.49	7,627.51	158.41	160.40	90.32	-7,848.92	-528.67	3,717.98	3,404.28	313.69	11.852	
18,300.00	7,618.00	17,008.07	7,629.00	160.07	161.69	90.34	-7,923.47	-529.81	3,719.18	3,402.79	316.39	11.755	
18,400.00	7,618.00	17,088.86	7,630.06	161.74	163.09	90.36	-8,004.23	-531.59	3,721.05	3,401.79	319.26	11.655	
18,500.00	7,618.00	17,175.83	7,631.07	163.41	164.60	90.37	-8,091.17	-533.87	3,723.33	3,401.03	322.30	11.552	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,600.00	7,618.00	17,258.51	7,631.69	165.08	166.03	90.38	-8,173.80	-536.33	3,725.98	3,400.77	325.21	11.457	
18,700.00	7,618.00	17,349.24	7,631.96	166.75	167.59	90.38	-8,264.49	-539.46	3,729.08	3,400.72	328.36	11.357	
18,711.30	7,618.00	17,360.55	7,631.97	166.94	167.79	90.38	-8,275.79	-539.85	3,729.44	3,400.69	328.75	11.344	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-52.92	786.52	-1,040.74	1,304.56				
100.00	100.00	88.52	88.52	0.13	0.14	-52.92	786.51	-1,040.76	1,304.53	1,304.25	0.28	4,706.590	CC
200.00	200.00	187.97	187.97	0.49	0.30	-52.92	786.49	-1,040.85	1,304.59	1,303.79	0.80	1,638.878	
300.00	300.00	284.63	284.63	0.85	0.57	-52.93	786.51	-1,041.03	1,304.75	1,303.33	1.42	920.027	
400.00	400.00	379.32	379.32	1.21	0.90	-52.93	786.85	-1,041.41	1,305.29	1,303.17	2.11	617.782	ES
500.00	500.00	474.01	474.00	1.57	1.24	-52.92	787.54	-1,042.01	1,306.23	1,303.42	2.81	465.270	
600.00	600.00	568.68	568.67	1.93	1.58	-52.90	788.58	-1,042.83	1,307.58	1,304.08	3.50	373.391	
700.00	700.00	669.49	669.46	2.29	1.93	-52.89	789.79	-1,043.86	1,309.12	1,304.90	4.22	310.334	
800.00	800.00	765.90	765.86	2.64	2.28	-52.87	791.05	-1,044.88	1,310.76	1,305.84	4.92	266.415	
900.00	900.00	878.04	877.92	3.00	2.67	-52.72	794.72	-1,044.10	1,312.19	1,306.52	5.67	231.393	
1,000.00	999.98	985.34	984.88	3.36	3.05	-109.60	801.71	-1,039.29	1,313.17	1,306.77	6.40	205.105	
1,100.00	1,099.84	1,081.21	1,080.34	3.71	3.39	-109.38	809.01	-1,034.22	1,315.39	1,308.29	7.10	185.273	
1,200.00	1,199.45	1,201.77	1,200.28	4.07	3.83	-109.23	818.62	-1,026.89	1,318.41	1,310.51	7.90	166.930	
1,300.00	1,298.70	1,299.06	1,297.11	4.44	4.19	-109.24	825.69	-1,020.55	1,321.75	1,313.13	8.63	153.246	
1,400.00	1,397.47	1,402.08	1,399.33	4.82	4.59	-109.27	835.08	-1,011.87	1,325.87	1,316.48	9.40	141.117	
1,500.00	1,495.62	1,500.33	1,496.66	5.22	4.97	-109.35	845.36	-1,003.16	1,331.63	1,321.45	10.18	130.839	
1,600.00	1,593.06	1,596.46	1,591.37	5.65	5.36	-109.40	857.69	-992.34	1,338.11	1,327.13	10.99	121.779	
1,700.00	1,689.64	1,672.94	1,666.64	6.11	5.68	-109.45	868.49	-984.15	1,347.01	1,335.26	11.75	114.617	
1,800.00	1,785.27	1,753.99	1,746.42	6.61	6.03	-109.59	880.74	-976.83	1,358.94	1,346.38	12.57	108.120	
1,900.00	1,879.82	1,859.84	1,850.40	7.15	6.49	-109.89	897.72	-966.67	1,372.30	1,358.76	13.54	101.354	
2,000.00	1,973.17	1,943.59	1,932.66	7.73	6.85	-110.15	911.13	-958.45	1,386.82	1,372.37	14.45	95.961	
2,100.00	2,065.21	2,026.14	2,013.84	8.37	7.21	-110.49	924.67	-951.99	1,404.43	1,389.03	15.40	91.207	
2,200.00	2,155.84	2,179.91	2,164.73	9.07	7.90	-111.50	950.01	-936.86	1,422.25	1,405.51	16.74	84.968	
2,300.00	2,244.94	2,250.76	2,234.21	9.82	8.22	-111.84	961.47	-929.00	1,440.20	1,422.47	17.73	81.215	
2,400.00	2,332.39	2,325.65	2,307.66	10.64	8.57	-112.25	974.01	-921.50	1,461.08	1,442.29	18.78	77.779	
2,500.00	2,418.11	2,396.94	2,377.61	11.53	8.89	-112.65	986.25	-915.32	1,485.05	1,465.20	19.85	74.802	
2,558.91	2,467.74	2,437.72	2,417.64	12.08	9.08	-112.87	993.43	-912.24	1,500.70	1,480.21	20.49	73.240	
2,600.00	2,502.13	2,469.26	2,448.60	12.47	9.22	-113.28	999.04	-910.06	1,512.15	1,491.19	20.95	72.163	
2,700.00	2,585.83	2,542.57	2,520.62	13.45	9.55	-114.24	1,012.01	-905.62	1,541.13	1,519.07	22.06	69.852	
2,800.00	2,669.53	2,626.20	2,602.84	14.44	9.92	-115.32	1,026.70	-901.63	1,571.71	1,548.49	23.23	67.668	
2,900.00	2,753.22	2,751.20	2,725.48	15.46	10.49	-116.81	1,049.56	-893.64	1,601.94	1,577.30	24.64	65.001	
3,000.00	2,836.92	2,865.24	2,837.23	16.48	11.02	-118.09	1,070.12	-884.04	1,630.91	1,604.91	26.00	62.721	
3,100.00	2,920.62	3,001.44	2,971.08	17.52	11.64	-119.63	1,091.02	-870.03	1,657.47	1,630.02	27.45	60.374	
3,200.00	3,004.32	3,146.46	3,113.79	18.56	12.30	-121.25	1,110.72	-853.53	1,683.63	1,654.73	28.91	58.239	
3,300.00	3,088.01	3,215.21	3,181.48	19.61	12.61	-122.01	1,119.24	-845.05	1,708.88	1,678.91	29.97	57.013	
3,400.00	3,171.71	3,322.50	3,287.27	20.67	13.08	-123.20	1,131.88	-832.42	1,734.97	1,703.77	31.20	55.608	
3,500.00	3,255.41	3,415.01	3,378.21	21.73	13.50	-124.14	1,143.92	-820.43	1,760.94	1,728.57	32.36	54.415	
3,600.00	3,339.10	3,487.00	3,449.08	22.80	13.82	-124.87	1,153.15	-811.81	1,788.15	1,754.75	33.40	53.533	
3,700.00	3,422.80	3,572.69	3,533.41	23.87	14.21	-125.71	1,164.72	-802.02	1,816.53	1,782.02	34.50	52.649	
3,800.00	3,506.50	3,642.94	3,602.55	24.94	14.53	-126.37	1,174.48	-794.28	1,845.82	1,810.31	35.50	51.988	
3,900.00	3,590.20	3,738.97	3,697.29	26.02	14.96	-127.29	1,186.87	-784.71	1,876.19	1,839.56	36.63	51.227	
4,000.00	3,673.89	4,000.00	3,802.23	27.10	16.17	-128.21	1,202.72	-772.29	1,905.93	1,867.40	38.53	49.471	
4,100.00	3,757.59	3,910.52	3,865.79	28.18	15.75	-128.75	1,212.29	-764.97	1,936.39	1,897.63	38.76	49.954	
4,200.00	3,841.29	3,971.83	3,926.30	29.26	16.02	-129.29	1,220.46	-759.49	1,968.85	1,929.20	39.65	49.654	
4,300.00	3,924.99	4,083.47	4,036.39	30.35	16.52	-130.22	1,235.88	-749.23	2,001.55	1,960.73	40.83	49.022	
4,400.00	4,008.68	4,171.86	4,123.36	31.44	16.93	-130.91	1,249.12	-740.68	2,034.42	1,992.55	41.87	48.583	
4,500.00	4,092.38	4,265.80	4,215.77	32.52	17.36	-131.61	1,263.39	-731.50	2,067.53	2,024.58	42.95	48.137	
4,600.00	4,176.08	4,345.94	4,294.47	33.62	17.73	-132.17	1,276.19	-723.55	2,100.92	2,056.99	43.94	47.817	
4,700.00	4,259.77	4,408.00	4,355.66	34.71	18.01	-132.63	1,285.13	-718.32	2,135.63	2,090.85	44.78	47.695	
4,800.00	4,343.47	4,530.66	4,476.48	35.80	18.56	-133.50	1,303.04	-707.13	2,169.82	2,123.81	46.00	47.168	
4,900.00	4,427.17	4,595.68	4,540.58	36.89	18.86	-133.94	1,312.47	-701.58	2,204.91	2,158.07	46.84	47.069	
5,000.00	4,510.87	4,738.28	4,681.22	37.99	19.49	-134.92	1,331.91	-688.44	2,239.51	2,191.34	48.16	46.497	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	4,810.21	4,751.95	39.08	19.82	-135.37	1,342.66	-680.95	2,273.54	2,224.50	49.05	46.356	
5,200.00	4,678.26	4,954.28	4,893.75	40.18	20.48	-136.26	1,363.59	-666.63	2,308.51	2,258.13	50.38	45.824	
5,300.00	4,761.96	5,030.69	4,968.65	41.28	20.85	-136.68	1,375.79	-657.68	2,341.79	2,290.49	51.30	45.648	
5,400.00	4,845.66	5,089.72	5,026.66	42.37	21.12	-137.02	1,384.76	-651.41	2,376.20	2,324.11	52.09	45.621	
5,500.00	4,929.35	5,208.93	5,144.00	43.47	21.67	-137.69	1,402.08	-639.64	2,411.52	2,358.27	53.25	45.289	
5,600.00	5,013.05	5,270.59	5,204.63	44.57	21.95	-138.03	1,411.29	-633.20	2,446.40	2,392.37	54.03	45.278	
5,700.00	5,096.75	5,438.07	5,369.24	45.67	22.73	-138.93	1,435.13	-613.84	2,480.14	2,424.66	55.49	44.699	
5,800.00	5,180.45	5,498.70	5,428.79	46.77	23.01	-139.24	1,443.84	-606.37	2,513.62	2,457.36	56.26	44.679	
5,900.00	5,264.14	5,549.02	5,478.35	47.87	23.24	-139.51	1,450.61	-600.99	2,548.66	2,491.72	56.94	44.760	
6,000.00	5,347.84	5,658.74	5,586.51	48.97	23.73	-140.08	1,465.47	-590.12	2,584.64	2,526.64	58.00	44.564	
6,100.00	5,431.54	5,708.64	5,635.70	50.07	23.95	-140.33	1,472.33	-585.26	2,620.84	2,562.19	58.65	44.683	
6,200.00	5,515.23	5,781.23	5,707.50	51.17	24.27	-140.72	1,481.20	-579.25	2,658.44	2,599.00	59.43	44.728	
6,300.00	5,598.93	5,904.29	5,828.89	52.27	24.82	-141.31	1,497.96	-568.27	2,695.72	2,635.14	60.58	44.500	
6,400.00	5,682.63	5,964.25	5,887.66	53.38	25.10	-141.54	1,508.45	-562.65	2,732.92	2,671.60	61.32	44.568	
6,500.00	5,766.33	6,044.11	5,966.26	54.48	25.47	-141.87	1,521.18	-556.53	2,771.58	2,709.39	62.19	44.565	
6,600.00	5,850.02	6,142.60	6,063.05	55.58	25.92	-142.26	1,536.99	-547.60	2,809.07	2,745.88	63.20	44.450	
6,700.00	5,933.72	6,190.00	6,109.82	56.68	26.14	-142.46	1,543.87	-544.06	2,848.12	2,784.32	63.80	44.643	
6,800.00	6,017.42	6,317.55	6,235.66	57.79	26.70	-143.00	1,562.21	-534.24	2,887.03	2,822.05	64.98	44.428	
6,900.00	6,101.12	6,418.40	6,335.32	58.89	27.14	-143.43	1,575.37	-526.13	2,925.84	2,859.89	65.95	44.368	
7,000.00	6,184.81	6,572.49	6,487.17	59.99	27.84	-144.04	1,597.04	-511.60	2,963.53	2,896.24	67.30	44.037	
7,100.00	6,268.51	6,668.95	6,581.97	61.10	28.29	-144.40	1,611.10	-500.68	2,999.49	2,931.24	68.25	43.946	
7,200.00	6,352.21	6,724.00	6,636.04	62.20	28.54	-144.58	1,619.94	-495.31	3,036.86	2,967.93	68.93	44.058	
7,300.00	6,435.90	6,756.34	6,667.84	63.31	28.69	-144.68	1,625.25	-492.67	3,075.65	3,006.23	69.41	44.308	
7,400.00	6,519.60	6,814.00	6,724.72	64.41	28.95	-144.88	1,633.88	-488.84	3,116.00	3,045.93	70.07	44.469	
7,500.00	6,603.30	6,991.96	6,899.92	65.51	29.76	-145.47	1,661.07	-473.79	3,154.52	3,082.86	71.66	44.023	
7,600.00	6,687.00	7,438.00	7,334.75	66.62	31.49	-147.83	1,674.21	-402.28	3,183.23	3,109.49	73.74	43.167	
7,700.00	6,770.69	7,438.00	7,334.75	67.72	31.49	-147.83	1,674.21	-402.28	3,213.01	3,138.85	74.16	43.328	
7,800.00	6,854.39	7,480.14	7,374.38	68.83	31.54	-148.27	1,662.41	-394.26	3,244.43	3,170.02	74.42	43.599	
7,900.00	6,938.09	7,527.00	7,417.87	69.93	31.60	-148.80	1,646.38	-387.43	3,279.12	3,204.51	74.61	43.952	
7,933.18	6,965.86	7,527.00	7,417.87	70.30	31.60	-148.80	1,646.38	-387.43	3,290.74	3,216.04	74.70	44.050	
7,950.00	6,980.00	7,527.00	7,417.87	70.49	31.60	-151.76	1,646.38	-387.43	3,296.76	3,222.00	74.75	44.103	
8,000.00	7,022.68	7,527.00	7,417.87	71.01	31.60	-161.31	1,646.38	-387.43	3,315.15	3,240.27	74.88	44.273	
8,050.00	7,066.06	7,527.00	7,417.87	71.51	31.60	-171.82	1,646.38	-387.43	3,334.20	3,259.21	74.99	44.463	
8,100.00	7,109.82	7,527.00	7,417.87	71.97	31.60	177.07	1,646.38	-387.43	3,353.74	3,278.66	75.08	44.671	
8,150.00	7,153.63	7,527.00	7,417.87	72.38	31.60	165.85	1,646.38	-387.43	3,373.62	3,298.48	75.15	44.894	
8,200.00	7,197.14	7,527.00	7,417.87	72.74	31.60	155.05	1,646.38	-387.43	3,393.69	3,318.49	75.20	45.131	
8,250.00	7,240.04	7,527.00	7,417.87	73.05	31.60	145.06	1,646.38	-387.43	3,413.79	3,338.56	75.23	45.377	
8,300.00	7,281.99	7,564.22	7,451.77	73.31	31.60	136.10	1,631.45	-383.80	3,432.63	3,357.46	75.17	45.666	
8,350.00	7,322.67	7,572.40	7,459.12	73.52	31.60	128.28	1,627.91	-383.24	3,451.78	3,376.61	75.17	45.922	
8,400.00	7,361.77	7,580.56	7,466.41	73.68	31.60	121.51	1,624.28	-382.77	3,470.41	3,395.25	75.16	46.174	
8,450.00	7,399.01	7,616.00	7,497.58	73.78	31.61	115.74	1,607.47	-381.73	3,489.00	3,413.93	75.07	46.475	
8,500.00	7,434.08	7,616.00	7,497.58	73.85	31.61	110.72	1,607.47	-381.73	3,505.90	3,430.81	75.09	46.687	
8,550.00	7,466.74	7,616.00	7,497.58	73.87	31.61	106.39	1,607.47	-381.73	3,522.02	3,446.90	75.12	46.886	
8,600.00	7,496.72	7,616.00	7,497.58	73.85	31.61	102.65	1,607.47	-381.73	3,537.24	3,462.09	75.15	47.068	
8,650.00	7,523.80	7,616.00	7,497.58	73.79	31.61	99.45	1,607.47	-381.73	3,551.47	3,476.27	75.20	47.228	
8,700.00	7,547.77	7,644.26	7,521.88	73.70	31.59	96.97	1,593.05	-381.70	3,564.35	3,489.18	75.17	47.416	
8,750.00	7,568.45	7,662.32	7,537.20	73.58	31.58	94.86	1,583.47	-381.82	3,575.88	3,500.69	75.20	47.554	
8,800.00	7,585.69	7,679.93	7,551.96	73.43	31.57	93.17	1,573.88	-382.06	3,585.99	3,510.75	75.24	47.660	
8,850.00	7,599.35	7,705.00	7,572.68	73.26	31.55	91.95	1,559.78	-382.59	3,594.64	3,519.36	75.28	47.750	
8,900.00	7,609.33	7,899.28	7,720.14	73.07	31.34	92.81	1,433.83	-383.17	3,601.10	3,526.65	74.45	48.370	
8,950.00	7,615.55	7,943.51	7,749.52	72.87	31.27	92.58	1,400.78	-382.51	3,604.71	3,530.35	74.36	48.478	
9,000.00	7,617.97	9,000.00	7,771.57	72.65	30.35	92.63	1,373.82	-381.94	3,606.49	3,532.80	73.70	48.937	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,006.60	7,618.00	7,973.00	7,768.05	72.62	31.23	92.56	1,377.84	-382.02	3,606.63	3,532.23	74.40	48.475	
9,100.00	7,618.00	8,014.40	7,792.55	72.22	31.16	92.95	1,344.48	-381.72	3,609.01	3,534.46	74.55	48.411	
9,200.00	7,618.00	9,200.00	7,841.57	71.80	29.70	93.73	1,261.25	-382.74	3,613.23	3,539.23	73.99	48.832	
9,300.00	7,618.00	8,402.37	7,932.12	71.41	30.50	95.16	986.12	-382.32	3,616.16	3,543.35	72.81	49.666	
9,400.00	7,618.00	8,476.47	7,937.76	71.04	30.42	95.25	912.25	-381.50	3,615.48	3,542.60	72.88	49.609	
9,413.08	7,618.00	8,484.45	7,938.07	70.99	30.41	95.25	904.27	-381.50	3,615.47	3,542.57	72.90	49.592	
9,500.00	7,618.00	8,565.36	7,939.73	70.68	30.40	95.28	823.39	-381.83	3,615.69	3,542.73	72.95	49.561	
9,600.00	7,618.00	8,693.92	7,943.02	70.35	30.64	95.33	694.87	-381.71	3,615.50	3,542.45	73.05	49.492	
9,635.38	7,618.00	8,706.82	7,943.36	70.24	30.70	95.34	681.98	-381.71	3,615.42	3,542.19	73.24	49.367	
9,700.00	7,618.00	8,740.31	7,944.22	70.04	30.84	95.35	648.50	-381.89	3,615.70	3,542.18	73.52	49.178	
9,800.00	7,618.00	8,862.26	7,947.50	69.75	31.47	95.40	526.59	-383.31	3,616.89	3,542.89	74.00	48.878	
9,900.00	7,618.00	9,018.22	7,952.22	69.47	32.54	95.48	370.72	-381.79	3,615.58	3,540.77	74.81	48.328	
10,000.00	7,618.00	9,129.17	7,951.85	69.22	33.41	95.48	259.78	-380.70	3,614.24	3,538.50	75.75	47.714	
10,100.00	7,618.00	9,192.49	7,952.20	68.99	33.95	95.48	196.47	-380.18	3,613.15	3,536.53	76.63	47.153	
10,200.00	7,618.00	10,200.00	7,954.68	68.78	43.41	95.52	79.47	-379.29	3,612.25	3,526.50	85.74	42.129	
10,282.04	7,618.00	9,353.65	7,955.62	68.62	35.44	95.54	35.35	-378.91	3,611.62	3,532.91	78.71	45.888	
10,300.00	7,618.00	9,360.61	7,955.76	68.59	35.51	95.54	28.39	-378.94	3,611.64	3,532.79	78.86	45.799	
10,400.00	7,618.00	9,405.92	7,956.54	68.42	35.95	95.55	-16.91	-379.59	3,612.79	3,532.99	79.80	45.273	
10,500.00	7,618.00	9,635.23	7,961.49	68.28	38.38	95.63	-246.14	-379.96	3,612.84	3,530.33	82.51	43.788	
10,600.00	7,618.00	9,754.00	7,964.46	68.16	39.74	95.68	-364.84	-377.05	3,610.21	3,525.77	84.44	42.753	
10,700.00	7,618.00	9,806.05	7,965.83	68.06	40.36	95.71	-416.86	-376.01	3,608.36	3,522.66	85.70	42.105	
10,771.12	7,618.00	9,843.00	7,967.16	68.01	40.80	95.73	-453.79	-375.95	3,608.14	3,521.54	86.61	41.660	
10,800.00	7,618.00	9,848.59	7,967.38	67.99	40.87	95.73	-459.38	-375.98	3,608.26	3,521.40	86.86	41.543	
10,900.00	7,618.00	9,955.16	7,971.58	67.95	42.18	95.80	-565.86	-376.51	3,608.81	3,519.92	88.89	40.597	
11,000.00	7,618.00	10,124.36	7,973.78	67.95	44.34	95.83	-735.04	-376.33	3,608.63	3,516.69	91.93	39.253	
11,100.00	7,618.00	10,199.00	7,973.16	67.97	45.31	95.83	-809.67	-375.89	3,607.59	3,513.89	93.70	38.501	
11,200.00	7,618.00	11,200.00	7,968.95	68.04	59.02	95.76	-971.61	-374.06	3,605.80	3,497.44	108.35	33.278	
11,300.00	7,618.00	10,441.56	7,966.46	68.15	48.62	95.73	-1,052.11	-372.50	3,603.30	3,504.37	98.92	36.425	
11,400.00	7,618.00	10,500.68	7,964.91	68.30	49.45	95.70	-1,111.20	-372.06	3,601.95	3,501.36	100.59	35.808	
11,471.12	7,618.00	10,543.84	7,964.30	68.43	50.06	95.69	-1,154.36	-372.09	3,601.66	3,499.85	101.81	35.376	
11,500.00	7,618.00	10,556.00	7,964.22	68.50	50.23	95.69	-1,166.52	-372.15	3,601.71	3,499.50	102.21	35.240	
11,600.00	7,618.00	10,626.79	7,964.54	68.75	51.23	95.70	-1,237.30	-372.88	3,602.48	3,498.35	104.13	34.597	
11,700.00	7,618.00	10,799.10	7,970.03	69.06	53.72	95.78	-1,409.51	-373.43	3,602.80	3,494.75	108.05	33.344	
11,800.00	7,618.00	10,937.18	7,974.27	69.44	55.76	95.85	-1,547.51	-371.62	3,601.45	3,490.03	111.43	32.321	
11,900.00	7,618.00	11,046.07	7,974.73	69.88	57.40	95.86	-1,656.38	-369.70	3,599.39	3,485.11	114.28	31.496	
12,000.00	7,618.00	11,129.34	7,972.50	70.39	58.66	95.83	-1,739.61	-368.78	3,597.66	3,481.03	116.64	30.844	
12,100.00	7,618.00	11,255.51	7,968.35	70.97	60.59	95.77	-1,865.70	-367.13	3,595.69	3,475.76	119.93	29.981	
12,200.00	7,618.00	11,352.52	7,965.54	71.63	62.09	95.73	-1,962.66	-365.44	3,593.32	3,470.67	122.66	29.296	
12,300.00	7,618.00	11,434.28	7,963.66	72.35	63.36	95.70	-2,044.39	-364.26	3,591.33	3,466.24	125.09	28.711	
12,400.00	7,618.00	11,509.80	7,962.17	73.15	64.53	95.68	-2,119.89	-363.60	3,589.93	3,462.54	127.39	28.180	
12,500.00	7,618.00	11,581.18	7,960.88	74.01	65.65	95.66	-2,191.25	-363.50	3,589.28	3,459.66	129.62	27.691	
12,527.49	7,618.00	11,600.14	7,960.56	74.26	65.95	95.65	-2,210.21	-363.57	3,589.25	3,459.03	130.22	27.563	
12,600.00	7,618.00	11,647.00	7,959.85	74.93	66.68	95.64	-2,257.07	-363.94	3,589.48	3,457.75	131.73	27.250	
12,700.00	7,618.00	11,713.28	7,959.07	75.91	67.72	95.63	-2,323.33	-364.99	3,590.62	3,456.77	133.85	26.827	
12,800.00	7,618.00	11,776.03	7,958.51	76.95	68.70	95.62	-2,386.06	-366.62	3,592.79	3,456.91	135.88	26.440	
12,900.00	7,618.00	11,844.09	7,957.76	78.04	69.77	95.60	-2,454.07	-369.13	3,595.98	3,457.94	138.04	26.049	
13,000.00	7,618.00	11,930.93	7,956.83	79.16	71.13	95.58	-2,540.82	-372.77	3,599.72	3,459.05	140.67	25.590	
13,100.00	7,618.00	12,012.87	7,956.14	80.33	72.42	95.56	-2,622.67	-376.60	3,603.94	3,460.75	143.19	25.169	
13,200.00	7,618.00	12,136.82	7,956.31	81.54	74.38	95.56	-2,746.50	-382.28	3,608.21	3,461.42	146.79	24.580	
13,300.00	7,618.00	12,255.82	7,957.43	82.78	76.28	95.57	-2,865.41	-386.58	3,611.54	3,461.23	150.31	24.028	
13,400.00	7,618.00	12,383.79	7,958.79	84.05	78.34	95.59	-2,993.31	-390.38	3,614.22	3,460.14	154.08	23.457	
13,500.00	7,618.00	12,449.00	7,959.08	85.35	79.40	95.59	-3,058.49	-392.42	3,617.08	3,460.82	156.26	23.148	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,600.00	7,618.00	12,522.02	7,959.14	86.67	80.57	95.59	-3,131.46	-395.35	3,620.78	3,462.15	158.64	22.825	
13,700.00	7,618.00	12,627.22	7,959.79	88.02	82.27	95.59	-3,236.55	-400.11	3,625.01	3,463.14	161.87	22.395	
13,800.00	7,618.00	12,729.91	7,960.62	89.38	83.94	95.60	-3,339.13	-404.50	3,629.01	3,463.96	165.06	21.986	
13,900.00	7,618.00	12,839.89	7,961.21	90.77	85.73	95.60	-3,449.02	-409.06	3,632.86	3,464.40	168.46	21.566	
14,000.00	7,618.00	13,312.38	7,947.63	92.17	93.60	95.39	-3,920.97	-405.73	3,632.02	3,450.91	181.11	20.054	
14,100.00	7,618.00	13,486.91	7,943.79	93.59	96.56	95.35	-4,095.02	-393.36	3,624.42	3,438.28	186.14	19.472	
14,200.00	7,618.00	13,714.43	7,945.05	95.02	100.47	95.41	-4,321.19	-369.03	3,612.77	3,420.40	192.36	18.781	
14,300.00	7,618.00	13,786.00	7,946.14	96.47	101.71	95.44	-4,392.28	-360.78	3,601.08	3,406.05	195.03	18.465	
14,400.00	7,618.00	13,835.60	7,946.87	97.93	102.56	95.46	-4,441.60	-355.60	3,590.44	3,393.27	197.17	18.210	
14,500.00	7,618.00	13,875.00	7,947.50	99.41	103.24	95.48	-4,480.82	-351.91	3,581.14	3,382.10	199.04	17.992	
14,600.00	7,618.00	13,935.18	7,948.41	100.89	104.27	95.50	-4,540.80	-347.11	3,573.15	3,371.77	201.38	17.744	
14,700.00	7,618.00	13,983.29	7,949.01	102.38	105.10	95.51	-4,588.81	-344.08	3,566.65	3,363.26	203.39	17.536	
14,800.00	7,618.00	14,031.81	7,949.67	103.89	105.93	95.53	-4,637.27	-341.71	3,561.59	3,356.21	205.38	17.342	
14,900.00	7,618.00	14,077.95	7,950.37	105.40	106.72	95.54	-4,683.38	-340.13	3,558.00	3,350.73	207.27	17.166	
15,000.00	7,618.00	14,142.00	7,951.15	106.92	107.81	95.55	-4,747.41	-339.18	3,556.08	3,346.47	209.60	16.966	
15,076.62	7,618.00	14,142.00	7,951.15	108.09	107.81	95.55	-4,747.41	-339.18	3,555.51	3,345.50	210.01	16.930	
15,100.00	7,618.00	14,164.83	7,951.36	108.45	108.19	95.56	-4,770.24	-339.21	3,555.49	3,344.72	210.77	16.869	
15,200.00	7,618.00	14,205.99	7,951.60	109.99	108.89	95.56	-4,811.39	-339.81	3,556.67	3,344.29	212.38	16.747	
15,300.00	7,618.00	14,264.16	7,951.70	111.54	109.87	95.56	-4,869.54	-341.67	3,559.41	3,344.97	214.44	16.599	
15,400.00	7,618.00	14,370.47	7,951.61	113.09	111.65	95.55	-4,975.77	-345.54	3,562.70	3,344.79	217.92	16.349	
15,500.00	7,618.00	14,611.27	7,953.25	114.65	115.74	95.58	-5,216.52	-348.05	3,563.09	3,337.81	225.28	15.816	
15,600.00	7,618.00	14,690.85	7,954.97	116.21	117.10	95.61	-5,296.08	-347.58	3,562.39	3,334.35	228.04	15.622	
15,638.13	7,618.00	14,715.70	7,955.51	116.81	117.52	95.61	-5,320.92	-347.56	3,562.32	3,333.39	228.93	15.560	
15,700.00	7,618.00	14,756.02	7,956.32	117.78	118.21	95.63	-5,361.24	-347.74	3,562.51	3,332.13	230.38	15.464	
15,800.00	7,618.00	14,821.97	7,957.40	119.36	119.33	95.64	-5,427.17	-348.58	3,563.59	3,330.87	232.72	15.313	
15,900.00	7,618.00	14,886.78	7,958.02	120.94	120.43	95.65	-5,491.97	-350.06	3,565.64	3,330.63	235.01	15.172	
16,000.00	7,618.00	14,952.72	7,958.19	122.53	121.55	95.65	-5,557.86	-352.30	3,568.69	3,331.38	237.31	15.038	
16,100.00	7,618.00	15,056.87	7,958.59	124.12	123.31	95.65	-5,661.93	-356.43	3,572.34	3,331.58	240.76	14.838	
16,200.00	7,618.00	15,208.89	7,962.82	125.72	125.90	95.71	-5,813.84	-360.16	3,574.58	3,328.90	245.68	14.550	
16,300.00	7,618.00	15,326.10	7,967.49	127.32	127.90	95.79	-5,930.93	-362.07	3,576.27	3,326.73	249.54	14.331	
16,400.00	7,618.00	15,428.53	7,970.82	128.93	129.65	95.84	-6,033.30	-363.42	3,577.57	3,324.59	252.97	14.142	
16,500.00	7,618.00	15,530.94	7,973.95	130.54	131.41	95.89	-6,135.66	-364.98	3,579.06	3,322.65	256.41	13.958	
16,600.00	7,618.00	15,666.93	7,978.33	132.15	133.74	95.95	-6,271.57	-366.14	3,579.91	3,319.07	260.84	13.725	
16,700.00	7,618.00	15,751.14	7,980.99	133.77	135.19	96.00	-6,355.74	-366.67	3,580.52	3,316.77	263.75	13.576	
16,800.00	7,618.00	15,853.34	7,984.62	135.39	136.95	96.05	-6,457.87	-367.26	3,581.13	3,313.94	267.19	13.403	
16,900.00	7,618.00	15,924.00	7,986.94	137.01	138.17	96.09	-6,528.49	-368.03	3,582.23	3,312.54	269.69	13.283	
17,000.00	7,618.00	16,003.93	7,989.47	138.64	139.54	96.13	-6,608.37	-369.47	3,584.01	3,311.56	272.46	13.154	
17,100.00	7,618.00	16,083.92	7,992.16	140.27	140.91	96.17	-6,688.28	-371.34	3,586.37	3,311.15	275.22	13.031	
17,200.00	7,618.00	16,158.99	7,994.67	141.91	142.20	96.20	-6,763.28	-373.56	3,589.33	3,311.52	277.82	12.920	
17,300.00	7,618.00	16,225.11	7,996.70	143.55	143.33	96.23	-6,829.32	-376.04	3,593.09	3,312.97	280.11	12.827	
17,400.00	7,618.00	16,288.76	7,998.43	145.19	144.42	96.25	-6,892.87	-379.16	3,597.90	3,315.59	282.31	12.745	
17,500.00	7,618.00	16,383.16	8,001.15	146.83	146.02	96.29	-6,987.10	-384.23	3,603.22	3,317.72	285.50	12.621	
17,600.00	7,618.00	16,463.95	8,003.02	148.48	147.40	96.31	-7,067.72	-388.93	3,608.92	3,320.69	288.23	12.521	
17,700.00	7,618.00	16,560.77	8,004.60	150.13	149.04	96.33	-7,164.35	-394.94	3,614.93	3,323.43	291.50	12.401	
17,800.00	7,618.00	16,660.35	8,006.14	151.78	150.74	96.34	-7,263.73	-401.11	3,620.92	3,326.06	294.86	12.280	
17,900.00	7,618.00	16,794.14	8,006.27	153.43	153.01	96.33	-7,397.24	-409.57	3,627.01	3,327.65	299.36	12.116	
18,000.00	7,618.00	17,100.58	7,999.07	155.09	158.29	96.20	-7,703.44	-417.35	3,628.25	3,319.10	309.15	11.736	
18,100.00	7,618.00	17,257.16	7,991.95	156.75	161.01	96.09	-7,859.86	-416.62	3,627.00	3,312.81	314.18	11.544	
18,200.00	7,618.00	17,514.53	7,993.19	158.41	165.51	96.13	-8,116.87	-405.90	3,622.36	3,300.64	321.72	11.259	
18,300.00	7,618.00	17,632.87	7,998.14	160.07	167.60	96.23	-8,234.82	-397.73	3,615.60	3,290.00	325.60	11.104	
18,400.00	7,618.00	17,746.45	8,002.95	161.74	169.60	96.32	-8,347.99	-389.35	3,608.37	3,279.01	329.36	10.956	
18,500.00	7,618.00	17,796.00	8,005.06	163.41	170.48	96.36	-8,397.35	-385.62	3,601.37	3,269.79	331.58	10.861	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,600.00	7,618.00	17,796.00	8,005.06	165.08	170.48	96.36	-8,397.35	-385.62	3,596.80	3,264.37	332.42	10.820	
18,700.00	7,618.00	17,796.00	8,005.06	166.75	170.48	96.36	-8,397.35	-385.62	3,595.00	3,261.97	333.03	10.795	
18,711.30	7,618.00	17,796.00	8,005.06	166.94	170.48	96.36	-8,397.35	-385.62	3,594.97	3,261.89	333.08	10.793	SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-52.66	786.52	-1,030.94	1,296.76				
100.00	100.00	87.76	87.76	0.13	0.15	-52.66	786.50	-1,030.97	1,296.71	1,296.43	0.28	4,624.369	CC
200.00	200.00	187.48	187.48	0.49	0.31	-52.67	786.41	-1,031.07	1,296.74	1,295.94	0.80	1,611.327	
300.00	300.00	287.21	287.21	0.85	0.48	-52.68	786.26	-1,031.25	1,296.79	1,295.46	1.33	975.674	
400.00	400.00	384.96	384.96	1.21	0.76	-52.69	786.17	-1,031.47	1,296.92	1,294.95	1.97	657.593	
500.00	500.00	481.82	481.82	1.57	1.10	-52.68	786.51	-1,031.64	1,297.27	1,294.60	2.67	486.167	
600.00	600.00	578.68	578.68	1.93	1.44	-52.65	787.30	-1,031.77	1,297.87	1,294.51	3.36	385.759	
700.00	700.00	682.57	682.56	2.29	1.80	-52.63	788.02	-1,031.98	1,298.46	1,294.37	4.09	317.767	
800.00	800.00	785.07	784.99	2.64	2.16	-52.48	791.00	-1,030.11	1,298.78	1,293.97	4.80	270.403	
900.00	900.00	886.59	886.36	3.00	2.52	-52.23	795.54	-1,026.83	1,298.95	1,293.43	5.52	235.413	
1,000.00	999.98	988.84	988.33	3.36	2.88	-109.16	801.41	-1,022.34	1,299.59	1,293.35	6.24	208.302	ES
1,100.00	1,099.84	1,083.55	1,082.51	3.71	3.23	-108.89	809.39	-1,016.23	1,301.42	1,294.48	6.94	187.504	
1,200.00	1,199.45	1,226.94	1,224.88	4.07	3.77	-108.64	821.29	-1,004.24	1,302.76	1,294.92	7.84	166.228	
1,300.00	1,298.70	1,315.67	1,312.97	4.44	4.12	-108.61	827.88	-995.86	1,303.93	1,295.39	8.55	152.570	
1,400.00	1,397.47	1,392.54	1,389.04	4.82	4.42	-108.55	836.00	-988.39	1,307.90	1,298.66	9.23	141.659	
1,500.00	1,495.62	1,473.97	1,468.95	5.22	4.77	-108.39	848.40	-978.95	1,314.43	1,304.46	9.97	131.829	
1,600.00	1,593.06	1,552.47	1,545.50	5.65	5.11	-108.19	862.95	-969.45	1,323.68	1,312.94	10.73	123.322	
1,700.00	1,689.64	1,653.68	1,644.40	6.11	5.57	-108.13	881.22	-958.11	1,334.42	1,322.79	11.63	114.704	
1,800.00	1,785.27	1,733.78	1,722.99	6.61	5.92	-108.20	894.84	-950.81	1,347.26	1,334.80	12.46	108.114	
1,900.00	1,879.82	1,864.81	1,851.63	7.15	6.51	-108.64	916.61	-938.68	1,361.03	1,347.46	13.57	100.303	
2,000.00	1,973.17	1,958.87	1,944.11	7.73	6.93	-109.03	930.68	-928.84	1,374.05	1,359.51	14.54	94.489	
2,100.00	2,065.21	2,060.43	2,044.03	8.37	7.38	-109.58	946.10	-919.27	1,389.38	1,373.79	15.59	89.110	
2,200.00	2,155.84	2,201.49	2,182.65	9.07	8.02	-110.60	966.00	-902.48	1,403.39	1,386.51	16.88	83.162	
2,300.00	2,244.94	2,281.00	2,260.75	9.82	8.38	-111.12	977.12	-892.52	1,418.66	1,400.74	17.92	79.165	
2,400.00	2,332.39	2,357.91	2,336.29	10.64	8.73	-111.64	988.49	-883.60	1,436.78	1,417.79	18.99	75.648	
2,500.00	2,418.11	2,431.82	2,408.89	11.53	9.07	-112.15	999.92	-875.83	1,457.94	1,437.85	20.09	72.578	
2,558.91	2,467.74	2,479.62	2,455.89	12.08	9.29	-112.53	1,007.40	-871.25	1,471.79	1,451.02	20.77	70.871	
2,600.00	2,502.13	2,513.03	2,488.75	12.47	9.44	-112.99	1,012.55	-868.23	1,481.89	1,460.64	21.24	69.753	
2,700.00	2,585.83	2,593.68	2,568.21	13.45	9.80	-114.09	1,024.67	-861.54	1,507.41	1,485.00	22.40	67.282	
2,800.00	2,669.53	2,671.31	2,644.71	14.44	10.15	-115.13	1,036.48	-855.71	1,534.35	1,510.81	23.54	65.182	
2,900.00	2,753.22	2,766.73	2,738.53	15.46	10.58	-116.33	1,052.20	-848.31	1,562.33	1,537.55	24.78	63.047	
3,000.00	2,836.92	2,909.59	2,878.46	16.48	11.26	-117.96	1,077.24	-834.15	1,589.75	1,563.44	26.31	60.426	
3,100.00	2,920.62	3,032.91	2,999.09	17.52	11.85	-119.30	1,097.11	-817.98	1,614.09	1,586.38	27.72	58.230	
3,200.00	3,004.32	3,107.03	3,071.63	18.56	12.20	-120.08	1,108.90	-808.35	1,639.14	1,610.29	28.85	56.820	
3,300.00	3,088.01	3,243.47	3,205.55	19.61	12.85	-121.56	1,128.36	-791.01	1,664.43	1,634.15	30.28	54.967	
3,400.00	3,171.71	3,334.98	3,295.17	20.67	13.28	-122.51	1,141.14	-777.69	1,688.41	1,656.94	31.47	53.649	
3,500.00	3,255.41	3,403.27	3,362.35	21.73	13.59	-123.24	1,149.70	-768.85	1,713.80	1,681.29	32.51	52.708	
3,600.00	3,339.10	3,475.61	3,433.59	22.80	13.92	-124.01	1,158.97	-760.38	1,740.87	1,707.31	33.55	51.883	
3,700.00	3,422.80	3,551.53	3,508.21	23.87	14.27	-124.76	1,170.04	-751.84	1,769.34	1,734.73	34.61	51.122	
3,800.00	3,506.50	3,644.12	3,599.10	24.94	14.71	-125.62	1,184.49	-741.65	1,798.75	1,762.99	35.76	50.303	
3,900.00	3,590.20	3,731.93	3,685.28	26.02	15.12	-126.41	1,198.19	-731.87	1,828.41	1,791.54	36.87	49.590	
4,000.00	3,673.89	4,000.00	3,795.46	27.10	16.42	-127.35	1,216.63	-718.28	1,857.74	1,818.87	38.87	47.793	
4,100.00	3,757.59	3,915.47	3,865.04	28.18	16.00	-127.95	1,227.76	-709.64	1,887.33	1,848.20	39.13	48.236	
4,200.00	3,841.29	3,980.23	3,928.72	29.26	16.31	-128.50	1,237.67	-703.26	1,919.02	1,878.97	40.05	47.911	
4,300.00	3,924.99	4,085.67	4,032.51	30.35	16.79	-129.39	1,253.11	-692.94	1,950.99	1,909.78	41.21	47.338	
4,400.00	4,008.68	4,172.83	4,118.17	31.44	17.20	-130.07	1,266.64	-684.17	1,983.27	1,941.00	42.26	46.929	
4,500.00	4,092.38	4,257.07	4,200.80	32.52	17.59	-130.69	1,280.59	-675.62	2,015.96	1,972.66	43.29	46.566	
4,600.00	4,176.08	4,340.05	4,282.34	33.62	17.98	-131.30	1,293.92	-667.95	2,049.60	2,005.30	44.30	46.267	
4,700.00	4,259.77	4,491.39	4,430.73	34.71	18.70	-132.35	1,318.52	-651.38	2,081.95	2,036.19	45.76	45.498	
4,800.00	4,343.47	4,600.20	4,536.78	35.80	19.25	-133.00	1,338.30	-637.16	2,112.98	2,066.01	46.97	44.983	
4,900.00	4,427.17	4,644.40	4,579.97	36.89	19.47	-133.27	1,346.08	-631.94	2,145.11	2,097.38	47.73	44.944	
5,000.00	4,510.87	4,722.13	4,656.10	37.99	19.84	-133.75	1,359.64	-624.05	2,179.00	2,130.31	48.69	44.751	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	4,872.00	4,802.95	39.08	20.56	-134.66	1,384.10	-606.86	2,211.79	2,161.67	50.12	44.127	
5,200.00	4,678.26	4,961.13	4,890.17	40.18	21.00	-135.19	1,398.47	-595.41	2,243.49	2,192.35	51.14	43.867	
5,300.00	4,761.96	5,023.11	4,950.87	41.28	21.30	-135.54	1,408.55	-588.00	2,276.22	2,224.25	51.97	43.795	
5,400.00	4,845.66	5,084.66	5,011.33	42.37	21.59	-135.91	1,418.11	-581.53	2,310.35	2,257.58	52.77	43.780	
5,500.00	4,929.35	5,195.78	5,120.89	43.47	22.09	-136.60	1,433.34	-570.97	2,345.50	2,291.64	53.87	43.544	
5,600.00	5,013.05	5,296.96	5,220.66	44.57	22.54	-137.23	1,446.22	-560.12	2,379.54	2,324.67	54.87	43.367	
5,700.00	5,096.75	5,435.49	5,357.01	45.67	23.18	-138.04	1,464.54	-543.91	2,413.00	2,356.89	56.11	43.002	
5,800.00	5,180.45	5,517.52	5,437.38	46.77	23.57	-138.47	1,476.81	-533.04	2,445.37	2,388.34	57.03	42.879	
5,900.00	5,264.14	5,572.36	5,491.29	47.87	23.83	-138.77	1,484.60	-526.65	2,479.25	2,421.50	57.75	42.931	
6,000.00	5,347.84	5,673.06	5,590.34	48.97	24.30	-139.30	1,498.90	-515.45	2,513.80	2,455.04	58.76	42.782	
6,100.00	5,431.54	5,777.76	5,693.30	50.07	24.78	-139.84	1,513.47	-503.27	2,548.02	2,488.23	59.79	42.619	
6,200.00	5,515.23	5,881.92	5,795.73	51.17	25.27	-140.36	1,527.70	-490.83	2,582.11	2,521.31	60.80	42.468	
6,300.00	5,598.93	5,952.36	5,864.90	52.27	25.59	-140.70	1,537.81	-482.15	2,616.11	2,554.51	61.60	42.471	
6,400.00	5,682.63	6,012.00	5,923.72	53.38	25.87	-141.00	1,545.51	-476.05	2,651.85	2,589.55	62.30	42.568	
6,500.00	5,766.33	6,079.30	5,990.21	54.48	26.16	-141.34	1,553.87	-469.89	2,688.74	2,625.72	63.03	42.661	
6,600.00	5,850.02	6,180.84	6,090.39	55.58	26.61	-141.83	1,567.29	-460.18	2,725.58	2,661.59	64.00	42.590	
6,700.00	5,933.72	6,282.61	6,190.75	56.68	27.07	-142.30	1,580.83	-450.06	2,762.22	2,697.26	64.97	42.518	
6,800.00	6,017.42	6,402.37	6,308.81	57.79	27.61	-142.84	1,596.39	-437.38	2,798.41	2,732.36	66.05	42.368	
6,900.00	6,101.12	6,548.72	6,452.79	58.89	28.29	-143.48	1,615.78	-419.71	2,833.36	2,766.06	67.30	42.098	
7,000.00	6,184.81	6,608.73	6,511.82	59.99	28.56	-143.73	1,623.51	-412.21	2,868.02	2,800.03	67.99	42.183	
7,100.00	6,268.51	6,678.75	6,580.89	61.10	28.87	-144.04	1,631.75	-404.16	2,903.71	2,834.99	68.72	42.256	
7,200.00	6,352.21	6,752.02	6,653.29	62.20	29.19	-144.38	1,639.70	-396.12	2,940.04	2,870.60	69.44	42.337	
7,300.00	6,435.90	7,208.78	7,097.30	63.31	30.73	-147.68	1,617.48	-315.73	2,966.64	2,895.87	70.77	41.920	
7,400.00	6,519.60	7,226.46	7,113.70	64.41	30.76	-147.89	1,612.02	-312.01	2,994.17	2,923.02	71.15	42.081	
7,500.00	6,603.30	7,261.00	7,145.58	65.51	30.81	-148.31	1,600.27	-305.82	3,024.55	2,953.13	71.42	42.348	
7,600.00	6,687.00	7,261.00	7,145.58	66.62	30.81	-148.31	1,600.27	-305.82	3,057.03	2,985.28	71.75	42.606	
7,700.00	6,770.69	7,261.00	7,145.58	67.72	30.81	-148.31	1,600.27	-305.82	3,092.40	3,020.38	72.01	42.941	
7,800.00	6,854.39	7,296.37	7,177.91	68.83	30.83	-148.76	1,586.85	-300.77	3,129.77	3,057.65	72.12	43.396	
7,900.00	6,938.09	7,313.65	7,193.56	69.93	30.84	-148.98	1,579.82	-298.73	3,169.65	3,097.42	72.24	43.878	
7,933.18	6,965.86	7,350.00	7,226.12	70.30	30.86	-149.47	1,564.03	-295.31	3,184.00	3,111.82	72.17	44.115	
7,950.00	6,980.00	7,350.00	7,226.12	70.49	30.86	-152.55	1,564.03	-295.31	3,190.96	3,118.76	72.20	44.197	
8,000.00	7,022.68	7,350.00	7,226.12	71.01	30.86	-162.45	1,564.03	-295.31	3,212.11	3,139.85	72.26	44.454	
8,050.00	7,066.06	7,350.00	7,226.12	71.51	30.86	-173.30	1,564.03	-295.31	3,233.82	3,161.53	72.30	44.728	
8,100.00	7,109.82	7,350.00	7,226.12	71.97	30.86	175.25	1,564.03	-295.31	3,255.92	3,183.60	72.33	45.017	
8,150.00	7,153.63	7,372.79	7,246.23	72.38	30.86	163.56	1,553.45	-293.58	3,278.10	3,205.83	72.27	45.357	
8,200.00	7,197.14	7,398.15	7,268.26	72.74	30.85	152.37	1,541.04	-291.73	3,299.99	3,227.79	72.20	45.708	
8,250.00	7,240.04	7,423.86	7,290.22	73.05	30.85	142.11	1,527.79	-289.94	3,321.40	3,249.29	72.11	46.062	
8,300.00	7,281.99	7,439.00	7,302.97	73.31	30.85	133.02	1,519.68	-288.92	3,342.18	3,270.14	72.04	46.390	
8,350.00	7,322.67	7,475.09	7,332.72	73.52	30.82	125.04	1,499.37	-286.62	3,362.10	3,290.21	71.89	46.767	
8,400.00	7,361.77	7,500.86	7,353.36	73.68	30.81	118.20	1,484.04	-285.09	3,381.09	3,309.32	71.77	47.110	
8,450.00	7,399.01	7,528.00	7,374.56	73.78	30.79	112.38	1,467.16	-283.58	3,398.97	3,327.33	71.64	47.444	
8,500.00	7,434.08	7,528.00	7,374.56	73.85	30.79	107.40	1,467.16	-283.58	3,415.78	3,344.14	71.64	47.677	
8,550.00	7,466.74	7,567.62	7,404.46	73.87	30.74	103.23	1,441.24	-281.69	3,431.08	3,359.62	71.46	48.012	
8,600.00	7,496.72	7,587.96	7,419.33	73.85	30.72	99.71	1,427.38	-280.90	3,445.13	3,373.75	71.38	48.261	
8,650.00	7,523.80	7,617.00	7,439.95	73.79	30.69	96.81	1,406.95	-280.00	3,457.75	3,386.48	71.27	48.514	
8,700.00	7,547.77	7,617.00	7,439.95	73.70	30.69	94.30	1,406.95	-280.00	3,468.83	3,397.49	71.34	48.624	
8,750.00	7,568.45	7,617.00	7,439.95	73.58	30.69	92.23	1,406.95	-280.00	3,478.58	3,407.15	71.43	48.699	
8,800.00	7,585.69	7,651.75	7,463.63	73.43	30.63	90.79	1,381.54	-279.46	3,486.35	3,415.01	71.35	48.864	
8,850.00	7,599.35	7,664.92	7,472.31	73.26	30.61	89.61	1,371.63	-279.46	3,492.75	3,421.34	71.41	48.909	
8,900.00	7,609.33	7,677.85	7,480.66	73.07	30.58	88.80	1,361.76	-279.56	3,497.52	3,426.01	71.51	48.912	
8,950.00	7,615.55	7,707.00	7,498.87	72.87	30.54	88.49	1,339.01	-280.18	3,500.77	3,429.25	71.52	48.945	
9,000.00	7,617.97	7,707.00	7,498.87	72.65	30.54	88.25	1,339.01	-280.18	3,502.12	3,430.37	71.76	48.806	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,006.60	7,618.00	7,707.00	7,498.87	72.62	30.54	88.25	1,339.01	-280.18	3,502.19	3,430.40	71.79	48.785	
9,100.00	7,618.00	7,732.30	7,513.94	72.22	30.49	88.49	1,318.71	-281.09	3,503.96	3,431.87	72.10	48.601	
9,200.00	7,618.00	7,764.77	7,532.23	71.80	30.42	88.79	1,291.92	-282.67	3,507.91	3,435.52	72.40	48.454	
9,300.00	7,618.00	8,106.07	7,653.72	71.41	29.71	90.78	975.76	-292.37	3,511.97	3,441.47	70.50	49.818	
9,400.00	7,618.00	8,215.84	7,669.19	71.04	29.52	91.03	867.13	-291.22	3,510.80	3,440.40	70.40	49.868	
9,500.00	7,618.00	8,304.30	7,675.64	70.68	29.43	91.14	778.92	-290.18	3,509.43	3,438.90	70.54	49.753	
9,600.00	7,618.00	9,600.00	7,680.29	70.35	56.87	91.21	577.05	-285.33	3,506.59	3,428.67	77.91	45.006	
9,700.00	7,618.00	8,563.55	7,681.12	70.04	30.48	91.23	519.85	-283.26	3,502.90	3,431.79	71.10	49.265	
9,800.00	7,618.00	8,615.34	7,681.64	69.75	30.84	91.24	468.07	-282.47	3,500.94	3,429.25	71.69	48.835	
9,900.00	7,618.00	8,686.00	7,682.16	69.47	31.36	91.25	397.42	-281.71	3,499.66	3,427.31	72.35	48.369	
9,947.82	7,618.00	8,714.22	7,682.32	69.35	31.58	91.25	369.20	-281.61	3,499.41	3,426.70	72.71	48.130	
10,000.00	7,618.00	8,733.27	7,682.42	69.22	31.73	91.25	350.16	-281.76	3,499.65	3,426.60	73.05	47.905	
10,100.00	7,618.00	8,775.00	7,682.58	68.99	32.06	91.25	308.43	-282.72	3,501.52	3,427.76	73.76	47.471	
10,200.00	7,618.00	8,840.17	7,683.07	68.78	32.60	91.26	243.31	-285.09	3,504.76	3,430.16	74.60	46.978	
10,300.00	7,618.00	8,924.63	7,684.52	68.59	33.34	91.28	158.94	-288.61	3,508.62	3,433.01	75.61	46.405	
10,400.00	7,618.00	9,013.00	7,686.78	68.42	34.15	91.32	70.68	-292.58	3,512.83	3,436.08	76.75	45.771	
10,500.00	7,618.00	9,217.54	7,691.12	68.28	36.22	91.39	-133.71	-298.68	3,515.32	3,436.36	78.96	44.521	
10,600.00	7,618.00	9,356.17	7,690.66	68.16	37.75	91.38	-272.32	-300.15	3,515.98	3,435.04	80.94	43.440	
10,700.00	7,618.00	9,471.96	7,689.15	68.06	39.10	91.36	-388.10	-300.72	3,516.11	3,433.26	82.85	42.438	
10,800.00	7,618.00	9,587.95	7,687.03	67.99	40.50	91.32	-504.06	-300.72	3,515.73	3,430.82	84.91	41.408	
10,900.00	7,618.00	9,678.42	7,684.88	67.95	41.64	91.29	-594.51	-300.74	3,515.35	3,428.60	86.75	40.525	
11,000.00	7,618.00	9,812.52	7,684.03	67.95	43.38	91.27	-728.60	-300.17	3,514.58	3,425.27	89.31	39.353	
11,100.00	7,618.00	9,933.61	7,684.04	67.97	44.99	91.27	-849.68	-298.58	3,512.92	3,421.10	91.82	38.258	
11,200.00	7,618.00	10,083.50	7,682.60	68.04	47.06	91.25	-999.53	-295.25	3,510.35	3,415.42	94.93	36.978	
11,300.00	7,618.00	10,155.37	7,681.30	68.15	48.07	91.23	-1,071.35	-293.21	3,507.22	3,410.40	96.82	36.224	
11,400.00	7,618.00	10,220.93	7,680.80	68.30	49.00	91.22	-1,136.91	-292.25	3,505.33	3,406.69	98.63	35.539	
11,500.00	7,618.00	10,311.60	7,680.22	68.50	50.30	91.21	-1,227.56	-291.04	3,503.66	3,402.73	100.93	34.713	
11,600.00	7,618.00	10,379.00	7,680.85	68.75	51.27	91.22	-1,294.96	-291.03	3,503.18	3,400.34	102.84	34.064	
11,612.00	7,618.00	10,379.00	7,680.85	68.78	51.27	91.22	-1,294.96	-291.03	3,503.16	3,400.24	102.92	34.038	
11,700.00	7,618.00	10,460.90	7,682.33	69.06	52.46	91.25	-1,376.84	-291.60	3,503.49	3,398.43	105.06	33.347	
11,800.00	7,618.00	10,556.96	7,683.75	69.44	53.88	91.27	-1,472.89	-292.10	3,503.69	3,396.10	107.60	32.563	
11,900.00	7,618.00	10,681.60	7,684.70	69.88	55.74	91.29	-1,597.53	-292.34	3,503.55	3,392.78	110.77	31.629	
12,000.00	7,618.00	10,767.32	7,684.27	70.39	57.03	91.28	-1,683.24	-292.30	3,503.18	3,390.00	113.18	30.952	
12,000.79	7,618.00	10,767.82	7,684.27	70.40	57.04	91.28	-1,683.75	-292.30	3,503.18	3,389.99	113.20	30.948	
12,100.00	7,618.00	10,852.07	7,685.29	70.97	58.32	91.30	-1,767.98	-293.01	3,503.66	3,388.05	115.61	30.306	
12,200.00	7,618.00	11,069.71	7,687.21	71.63	61.68	91.33	-1,985.60	-290.90	3,502.33	3,381.33	121.00	28.945	
12,300.00	7,618.00	11,123.21	7,687.38	72.35	62.51	91.33	-2,039.08	-289.64	3,499.84	3,377.00	122.84	28.492	
12,400.00	7,618.00	11,181.00	7,687.98	73.15	63.42	91.34	-2,096.86	-289.75	3,499.35	3,374.58	124.77	28.047	
12,413.89	7,618.00	11,181.00	7,687.98	73.26	63.42	91.34	-2,096.86	-289.75	3,499.32	3,374.47	124.85	28.028	
12,500.00	7,618.00	11,213.51	7,688.39	74.01	63.92	91.35	-2,129.37	-290.33	3,500.20	3,374.10	126.10	27.756	
12,600.00	7,618.00	11,316.10	7,689.52	74.93	65.53	91.37	-2,231.93	-292.34	3,501.86	3,372.78	129.08	27.130	
12,700.00	7,618.00	11,497.69	7,696.83	75.91	68.41	91.49	-2,413.35	-293.45	3,502.30	3,368.28	134.01	26.134	
12,800.00	7,618.00	11,642.23	7,699.25	76.95	70.73	91.53	-2,557.87	-291.60	3,500.68	3,362.59	138.09	25.350	
12,900.00	7,618.00	11,715.00	7,699.15	78.04	71.91	91.53	-2,630.62	-290.23	3,498.59	3,358.12	140.47	24.906	
13,000.00	7,618.00	11,780.02	7,698.46	79.16	72.96	91.51	-2,695.63	-289.59	3,497.41	3,354.75	142.66	24.516	
13,036.64	7,618.00	11,804.00	7,698.13	79.59	73.35	91.51	-2,719.61	-289.68	3,497.39	3,353.92	143.46	24.378	
13,100.00	7,618.00	11,832.97	7,697.73	80.33	73.81	91.50	-2,748.57	-289.98	3,497.75	3,353.22	144.54	24.200	
13,200.00	7,618.00	11,893.00	7,697.06	81.54	74.78	91.49	-2,808.59	-291.17	3,499.34	3,352.76	146.58	23.874	
13,300.00	7,618.00	11,985.35	7,695.48	82.78	76.27	91.46	-2,900.89	-293.64	3,501.63	3,352.19	149.44	23.431	
13,400.00	7,618.00	12,048.72	7,694.30	84.05	77.29	91.44	-2,964.22	-295.72	3,504.51	3,352.94	151.57	23.122	
13,500.00	7,618.00	12,170.86	7,694.78	85.35	79.27	91.45	-3,086.27	-300.21	3,507.91	3,352.66	155.25	22.595	
13,600.00	7,618.00	12,321.04	7,696.08	86.67	81.72	91.47	-3,236.40	-303.27	3,509.48	3,349.76	159.71	21.974	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,700.00	7,618.00	12,388.14	7,695.70	88.02	82.82	91.46	-3,303.48	-304.62	3,511.18	3,349.20	161.99	21.676	
13,800.00	7,618.00	12,476.68	7,695.79	89.38	84.27	91.46	-3,391.98	-307.35	3,513.88	3,349.05	164.84	21.318	
13,900.00	7,618.00	12,686.82	7,697.46	90.77	87.75	91.49	-3,602.07	-309.78	3,514.52	3,343.55	170.97	20.556	
14,000.00	7,618.00	12,804.84	7,698.83	92.17	89.72	91.51	-3,720.07	-308.94	3,513.47	3,338.80	174.67	20.115	
14,100.00	7,618.00	12,873.00	7,700.71	93.59	90.86	91.54	-3,788.21	-308.79	3,512.94	3,335.88	177.06	19.841	
14,105.29	7,618.00	12,873.00	7,700.71	93.67	90.86	91.54	-3,788.21	-308.79	3,512.94	3,335.85	177.09	19.837	
14,200.00	7,618.00	12,955.13	7,704.29	95.02	92.23	91.60	-3,870.26	-309.15	3,513.14	3,333.31	179.83	19.536	
14,300.00	7,618.00	13,118.35	7,711.03	96.47	94.98	91.71	-4,033.34	-308.93	3,512.90	3,328.09	184.81	19.008	
14,400.00	7,618.00	13,232.00	7,714.38	97.93	96.90	91.77	-4,146.92	-307.21	3,511.12	3,322.66	188.46	18.631	
14,500.00	7,618.00	13,338.20	7,716.49	99.41	98.69	91.80	-4,253.08	-305.41	3,509.15	3,317.23	191.91	18.285	
14,600.00	7,618.00	13,436.35	7,718.04	100.89	100.36	91.83	-4,351.21	-303.81	3,507.23	3,312.07	195.16	17.971	
14,700.00	7,618.00	13,577.50	7,720.09	102.38	102.76	91.87	-4,492.30	-300.23	3,504.28	3,304.71	199.57	17.559	
14,800.00	7,618.00	13,668.68	7,721.11	103.89	104.32	91.88	-4,583.44	-297.76	3,501.27	3,298.62	202.65	17.278	
14,900.00	7,618.00	13,741.12	7,721.88	105.40	105.55	91.90	-4,655.85	-296.11	3,498.71	3,293.49	205.22	17.048	
15,000.00	7,618.00	13,805.02	7,722.62	106.92	106.64	91.91	-4,719.75	-295.29	3,497.14	3,289.59	207.55	16.849	
15,100.00	7,618.00	13,875.00	7,723.49	108.45	107.83	91.93	-4,789.72	-295.18	3,496.63	3,286.60	210.04	16.648	
15,106.75	7,618.00	13,875.00	7,723.49	108.56	107.83	91.93	-4,789.72	-295.18	3,496.63	3,286.56	210.07	16.645	
15,200.00	7,618.00	13,934.26	7,724.27	109.99	108.83	91.94	-4,848.97	-295.69	3,497.12	3,284.93	212.20	16.481	
15,300.00	7,618.00	14,199.03	7,722.34	111.54	113.35	91.91	-5,113.67	-293.68	3,496.44	3,276.34	220.10	15.886	
15,400.00	7,618.00	14,285.68	7,719.42	113.09	114.84	91.86	-5,200.21	-290.69	3,492.59	3,269.51	223.08	15.656	
15,500.00	7,618.00	14,351.48	7,717.22	114.65	115.97	91.83	-5,265.96	-289.13	3,489.75	3,264.25	225.50	15.476	
15,600.00	7,618.00	14,420.73	7,714.95	116.21	117.16	91.79	-5,335.16	-288.08	3,487.80	3,259.81	227.99	15.298	
15,700.00	7,618.00	14,485.89	7,712.82	117.78	118.28	91.76	-5,400.29	-287.72	3,486.80	3,256.45	230.35	15.137	
15,747.48	7,618.00	14,516.09	7,711.84	118.53	118.79	91.74	-5,430.48	-287.78	3,486.68	3,255.24	231.45	15.065	
15,800.00	7,618.00	14,548.89	7,710.76	119.36	119.35	91.72	-5,463.26	-288.01	3,486.83	3,254.20	232.63	14.989	
15,900.00	7,618.00	14,614.30	7,708.60	120.94	120.47	91.69	-5,528.62	-289.02	3,487.92	3,252.97	234.96	14.845	
16,000.00	7,618.00	14,677.00	7,706.63	122.53	121.54	91.65	-5,591.27	-290.50	3,489.92	3,252.74	237.18	14.714	
16,100.00	7,618.00	14,748.64	7,704.61	124.12	122.75	91.62	-5,662.84	-292.87	3,492.84	3,253.19	239.65	14.575	
16,200.00	7,618.00	14,809.79	7,703.11	125.72	123.79	91.59	-5,723.92	-295.55	3,496.82	3,255.04	241.78	14.463	
16,300.00	7,618.00	14,872.75	7,701.71	127.32	124.85	91.57	-5,786.76	-299.03	3,501.93	3,257.98	243.94	14.355	
16,400.00	7,618.00	14,944.00	7,700.62	128.93	126.05	91.55	-5,857.86	-303.56	3,507.92	3,261.57	246.35	14.239	
16,500.00	7,618.00	15,021.18	7,700.17	130.54	127.35	91.54	-5,934.85	-309.02	3,514.64	3,265.69	248.95	14.118	
16,600.00	7,618.00	15,096.90	7,700.55	132.15	128.62	91.54	-6,010.34	-314.87	3,522.04	3,270.55	251.49	14.005	
16,700.00	7,618.00	15,209.53	7,702.49	133.77	130.51	91.57	-6,122.59	-323.88	3,529.77	3,274.49	255.27	13.827	
16,800.00	7,618.00	15,388.51	7,707.66	135.39	133.54	91.65	-6,301.11	-335.62	3,536.10	3,274.85	261.26	13.535	
16,900.00	7,618.00	16,900.00	7,726.43	137.01	159.79	91.95	-6,709.74	-340.45	3,537.74	3,244.65	293.09	12.070	
17,000.00	7,618.00	15,967.01	7,732.36	138.64	143.54	92.05	-6,878.68	-332.29	3,532.38	3,253.21	279.16	12.653	
17,100.00	7,618.00	16,047.18	7,734.12	140.27	144.95	92.08	-6,958.73	-328.23	3,527.07	3,244.98	282.09	12.503	
17,200.00	7,618.00	16,120.65	7,735.35	141.91	146.23	92.11	-7,032.12	-325.05	3,522.45	3,237.63	284.83	12.367	
17,300.00	7,618.00	16,191.00	7,736.45	143.55	147.46	92.13	-7,102.41	-322.51	3,518.59	3,231.13	287.47	12.240	
17,400.00	7,618.00	16,264.05	7,737.60	145.19	148.73	92.15	-7,175.43	-320.47	3,515.54	3,225.38	290.16	12.116	
17,500.00	7,618.00	16,336.68	7,738.76	146.83	150.00	92.17	-7,248.03	-319.05	3,513.30	3,220.48	292.82	11.998	
17,600.00	7,618.00	16,408.42	7,739.95	148.48	151.24	92.19	-7,319.76	-318.20	3,511.84	3,216.39	295.45	11.887	
17,700.00	7,618.00	16,493.15	7,741.41	150.13	152.71	92.21	-7,404.47	-317.87	3,511.15	3,212.72	298.43	11.765	
17,800.00	7,618.00	16,620.52	7,743.72	151.78	154.93	92.25	-7,531.81	-316.97	3,510.19	3,207.52	302.67	11.597	
17,900.00	7,618.00	16,737.15	7,745.57	153.43	156.96	92.28	-7,648.42	-315.36	3,508.53	3,201.94	306.59	11.444	
18,000.00	7,618.00	16,846.24	7,747.14	155.09	158.86	92.31	-7,757.48	-313.45	3,506.49	3,196.20	310.30	11.300	
18,100.00	7,618.00	16,946.25	7,748.55	156.75	160.61	92.33	-7,857.46	-311.60	3,504.37	3,190.62	313.74	11.169	
18,200.00	7,618.00	17,053.46	7,750.03	158.41	162.48	92.36	-7,964.65	-309.56	3,502.19	3,184.79	317.40	11.034	
18,300.00	7,618.00	17,167.30	7,751.76	160.07	164.47	92.39	-8,078.44	-307.00	3,499.66	3,178.41	321.24	10.894	
18,400.00	7,618.00	17,271.38	7,752.75	161.74	166.29	92.41	-8,182.48	-304.35	3,496.81	3,172.00	324.81	10.766	
18,500.00	7,618.00	17,350.00	7,752.78	163.41	167.66	92.41	-8,261.09	-302.63	3,494.29	3,166.63	327.66	10.664	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,600.00	7,618.00	17,427.76	7,752.39	165.08	169.02	92.40	-8,338.84	-301.51	3,492.46	3,161.98	330.48	10.568	
18,700.00	7,618.00	17,487.00	7,752.00	166.75	170.05	92.40	-8,398.07	-300.77	3,491.10	3,158.37	332.73	10.492	
18,711.30	7,618.00	17,487.00	7,752.00	166.94	170.05	92.40	-8,398.07	-300.77	3,491.07	3,158.29	332.77	10.491	SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-52.39	786.52	-1,020.86	1,288.76				
100.00	100.00	91.11	91.11	0.13	0.14	-52.38	786.51	-1,020.72	1,288.60	1,288.33	0.27	4,754.813	
200.00	200.00	191.42	191.42	0.49	0.39	-52.38	786.47	-1,020.36	1,288.29	1,287.41	0.88	1,460.191	
300.00	300.00	288.84	288.84	0.85	0.73	-52.38	786.26	-1,020.32	1,288.12	1,286.54	1.58	814.790	
332.35	332.35	320.35	320.35	0.97	0.84	-52.39	786.16	-1,020.39	1,288.11	1,286.30	1.81	712.876	CC
400.00	400.00	383.25	383.24	1.21	1.06	-52.40	786.04	-1,020.62	1,288.24	1,285.97	2.27	567.904	
500.00	500.00	476.37	476.36	1.57	1.38	-52.41	786.27	-1,021.20	1,288.88	1,285.92	2.95	436.753	
600.00	600.00	569.48	569.47	1.93	1.71	-52.40	786.95	-1,022.04	1,290.05	1,286.41	3.63	355.043	
700.00	700.00	668.52	668.48	2.29	2.05	-52.33	789.15	-1,022.24	1,291.56	1,287.22	4.34	297.832	
800.00	800.00	786.31	785.95	2.64	2.47	-51.97	796.36	-1,018.03	1,292.51	1,287.40	5.11	252.889	
900.00	900.00	926.79	925.32	3.00	2.99	-51.19	808.91	-1,005.79	1,291.25	1,285.27	5.99	215.690	
1,000.00	999.98	1,022.31	1,019.89	3.36	3.35	-107.90	817.62	-995.52	1,289.17	1,282.46	6.71	192.151	
1,088.65	1,088.51	1,105.43	1,102.09	3.67	3.68	-107.55	825.84	-986.37	1,288.55	1,281.20	7.35	175.298	
1,100.00	1,099.84	1,116.21	1,112.75	3.71	3.73	-107.51	826.95	-985.17	1,288.56	1,281.13	7.43	173.334	
1,200.00	1,199.45	1,216.23	1,211.65	4.07	4.13	-107.21	837.20	-974.35	1,289.40	1,281.21	8.20	157.318	
1,300.00	1,298.70	1,345.33	1,338.89	4.44	4.68	-106.91	851.34	-957.81	1,290.29	1,281.19	9.10	141.793	
1,335.38	1,333.71	1,385.43	1,378.19	4.57	4.85	-106.81	856.14	-951.45	1,290.23	1,280.82	9.41	137.148	
1,400.00	1,397.47	1,443.98	1,435.48	4.82	5.11	-106.68	863.59	-941.95	1,290.59	1,280.68	9.92	130.146	ES
1,500.00	1,495.62	1,524.62	1,514.29	5.22	5.48	-106.54	874.78	-929.04	1,292.92	1,282.23	10.69	120.989	
1,600.00	1,593.06	1,599.82	1,587.74	5.65	5.84	-106.44	886.30	-917.77	1,297.95	1,286.49	11.46	113.281	
1,700.00	1,689.64	1,695.51	1,681.23	6.11	6.28	-106.46	901.87	-904.62	1,305.50	1,293.14	12.35	105.673	
1,800.00	1,785.27	1,822.32	1,805.42	6.61	6.88	-106.77	920.47	-886.95	1,312.94	1,299.52	13.43	97.782	
1,900.00	1,879.82	1,939.90	1,920.80	7.15	7.42	-107.29	934.66	-869.36	1,318.90	1,304.42	14.48	91.067	
2,000.00	1,973.17	2,019.04	1,998.68	7.73	7.78	-107.73	943.68	-858.54	1,326.75	1,311.35	15.40	86.153	
2,100.00	2,065.21	2,098.19	2,076.62	8.37	8.14	-108.24	953.33	-848.71	1,337.34	1,320.99	16.35	81.781	
2,200.00	2,155.84	2,181.69	2,158.85	9.07	8.51	-108.83	964.16	-839.00	1,350.47	1,333.10	17.37	77.762	
2,300.00	2,244.94	2,268.68	2,244.47	9.82	8.91	-109.51	976.09	-829.41	1,366.04	1,347.60	18.44	74.077	
2,400.00	2,332.39	2,412.55	2,385.75	10.64	9.58	-110.92	996.05	-810.96	1,382.13	1,362.28	19.84	69.650	
2,500.00	2,418.11	2,499.13	2,470.69	11.53	9.98	-111.73	1,006.97	-798.29	1,397.87	1,376.86	21.01	66.528	
2,558.91	2,467.74	2,541.87	2,512.70	12.08	10.18	-112.12	1,012.39	-792.59	1,408.66	1,386.99	21.68	64.990	
2,600.00	2,502.13	2,571.38	2,541.74	12.47	10.31	-112.55	1,016.15	-788.88	1,416.79	1,394.65	22.14	63.995	
2,700.00	2,585.83	2,676.41	2,645.10	13.45	10.80	-114.04	1,029.56	-775.94	1,437.36	1,413.93	23.43	61.352	
2,800.00	2,669.53	2,811.92	2,777.81	14.44	11.45	-115.80	1,047.72	-755.51	1,456.83	1,431.95	24.88	58.557	
2,900.00	2,753.22	2,923.79	2,887.43	15.46	11.98	-117.27	1,059.58	-736.60	1,474.03	1,447.84	26.19	56.274	
3,000.00	2,836.92	3,022.97	2,984.45	16.48	12.46	-118.51	1,070.84	-719.39	1,492.02	1,464.57	27.45	54.353	
3,100.00	2,920.62	3,091.95	3,051.84	17.52	12.80	-119.34	1,079.14	-707.25	1,510.78	1,482.22	28.56	52.901	
3,200.00	3,004.32	3,154.42	3,113.32	18.56	13.09	-120.15	1,085.61	-698.29	1,532.17	1,502.57	29.60	51.762	
3,300.00	3,088.01	3,227.79	3,185.52	19.61	13.43	-121.05	1,094.28	-688.52	1,555.66	1,524.99	30.67	50.724	
3,400.00	3,171.71	3,330.20	3,285.94	20.67	13.92	-122.20	1,108.50	-674.33	1,580.03	1,548.13	31.90	49.531	
3,500.00	3,255.41	3,432.84	3,386.37	21.73	14.42	-123.30	1,123.02	-658.89	1,603.96	1,570.83	33.13	48.413	
3,600.00	3,339.10	3,515.59	3,467.35	22.80	14.82	-124.15	1,134.93	-646.71	1,628.74	1,594.50	34.24	47.568	
3,700.00	3,422.80	3,600.90	3,550.92	23.87	15.23	-125.02	1,146.95	-634.55	1,654.30	1,618.96	35.34	46.807	
3,800.00	3,506.50	3,685.61	3,634.11	24.94	15.64	-125.89	1,158.42	-623.43	1,681.12	1,644.70	36.42	46.162	
3,900.00	3,590.20	3,798.85	3,745.12	26.02	16.18	-127.00	1,173.67	-607.08	1,707.11	1,669.47	37.64	45.350	
4,000.00	3,673.89	3,874.53	3,819.27	27.10	16.54	-127.71	1,184.43	-596.38	1,734.09	1,695.44	38.65	44.868	
4,100.00	3,757.59	3,953.14	3,896.51	28.18	16.91	-128.46	1,194.81	-586.16	1,762.24	1,722.60	39.64	44.454	
4,200.00	3,841.29	4,035.74	3,977.92	29.26	17.29	-129.26	1,204.73	-576.27	1,791.43	1,750.81	40.62	44.099	
4,300.00	3,924.99	4,163.95	4,104.14	30.35	17.88	-130.46	1,220.19	-560.00	1,820.44	1,778.59	41.85	43.496	
4,400.00	4,008.68	4,286.99	4,224.59	31.44	18.48	-131.47	1,237.47	-541.82	1,848.44	1,805.35	43.08	42.902	
4,500.00	4,092.38	4,376.35	4,311.82	32.52	18.93	-132.17	1,250.14	-527.16	1,875.19	1,831.07	44.12	42.499	
4,600.00	4,176.08	4,460.03	4,393.72	33.62	19.34	-132.82	1,261.72	-514.47	1,903.27	1,858.16	45.11	42.191	
4,700.00	4,259.77	4,563.71	4,495.14	34.71	19.85	-133.61	1,276.04	-498.41	1,931.37	1,885.17	46.20	41.802	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,800.00	4,343.47	4,637.40	4,567.20	35.80	20.21	-134.15	1,286.33	-486.97	1,959.78	1,912.67	47.11	41.600	
4,900.00	4,427.17	4,713.31	4,641.70	36.89	20.58	-134.71	1,296.42	-476.37	1,989.70	1,941.69	48.01	41.448	
5,000.00	4,510.87	4,823.63	4,749.94	37.99	21.11	-135.52	1,310.91	-460.78	2,019.78	1,970.68	49.09	41.142	
5,100.00	4,594.56	4,922.91	4,847.01	39.08	21.60	-136.17	1,325.32	-445.71	2,049.30	1,999.17	50.13	40.876	
5,200.00	4,678.26	5,032.80	4,954.24	40.18	22.15	-136.85	1,342.14	-428.58	2,078.77	2,027.52	51.25	40.561	
5,300.00	4,761.96	5,083.29	5,003.59	41.28	22.40	-137.16	1,349.66	-420.96	2,108.88	2,056.91	51.97	40.575	
5,400.00	4,845.66	5,138.63	5,057.99	42.37	22.66	-137.53	1,356.95	-413.93	2,141.11	2,088.42	52.69	40.638	
5,500.00	4,929.35	5,231.01	5,149.02	43.47	23.08	-138.16	1,368.04	-402.85	2,174.19	2,120.59	53.60	40.562	
5,600.00	5,013.05	5,355.07	5,271.27	44.57	23.65	-138.98	1,382.83	-387.71	2,207.48	2,152.78	54.70	40.354	
5,700.00	5,096.75	5,532.16	5,444.43	45.67	24.52	-140.02	1,406.09	-359.06	2,236.59	2,180.45	56.15	39.835	
5,800.00	5,180.45	5,616.25	5,526.20	46.77	24.96	-140.44	1,419.33	-344.59	2,265.71	2,208.64	57.07	39.699	
5,900.00	5,264.14	5,697.74	5,605.85	47.87	25.37	-140.90	1,429.85	-330.96	2,295.28	2,237.35	57.94	39.618	
6,000.00	5,347.84	5,777.62	5,684.18	48.97	25.75	-141.36	1,439.04	-318.27	2,325.72	2,266.97	58.76	39.583	
6,100.00	5,431.54	5,879.88	5,784.44	50.07	26.25	-141.95	1,450.87	-302.08	2,356.45	2,296.75	59.70	39.472	
6,200.00	5,515.23	5,950.15	5,852.97	51.17	26.60	-142.28	1,461.41	-290.63	2,387.13	2,326.64	60.49	39.462	
6,300.00	5,598.93	5,989.05	5,891.05	52.27	26.79	-142.47	1,467.12	-285.11	2,419.81	2,358.76	61.06	39.631	
6,400.00	5,682.63	6,047.82	5,948.87	53.38	27.06	-142.76	1,474.93	-278.10	2,454.56	2,392.84	61.72	39.769	
6,500.00	5,766.33	6,500.00	6,072.49	54.48	29.14	-143.43	1,489.63	-262.47	2,489.05	2,424.89	64.15	38.799	
6,600.00	5,850.02	6,311.18	6,207.67	55.58	28.30	-144.08	1,507.68	-242.25	2,521.35	2,457.38	63.98	39.410	
6,700.00	5,933.72	6,371.00	6,266.40	56.68	28.59	-144.37	1,515.35	-233.83	2,554.64	2,489.99	64.65	39.517	
6,800.00	6,017.42	6,468.23	6,361.95	57.79	29.05	-144.82	1,527.66	-220.72	2,588.66	2,523.11	65.55	39.493	
6,900.00	6,101.12	6,623.47	6,514.18	58.89	29.80	-145.52	1,547.06	-197.33	2,621.24	2,554.43	66.81	39.235	
7,000.00	6,184.81	6,689.43	6,578.75	59.99	30.12	-145.81	1,555.53	-186.90	2,653.37	2,585.86	67.52	39.299	
7,100.00	6,268.51	6,758.94	6,646.75	61.10	30.46	-146.07	1,565.94	-176.89	2,686.79	2,618.53	68.26	39.359	
7,200.00	6,352.21	6,871.14	6,756.50	62.20	31.02	-146.48	1,582.77	-160.76	2,720.38	2,651.08	69.30	39.253	
7,300.00	6,435.90	7,221.65	7,098.22	63.31	32.57	-148.58	1,593.13	-91.55	2,749.52	2,678.66	70.85	38.806	
7,400.00	6,519.60	7,263.00	7,137.67	64.41	32.71	-148.99	1,585.79	-81.60	2,775.20	2,703.96	71.24	38.958	
7,500.00	6,603.30	7,263.00	7,137.67	65.51	32.71	-148.99	1,585.79	-81.60	2,803.71	2,732.11	71.60	39.156	
7,600.00	6,687.00	7,309.49	7,182.09	66.62	32.83	-149.48	1,576.27	-71.76	2,833.94	2,762.07	71.87	39.431	
7,700.00	6,770.69	7,352.00	7,223.08	67.72	32.94	-149.91	1,567.49	-64.71	2,867.53	2,795.42	72.12	39.763	
7,800.00	6,854.39	7,352.00	7,223.08	68.83	32.94	-149.91	1,567.49	-64.71	2,902.94	2,830.62	72.32	40.141	
7,900.00	6,938.09	7,436.25	7,304.38	69.93	33.12	-150.78	1,549.12	-52.43	2,940.24	2,867.73	72.52	40.545	
7,933.18	6,965.86	7,467.35	7,334.24	70.30	33.19	-151.11	1,541.75	-47.78	2,952.71	2,880.14	72.57	40.685	
7,950.00	6,980.00	7,483.15	7,349.33	70.49	33.22	-154.28	1,537.76	-45.39	2,959.05	2,886.45	72.60	40.758	
8,000.00	7,022.68	7,530.70	7,394.47	71.01	33.32	-164.33	1,524.77	-38.03	2,977.89	2,905.22	72.67	40.979	
8,050.00	7,066.06	7,798.00	7,629.23	71.51	33.72	-177.43	1,411.97	17.07	2,994.00	2,922.02	71.98	41.595	
8,100.00	7,109.82	7,825.81	7,651.18	71.97	33.74	171.65	1,396.37	24.02	3,009.29	2,937.31	71.97	41.812	
8,150.00	7,153.63	7,839.90	7,662.06	72.38	33.75	160.87	1,388.08	27.37	3,024.54	2,952.52	72.02	41.998	
8,200.00	7,197.14	7,854.35	7,673.06	72.74	33.76	150.57	1,379.31	30.69	3,039.54	2,967.49	72.05	42.188	
8,250.00	7,240.04	7,887.00	7,697.24	73.05	33.78	141.01	1,358.53	37.73	3,054.31	2,982.33	71.97	42.436	
8,300.00	7,281.99	7,887.00	7,697.24	73.31	33.78	132.79	1,358.53	37.73	3,068.25	2,996.19	72.06	42.579	
8,350.00	7,322.67	7,887.00	7,697.24	73.52	33.78	125.64	1,358.53	37.73	3,081.78	3,009.64	72.14	42.720	
8,400.00	7,361.77	7,887.00	7,697.24	73.68	33.78	119.51	1,358.53	37.73	3,094.81	3,022.59	72.21	42.856	
8,450.00	7,399.01	7,925.01	7,724.05	73.78	33.77	114.20	1,332.61	45.01	3,106.42	3,034.33	72.09	43.089	
8,500.00	7,434.08	7,938.74	7,733.34	73.85	33.77	109.79	1,322.78	47.37	3,117.46	3,045.37	72.10	43.238	
8,550.00	7,466.74	7,976.00	7,757.43	73.87	33.76	106.07	1,294.93	53.04	3,127.84	3,055.87	71.97	43.457	
8,600.00	7,496.72	7,976.00	7,757.43	73.85	33.76	102.99	1,294.93	53.04	3,136.59	3,064.52	72.08	43.517	
8,650.00	7,523.80	7,976.00	7,757.43	73.79	33.76	100.41	1,294.93	53.04	3,144.45	3,072.25	72.20	43.555	
8,700.00	7,547.77	7,976.00	7,757.43	73.70	33.76	98.28	1,294.93	53.04	3,151.35	3,079.02	72.33	43.567	
8,750.00	7,568.45	8,010.69	7,778.22	73.58	33.72	96.69	1,267.51	57.38	3,156.64	3,084.37	72.28	43.675	
8,800.00	7,585.69	8,025.68	7,786.67	73.43	33.71	95.42	1,255.24	58.99	3,160.88	3,088.52	72.36	43.684	
8,850.00	7,599.35	8,065.00	7,807.24	73.26	33.67	94.65	1,221.91	62.44	3,164.14	3,091.85	72.29	43.769	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,609.33	8,065.00	7,807.24	73.07	33.67	94.02	1,221.91	62.44	3,165.56	3,093.04	72.52	43.648	
8,950.00	7,615.55	8,065.00	7,807.24	72.87	33.67	93.69	1,221.91	62.44	3,165.92	3,093.13	72.79	43.496	
9,000.00	7,617.97	8,065.00	7,807.24	72.65	33.67	93.63	1,221.91	62.44	3,165.21	3,092.14	73.08	43.314	
9,006.60	7,618.00	8,065.00	7,807.24	72.62	33.67	93.65	1,221.91	62.44	3,165.04	3,091.92	73.12	43.287	
9,100.00	7,618.00	8,116.78	7,830.04	72.22	33.57	94.06	1,175.54	65.27	3,162.63	3,089.35	73.29	43.153	
9,175.18	7,618.00	8,154.00	7,842.94	71.90	33.50	94.30	1,140.66	66.11	3,162.36	3,088.91	73.45	43.054	
9,200.00	7,618.00	8,154.00	7,842.94	71.80	33.50	94.30	1,140.66	66.11	3,162.46	3,088.86	73.60	42.965	
9,300.00	7,618.00	8,198.52	7,854.19	71.41	33.39	94.50	1,097.61	66.02	3,164.23	3,090.38	73.85	42.848	
9,400.00	7,618.00	8,255.00	7,861.56	71.04	33.27	94.63	1,041.67	64.52	3,167.57	3,093.60	73.97	42.824	
9,500.00	7,618.00	8,334.84	7,864.92	70.68	33.10	94.69	962.00	61.08	3,171.86	3,097.97	73.89	42.925	
9,600.00	7,618.00	8,681.64	7,860.19	70.35	33.02	94.59	615.51	54.06	3,175.53	3,102.87	72.66	43.706	
9,700.00	7,618.00	8,836.00	7,855.48	70.04	33.61	94.52	461.37	60.81	3,170.09	3,096.95	73.14	43.344	
9,800.00	7,618.00	8,887.45	7,853.73	69.75	33.88	94.49	410.01	63.13	3,165.46	3,091.69	73.77	42.909	
9,900.00	7,618.00	8,925.00	7,852.52	69.47	34.10	94.47	372.48	63.68	3,163.22	3,088.82	74.40	42.515	
9,943.36	7,618.00	8,925.00	7,852.52	69.36	34.10	94.47	372.48	63.68	3,162.92	3,088.26	74.66	42.363	
10,000.00	7,618.00	8,955.86	7,851.60	69.22	34.29	94.45	341.63	63.50	3,163.04	3,087.98	75.05	42.143	
10,100.00	7,618.00	9,014.00	7,850.20	68.99	34.66	94.43	283.54	61.85	3,164.99	3,089.20	75.79	41.760	
10,200.00	7,618.00	9,053.75	7,849.38	68.78	34.92	94.41	243.84	60.10	3,168.40	3,091.89	76.52	41.409	
10,300.00	7,618.00	9,154.29	7,847.21	68.59	35.66	94.36	143.43	55.36	3,172.60	3,095.07	77.53	40.919	
10,400.00	7,618.00	9,281.64	7,844.43	68.42	36.71	94.31	16.22	50.13	3,176.19	3,097.32	78.87	40.271	
10,500.00	7,618.00	9,392.67	7,842.01	68.28	37.72	94.26	-94.72	46.27	3,179.16	3,098.86	80.30	39.592	
10,600.00	7,618.00	9,489.58	7,839.89	68.16	38.67	94.22	-191.55	43.09	3,181.94	3,100.20	81.74	38.928	
10,700.00	7,618.00	9,945.50	7,828.66	68.06	43.89	94.03	-646.83	50.90	3,181.32	3,093.29	88.03	36.137	
10,800.00	7,618.00	10,039.17	7,826.70	67.99	45.10	94.00	-740.21	57.96	3,173.31	3,083.28	90.03	35.246	
10,900.00	7,618.00	10,261.00	7,821.54	67.95	48.12	93.94	-960.67	81.58	3,160.79	3,066.45	94.34	33.503	
11,000.00	7,618.00	10,317.78	7,819.94	67.95	48.92	93.92	-1,017.04	88.17	3,149.05	3,053.14	95.91	32.833	
11,100.00	7,618.00	10,350.00	7,819.01	67.97	49.38	93.90	-1,049.11	91.13	3,139.49	3,042.46	97.03	32.356	
11,200.00	7,618.00	10,388.52	7,817.91	68.04	49.92	93.89	-1,087.52	93.87	3,131.95	3,033.69	98.26	31.874	
11,300.00	7,618.00	10,659.65	7,810.67	68.15	53.82	93.78	-1,357.60	114.78	3,125.46	3,021.34	104.13	30.016	
11,400.00	7,618.00	10,707.00	7,809.35	68.30	54.53	93.76	-1,404.66	119.78	3,114.38	3,008.74	105.64	29.482	
11,500.00	7,618.00	10,782.65	7,807.21	68.50	55.66	93.73	-1,479.95	126.84	3,104.52	2,996.77	107.75	28.812	
11,600.00	7,618.00	10,824.29	7,806.01	68.75	56.28	93.72	-1,521.42	130.31	3,095.83	2,986.69	109.14	28.365	
11,700.00	7,618.00	10,858.45	7,805.04	69.06	56.79	93.70	-1,555.51	132.39	3,089.23	2,978.87	110.36	27.993	
11,800.00	7,618.00	10,885.00	7,804.30	69.44	57.19	93.69	-1,582.02	133.50	3,084.78	2,973.40	111.38	27.695	
11,900.00	7,618.00	10,934.30	7,802.91	69.88	57.91	93.66	-1,631.30	134.58	3,082.26	2,969.36	112.90	27.301	
11,986.57	7,618.00	10,974.00	7,801.78	70.32	58.50	93.64	-1,670.97	134.60	3,081.68	2,967.55	114.13	27.001	
12,000.00	7,618.00	10,974.00	7,801.78	70.39	58.50	93.64	-1,670.97	134.60	3,081.71	2,967.53	114.18	26.991	
12,100.00	7,618.00	11,008.86	7,800.78	70.97	59.00	93.62	-1,705.81	133.91	3,083.19	2,967.87	115.32	26.736	
12,200.00	7,618.00	11,063.00	7,799.28	71.63	59.78	93.59	-1,759.87	131.34	3,086.99	2,970.09	116.90	26.407	
12,300.00	7,618.00	11,063.00	7,799.28	72.35	59.78	93.59	-1,759.87	131.34	3,092.64	2,975.51	117.13	26.403	
12,400.00	7,618.00	11,114.23	7,797.95	73.15	60.50	93.56	-1,810.92	127.30	3,100.33	2,981.74	118.59	26.144	
12,500.00	7,618.00	11,152.00	7,797.06	74.01	61.04	93.54	-1,848.47	123.38	3,110.17	2,990.49	119.68	25.986	
12,600.00	7,618.00	11,865.00	7,801.09	74.93	71.87	93.61	-2,558.49	116.11	3,109.19	2,970.88	138.31	22.480	
12,700.00	7,618.00	11,927.82	7,801.40	75.91	72.90	93.62	-2,621.09	121.41	3,100.65	2,960.24	140.42	22.082	
12,800.00	7,618.00	11,996.80	7,801.92	76.95	74.02	93.64	-2,689.91	125.96	3,093.70	2,951.02	142.68	21.683	
12,900.00	7,618.00	12,085.08	7,802.78	78.04	75.46	93.66	-2,778.02	131.47	3,087.19	2,941.74	145.45	21.225	
13,000.00	7,618.00	12,183.10	7,803.68	79.16	77.06	93.69	-2,875.87	137.19	3,081.10	2,932.60	148.50	20.748	
13,100.00	7,618.00	12,292.81	7,804.68	80.33	78.86	93.71	-2,985.37	143.93	3,074.67	2,922.79	151.88	20.244	
13,200.00	7,618.00	12,389.48	7,805.51	81.54	80.45	93.74	-3,081.84	149.97	3,068.16	2,913.24	154.93	19.804	
13,300.00	7,618.00	12,511.22	7,806.53	82.78	82.47	93.77	-3,203.32	157.88	3,061.40	2,902.73	158.68	19.293	
13,400.00	7,618.00	12,676.36	7,807.55	84.05	85.23	93.80	-3,367.96	170.51	3,053.65	2,890.04	163.62	18.664	
13,500.00	7,618.00	12,756.00	7,807.58	85.35	86.57	93.81	-3,447.21	178.42	3,043.67	2,877.39	166.28	18.305	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,600.00	7,618.00	12,810.55	7,807.69	86.67	87.49	93.82	-3,501.55	183.26	3,035.08	2,866.83	168.25	18.039	
13,700.00	7,618.00	12,845.00	7,807.89	88.02	88.07	93.83	-3,535.94	185.18	3,029.07	2,859.46	169.62	17.858	
13,800.00	7,618.00	12,874.31	7,808.12	89.38	88.55	93.83	-3,565.24	186.16	3,025.30	2,854.53	170.77	17.716	
13,900.00	7,618.00	12,934.00	7,808.64	90.77	89.53	93.84	-3,624.92	186.42	3,024.07	2,851.30	172.77	17.503	
14,000.00	7,618.00	13,100.54	7,809.15	92.17	92.28	93.86	-3,791.42	188.76	3,022.83	2,844.87	177.96	16.986	
14,100.00	7,618.00	13,183.48	7,809.33	93.59	93.66	93.86	-3,874.32	191.30	3,019.47	2,838.78	180.69	16.711	
14,200.00	7,618.00	13,281.20	7,809.76	95.02	95.29	93.87	-3,972.01	193.79	3,016.62	2,832.76	183.86	16.407	
14,300.00	7,618.00	13,343.62	7,810.06	96.47	96.33	93.88	-4,034.42	195.08	3,014.28	2,828.31	185.97	16.208	
14,400.00	7,618.00	13,438.74	7,810.41	97.93	97.92	93.89	-4,129.53	195.90	3,013.10	2,824.02	189.07	15.936	
14,500.00	7,618.00	13,588.40	7,810.96	99.41	100.43	93.91	-4,279.15	199.18	3,010.50	2,816.64	193.86	15.529	
14,600.00	7,618.00	13,668.26	7,810.97	100.89	101.77	93.91	-4,358.98	201.27	3,007.58	2,811.05	196.53	15.304	
14,700.00	7,618.00	13,736.00	7,811.11	102.38	102.91	93.91	-4,426.72	202.21	3,005.80	2,806.99	198.81	15.119	
14,800.00	7,618.00	13,807.12	7,811.47	103.89	104.10	93.92	-4,497.83	202.48	3,005.05	2,803.87	201.18	14.937	
14,849.38	7,618.00	13,840.86	7,811.69	104.63	104.66	93.93	-4,531.58	202.47	3,004.93	2,802.63	202.30	14.854	
14,900.00	7,618.00	13,869.19	7,811.92	105.40	105.13	93.93	-4,559.90	202.26	3,005.16	2,801.92	203.24	14.786	
15,000.00	7,618.00	14,051.52	7,815.06	106.92	108.19	93.99	-4,742.18	202.46	3,005.01	2,795.83	209.18	14.366	
15,100.00	7,618.00	14,132.12	7,816.89	108.45	109.55	94.03	-4,822.75	203.53	3,003.49	2,791.60	211.89	14.175	
15,200.00	7,618.00	14,237.70	7,819.77	109.99	111.34	94.08	-4,928.28	204.67	3,002.27	2,786.88	215.39	13.939	
15,300.00	7,618.00	14,573.86	7,828.35	111.54	117.11	94.27	-5,263.85	219.98	2,999.20	2,773.39	225.81	13.282	
15,400.00	7,618.00	14,654.16	7,830.27	113.09	118.51	94.32	-5,343.79	227.33	2,989.97	2,761.33	228.64	13.077	
15,500.00	7,618.00	14,717.00	7,831.74	114.65	119.60	94.35	-5,406.43	232.08	2,982.14	2,751.17	230.97	12.912	
15,600.00	7,618.00	14,744.43	7,832.37	116.21	120.07	94.37	-5,433.81	233.65	2,976.01	2,743.82	232.19	12.817	
15,700.00	7,618.00	14,779.02	7,833.17	117.78	120.67	94.39	-5,468.37	234.95	2,972.10	2,738.58	233.51	12.728	
15,800.00	7,618.00	15,011.85	7,835.99	119.36	124.70	94.46	-5,700.78	247.18	2,966.03	2,725.08	240.95	12.310	
15,900.00	7,618.00	15,073.00	7,836.36	120.94	125.76	94.47	-5,761.83	250.68	2,959.79	2,716.59	243.19	12.171	
16,000.00	7,618.00	15,098.77	7,836.59	122.53	126.20	94.48	-5,787.59	251.67	2,955.22	2,710.94	244.28	12.098	
16,100.00	7,618.00	15,162.00	7,837.18	124.12	127.28	94.49	-5,850.80	252.74	2,952.94	2,706.46	246.47	11.981	
16,165.97	7,618.00	15,162.00	7,837.18	125.17	127.28	94.49	-5,850.80	252.74	2,952.20	2,705.71	246.49	11.977	
16,200.00	7,618.00	15,162.00	7,837.18	125.72	127.28	94.49	-5,850.80	252.74	2,952.39	2,705.93	246.46	11.979	
16,300.00	7,618.00	15,216.98	7,837.68	127.32	128.21	94.50	-5,905.77	251.98	2,953.87	2,705.66	248.22	11.900	
16,400.00	7,618.00	15,251.00	7,837.97	128.93	128.78	94.50	-5,939.76	250.64	2,957.61	2,708.47	249.14	11.871	
16,500.00	7,618.00	15,312.80	7,838.45	130.54	129.81	94.51	-6,001.46	247.13	2,963.06	2,712.04	251.02	11.804	
16,600.00	7,618.00	15,426.69	7,839.35	132.15	131.70	94.51	-6,115.09	239.55	2,969.48	2,714.58	254.90	11.650	
16,700.00	7,618.00	15,502.34	7,839.88	133.77	132.96	94.52	-6,190.59	234.72	2,975.58	2,718.28	257.30	11.565	
16,800.00	7,618.00	15,597.08	7,840.23	135.39	134.53	94.51	-6,285.09	228.07	2,982.26	2,721.82	260.44	11.451	
16,900.00	7,618.00	15,659.05	7,840.52	137.01	135.56	94.51	-6,346.89	223.40	2,989.52	2,727.24	262.28	11.398	
17,000.00	7,618.00	15,697.00	7,840.87	138.64	136.19	94.52	-6,384.69	220.09	2,998.29	2,735.20	263.09	11.396	
17,100.00	7,618.00	15,748.41	7,841.36	140.27	137.02	94.52	-6,435.81	214.67	3,008.80	2,744.42	264.38	11.381	
17,200.00	7,618.00	16,320.00	7,845.87	141.91	146.63	94.58	-7,002.46	198.37	3,005.50	2,720.42	285.08	10.543	
17,300.00	7,618.00	16,320.00	7,845.87	143.55	146.63	94.58	-7,002.46	198.37	3,003.24	2,718.00	285.25	10.529	
17,317.80	7,618.00	16,320.00	7,845.87	143.84	146.63	94.58	-7,002.46	198.37	3,003.19	2,717.95	285.25	10.528	
17,400.00	7,618.00	16,320.00	7,845.87	145.19	146.63	94.58	-7,002.46	198.37	3,004.32	2,719.19	285.12	10.537	
17,500.00	7,618.00	16,320.00	7,845.87	146.83	146.63	94.58	-7,002.46	198.37	3,008.71	2,724.00	284.71	10.567	
17,600.00	7,618.00	16,371.40	7,845.66	148.48	147.49	94.57	-7,053.78	195.87	3,014.35	2,728.20	286.14	10.534	
17,700.00	7,618.00	16,409.00	7,845.52	150.13	148.11	94.57	-7,091.18	191.97	3,023.52	2,736.59	286.93	10.538	
17,800.00	7,618.00	16,438.55	7,845.44	151.78	148.60	94.56	-7,120.50	188.27	3,034.76	2,747.51	287.24	10.565	
17,900.00	7,618.00	16,558.01	7,845.11	153.43	150.56	94.53	-7,239.10	174.01	3,046.27	2,754.81	291.45	10.452	
18,000.00	7,618.00	16,647.85	7,843.83	155.09	152.03	94.49	-7,328.29	163.31	3,057.70	2,763.33	294.37	10.387	
18,100.00	7,618.00	16,773.43	7,840.61	156.75	154.09	94.41	-7,452.93	148.28	3,069.16	2,770.31	298.85	10.270	
18,200.00	7,618.00	16,874.07	7,837.34	158.41	155.75	94.33	-7,552.86	136.83	3,079.92	2,777.68	302.24	10.190	
18,300.00	7,618.00	16,968.73	7,833.51	160.07	157.32	94.25	-7,646.80	125.85	3,090.87	2,785.49	305.38	10.121	
18,400.00	7,618.00	17,082.76	7,828.37	161.74	159.20	94.13	-7,759.99	112.98	3,101.45	2,792.09	309.36	10.025	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,500.00	7,618.00	17,186.80	7,823.03	163.41	160.93	94.02	-7,863.24	101.42	3,111.86	2,798.95	312.91	9.945	
18,600.00	7,618.00	17,303.12	7,816.56	165.08	162.86	93.89	-7,978.70	88.84	3,121.95	2,804.97	316.98	9.849	
18,700.00	7,618.00	17,407.58	7,810.25	166.75	164.60	93.76	-8,082.38	77.86	3,131.73	2,811.18	320.55	9.770	
18,711.30	7,618.00	17,422.27	7,809.28	166.94	164.84	93.74	-8,096.96	76.34	3,132.81	2,811.74	321.07	9.757	SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-52.11	786.52	-1,010.78	1,280.79				
100.00	100.00	87.56	87.56	0.13	0.15	-52.12	786.47	-1,010.83	1,280.75	1,280.47	0.28	4,571.294	
200.00	200.00	187.06	187.06	0.49	0.31	-52.13	786.30	-1,011.03	1,280.80	1,280.00	0.80	1,592.527	
300.00	300.00	286.56	286.56	0.85	0.48	-52.15	786.01	-1,011.38	1,280.90	1,279.57	1.33	964.282	
400.00	400.00	384.27	384.27	1.21	0.76	-52.17	785.70	-1,011.84	1,281.08	1,279.10	1.97	648.738	
500.00	500.00	481.16	481.15	1.57	1.11	-52.19	785.68	-1,012.36	1,281.49	1,278.81	2.68	478.595	
600.00	600.00	576.92	576.91	1.93	1.44	-52.18	786.16	-1,012.83	1,282.18	1,278.81	3.37	380.347	
700.00	700.00	733.48	733.37	2.29	1.98	-51.99	788.35	-1,008.56	1,280.92	1,276.66	4.26	300.460	
800.00	800.00	847.01	846.41	2.64	2.38	-51.58	792.43	-999.09	1,276.54	1,271.52	5.02	254.423	
900.00	900.00	948.20	946.74	3.00	2.76	-51.02	799.25	-987.81	1,272.01	1,266.26	5.75	221.237	
1,000.00	999.98	1,055.85	1,052.87	3.36	3.19	-107.60	809.26	-972.86	1,267.63	1,261.11	6.53	194.213	
1,100.00	1,099.84	1,160.91	1,155.75	3.71	3.63	-106.97	821.56	-955.46	1,263.93	1,256.61	7.32	172.629	
1,200.00	1,199.45	1,254.19	1,246.93	4.07	4.05	-106.50	832.95	-939.45	1,261.26	1,253.16	8.09	155.812	
1,300.00	1,298.70	1,354.26	1,344.10	4.44	4.53	-105.99	847.72	-920.71	1,260.14	1,251.20	8.94	141.032	
1,337.55	1,335.86	1,387.39	1,376.07	4.58	4.70	-105.81	853.19	-913.98	1,259.97	1,250.73	9.24	136.319	CC
1,400.00	1,397.47	1,437.73	1,424.59	4.82	4.96	-105.55	861.98	-903.81	1,260.46	1,250.72	9.74	129.427	
1,500.00	1,495.62	1,553.91	1,536.42	5.22	5.57	-105.06	882.76	-880.17	1,262.30	1,251.56	10.74	117.500	
1,596.68	1,589.83	1,677.42	1,655.36	5.64	6.23	-104.78	901.71	-852.81	1,261.72	1,249.92	11.80	106.900	
1,600.00	1,593.06	1,679.87	1,657.72	5.65	6.24	-104.78	902.07	-852.27	1,261.72	1,249.89	11.83	106.652	
1,700.00	1,689.64	1,774.64	1,749.12	6.11	6.76	-104.73	916.80	-832.00	1,262.98	1,250.19	12.79	98.726	
1,800.00	1,785.27	1,915.84	1,884.80	6.61	7.55	-104.83	937.84	-799.11	1,263.36	1,249.32	14.04	89.990	
1,803.80	1,788.88	1,921.43	1,890.16	6.63	7.58	-104.84	938.62	-797.73	1,263.32	1,249.23	14.09	89.669	ES
1,900.00	1,879.82	1,976.72	1,943.43	7.15	7.89	-104.96	946.75	-785.31	1,264.68	1,249.77	14.91	84.816	
2,000.00	1,973.17	2,088.36	2,051.22	7.73	8.51	-105.40	963.17	-761.31	1,268.12	1,252.04	16.08	78.876	
2,100.00	2,065.21	2,173.27	2,133.19	8.37	8.98	-105.82	975.58	-742.99	1,272.40	1,255.25	17.15	74.190	
2,200.00	2,155.84	2,287.05	2,242.85	9.07	9.62	-106.53	992.20	-717.62	1,277.23	1,258.80	18.42	69.325	
2,300.00	2,244.94	2,366.47	2,319.53	9.82	10.06	-107.10	1,003.63	-700.43	1,283.72	1,264.16	19.56	65.636	
2,400.00	2,332.39	2,438.00	2,388.88	10.64	10.45	-107.68	1,014.25	-686.45	1,293.42	1,272.74	20.68	62.544	
2,500.00	2,418.11	2,508.08	2,457.08	11.53	10.81	-108.31	1,024.86	-674.31	1,306.55	1,284.74	21.81	59.901	
2,558.91	2,467.74	2,550.21	2,498.18	12.08	11.02	-108.71	1,031.32	-667.66	1,315.86	1,293.37	22.49	58.501	
2,600.00	2,502.13	2,579.32	2,526.60	12.47	11.17	-109.13	1,035.83	-663.34	1,322.97	1,300.01	22.97	57.598	
2,700.00	2,585.83	2,788.13	2,729.23	13.45	12.28	-111.89	1,066.13	-623.62	1,337.02	1,312.13	24.89	53.713	
2,800.00	2,669.53	2,871.04	2,809.05	14.44	12.76	-112.89	1,077.77	-604.44	1,348.21	1,322.02	26.18	51.488	
2,900.00	2,753.22	2,983.59	2,917.29	15.46	13.41	-114.22	1,093.09	-577.69	1,359.16	1,331.55	27.62	49.217	
3,000.00	2,836.92	3,061.00	2,992.03	16.48	13.85	-115.16	1,103.09	-560.17	1,371.35	1,342.49	28.85	47.526	
3,100.00	2,920.62	3,146.75	3,074.71	17.52	14.33	-116.16	1,115.10	-540.93	1,384.83	1,354.70	30.12	45.975	
3,200.00	3,004.32	3,220.00	3,145.57	18.56	14.74	-117.02	1,125.63	-525.61	1,400.24	1,368.93	31.30	44.730	
3,300.00	3,088.01	3,322.09	3,244.37	19.61	15.31	-118.19	1,140.47	-504.59	1,416.59	1,383.97	32.62	43.427	
3,400.00	3,171.71	3,398.33	3,318.30	20.67	15.72	-119.07	1,151.10	-489.36	1,433.74	1,399.96	33.77	42.453	
3,500.00	3,255.41	3,498.39	3,415.28	21.73	16.27	-120.18	1,165.62	-469.46	1,451.72	1,416.68	35.04	41.430	
3,600.00	3,339.10	3,571.95	3,486.59	22.80	16.67	-120.97	1,176.66	-455.18	1,470.81	1,434.67	36.15	40.689	
3,700.00	3,422.80	3,688.81	3,600.00	23.87	17.30	-122.23	1,193.33	-432.45	1,490.01	1,452.54	37.47	39.763	
3,800.00	3,506.50	3,772.55	3,681.17	24.94	17.76	-123.09	1,205.80	-416.11	1,509.87	1,471.27	38.60	39.112	
3,900.00	3,590.20	3,917.35	3,821.13	26.02	18.58	-124.52	1,227.02	-385.64	1,528.78	1,488.71	40.06	38.157	
4,000.00	3,673.89	4,036.20	3,935.58	27.10	19.26	-125.66	1,242.90	-357.83	1,545.45	1,504.10	41.35	37.371	
4,100.00	3,757.59	4,100.00	3,997.07	28.18	19.62	-126.27	1,251.31	-343.06	1,562.87	1,520.52	42.35	36.906	
4,200.00	3,841.29	4,170.09	4,065.08	29.26	20.01	-126.96	1,260.39	-328.76	1,582.91	1,539.58	43.33	36.530	
4,300.00	3,924.99	4,255.81	4,147.93	30.35	20.48	-127.73	1,273.16	-310.84	1,603.62	1,559.22	44.40	36.118	
4,400.00	4,008.68	4,319.00	4,209.27	31.44	20.83	-128.30	1,282.62	-299.03	1,626.55	1,581.24	45.31	35.899	
4,500.00	4,092.38	4,403.99	4,291.95	32.52	21.28	-129.05	1,295.58	-284.18	1,651.11	1,604.78	46.33	35.641	
4,600.00	4,176.08	4,557.73	4,440.67	33.62	22.13	-130.29	1,319.81	-253.75	1,673.91	1,626.12	47.78	35.031	
4,700.00	4,259.77	4,689.26	4,567.56	34.71	22.88	-131.36	1,338.55	-224.66	1,694.60	1,645.55	49.05	34.547	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,800.00	4,343.47	4,772.52	4,647.71	35.80	23.37	-132.00	1,350.81	-205.70	1,715.04	1,664.97	50.06	34.258	
4,900.00	4,427.17	4,870.27	4,741.87	36.89	23.93	-132.74	1,365.07	-183.66	1,735.98	1,684.84	51.13	33.949	
5,000.00	4,510.87	4,978.32	4,845.81	37.99	24.56	-133.54	1,380.47	-158.50	1,756.38	1,704.13	52.25	33.618	
5,100.00	4,594.56	5,055.78	4,920.32	39.08	25.02	-134.10	1,391.87	-140.63	1,777.39	1,724.20	53.19	33.418	
5,200.00	4,678.26	5,123.53	4,985.71	40.18	25.41	-134.58	1,401.76	-125.96	1,799.96	1,745.91	54.05	33.304	
5,300.00	4,761.96	5,200.34	5,059.95	41.28	25.84	-135.11	1,413.58	-110.19	1,823.96	1,769.02	54.95	33.194	
5,400.00	4,845.66	5,308.86	5,164.92	42.37	26.44	-135.84	1,430.05	-88.17	1,848.41	1,792.38	56.03	32.990	
5,500.00	4,929.35	5,375.59	5,229.68	43.47	26.80	-136.31	1,439.37	-75.04	1,873.45	1,816.64	56.82	32.973	
5,600.00	5,013.05	5,451.98	5,303.96	44.57	27.21	-136.84	1,450.14	-60.84	1,899.81	1,842.16	57.65	32.957	
5,700.00	5,096.75	5,596.85	5,444.39	45.67	28.00	-137.76	1,471.83	-32.64	1,925.73	1,866.81	58.92	32.682	
5,800.00	5,180.45	5,688.68	5,533.24	46.77	28.51	-138.35	1,484.80	-13.45	1,950.35	1,890.50	59.85	32.587	
5,900.00	5,264.14	5,765.99	5,608.28	47.87	28.94	-138.85	1,495.12	2.08	1,975.86	1,915.20	60.66	32.572	
6,000.00	5,347.84	5,864.49	5,704.02	48.97	29.47	-139.48	1,508.07	21.23	2,002.21	1,940.62	61.58	32.513	
6,100.00	5,431.54	5,990.18	5,825.76	50.07	30.16	-140.25	1,524.81	47.60	2,027.18	1,964.52	62.66	32.351	
6,200.00	5,515.23	6,089.91	5,922.28	51.17	30.71	-140.86	1,537.83	69.05	2,051.93	1,988.35	63.58	32.271	
6,300.00	5,598.93	6,165.16	5,995.13	52.27	31.13	-141.30	1,547.80	85.05	2,077.15	2,012.79	64.36	32.274	
6,400.00	5,682.63	6,250.63	6,078.14	53.38	31.60	-141.81	1,558.42	102.43	2,103.37	2,038.20	65.17	32.275	
6,500.00	5,766.33	6,330.54	6,155.63	54.48	32.03	-142.25	1,569.48	118.49	2,130.11	2,064.15	65.96	32.293	
6,600.00	5,850.02	6,457.68	6,278.84	55.58	32.73	-142.90	1,587.98	143.87	2,157.30	2,090.23	67.06	32.168	
6,700.00	5,933.72	6,555.91	6,373.65	56.68	33.29	-143.37	1,602.93	164.73	2,183.25	2,115.25	68.00	32.107	
6,800.00	6,017.42	6,609.94	6,426.02	57.79	33.58	-143.64	1,610.51	175.66	2,210.24	2,141.62	68.62	32.209	
6,900.00	6,101.12	6,753.13	6,564.70	58.89	34.38	-144.34	1,630.75	204.88	2,237.33	2,167.52	69.80	32.051	
7,000.00	6,184.81	6,850.62	6,658.51	59.99	34.95	-144.74	1,647.20	225.70	2,263.57	2,192.81	70.76	31.988	
7,100.00	6,268.51	7,217.49	7,005.15	61.10	36.94	-147.34	1,658.61	328.97	2,279.47	2,207.60	71.87	31.716	
7,200.00	6,352.21	7,260.00	7,043.69	62.20	37.09	-147.97	1,645.47	341.12	2,296.53	2,224.39	72.14	31.834	
7,300.00	6,435.90	7,260.00	7,043.69	63.31	37.09	-147.97	1,645.47	341.12	2,316.56	2,243.95	72.61	31.905	
7,400.00	6,519.60	7,260.00	7,043.69	64.41	37.09	-147.97	1,645.47	341.12	2,340.69	2,267.73	72.95	32.084	
7,500.00	6,603.30	7,307.30	7,086.46	65.51	37.17	-148.72	1,628.62	352.25	2,367.03	2,294.10	72.93	32.456	
7,600.00	6,687.00	7,349.00	7,124.14	66.62	37.24	-149.39	1,612.51	359.91	2,397.59	2,324.71	72.88	32.898	
7,700.00	6,770.69	7,349.00	7,124.14	67.72	37.24	-149.39	1,612.51	359.91	2,430.55	2,357.57	72.98	33.304	
7,800.00	6,854.39	7,349.00	7,124.14	68.83	37.24	-149.39	1,612.51	359.91	2,467.13	2,394.14	72.99	33.802	
7,900.00	6,938.09	7,398.67	7,168.58	69.93	37.27	-150.22	1,591.54	367.11	2,505.89	2,433.17	72.72	34.458	
7,933.18	6,965.86	7,407.18	7,176.12	70.30	37.28	-150.37	1,587.73	368.20	2,519.42	2,446.77	72.66	34.676	
7,950.00	6,980.00	7,411.49	7,179.92	70.49	37.28	-153.52	1,585.78	368.74	2,526.40	2,453.78	72.62	34.788	
8,000.00	7,022.68	7,438.00	7,203.18	71.01	37.30	-163.83	1,573.43	371.79	2,547.64	2,475.17	72.47	35.155	
8,050.00	7,066.06	7,439.57	7,204.55	71.51	37.30	-174.67	1,572.68	371.96	2,569.15	2,496.73	72.42	35.476	
8,100.00	7,109.82	7,474.67	7,234.89	71.97	37.31	173.51	1,555.43	375.73	2,590.82	2,518.59	72.24	35.866	
8,150.00	7,153.63	7,510.56	7,265.34	72.38	37.31	161.73	1,536.85	379.62	2,612.21	2,540.16	72.05	36.256	
8,200.00	7,197.14	7,567.22	7,312.03	72.74	37.31	150.35	1,505.41	386.00	2,633.00	2,561.25	71.76	36.694	
8,250.00	7,240.04	7,626.58	7,358.48	73.05	37.29	139.95	1,469.24	393.52	2,652.60	2,581.18	71.42	37.142	
8,300.00	7,281.99	7,658.84	7,382.47	73.31	37.28	130.95	1,448.10	397.75	2,671.24	2,600.02	71.22	37.506	
8,350.00	7,322.67	7,691.30	7,405.61	73.52	37.26	123.15	1,425.73	401.98	2,688.91	2,617.89	71.02	37.860	
8,400.00	7,361.77	7,720.36	7,425.42	73.68	37.24	116.50	1,404.81	405.73	2,705.48	2,634.63	70.85	38.187	
8,450.00	7,399.01	7,746.99	7,442.75	73.78	37.21	110.85	1,384.88	409.05	2,720.88	2,650.18	70.70	38.486	
8,500.00	7,434.08	7,773.80	7,459.38	73.85	37.19	106.09	1,364.10	412.28	2,735.01	2,664.45	70.55	38.765	
8,550.00	7,466.74	7,794.00	7,471.35	73.87	37.17	102.10	1,347.99	414.64	2,747.77	2,677.30	70.47	38.990	
8,600.00	7,496.72	7,794.00	7,471.35	73.85	37.17	98.77	1,347.99	414.64	2,759.40	2,688.82	70.58	39.098	
8,650.00	7,523.80	7,794.00	7,471.35	73.79	37.17	95.97	1,347.99	414.64	2,769.95	2,699.24	70.71	39.173	
8,700.00	7,547.77	7,829.81	7,491.15	73.70	37.10	93.72	1,318.37	418.04	2,778.34	2,707.76	70.58	39.365	
8,750.00	7,568.45	7,840.85	7,496.86	73.58	37.08	91.88	1,308.94	418.80	2,785.83	2,715.14	70.68	39.414	
8,800.00	7,585.69	7,883.00	7,516.80	73.43	37.01	90.55	1,271.86	420.44	2,792.65	2,722.12	70.52	39.600	
8,850.00	7,599.35	7,883.00	7,516.80	73.26	37.01	89.48	1,271.86	420.44	2,796.78	2,725.98	70.80	39.504	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,609.33	7,883.00	7,516.80	73.07	37.01	88.74	1,271.86	420.44	2,799.61	2,728.49	71.12	39.365	
8,950.00	7,615.55	7,890.92	7,520.24	72.87	36.99	88.36	1,264.73	420.57	2,801.12	2,729.71	71.40	39.229	
9,000.00	7,617.97	7,951.73	7,545.00	72.65	36.86	88.73	1,209.21	421.77	2,800.68	2,729.50	71.18	39.348	
9,006.60	7,618.00	7,959.82	7,548.06	72.62	36.84	88.81	1,201.73	421.97	2,800.45	2,729.30	71.15	39.361	
9,100.00	7,618.00	8,005.23	7,564.44	72.22	36.73	89.15	1,159.38	422.88	2,797.63	2,726.16	71.47	39.142	
9,200.00	7,618.00	8,062.00	7,583.41	71.80	36.61	89.54	1,105.88	422.67	2,796.91	2,725.15	71.75	38.980	
9,208.75	7,618.00	8,062.00	7,583.41	71.77	36.61	89.54	1,105.88	422.67	2,796.89	2,725.06	71.83	38.937	
9,300.00	7,618.00	8,121.55	7,601.80	71.41	36.48	89.91	1,049.25	421.69	2,797.81	2,725.76	72.05	38.830	
9,400.00	7,618.00	8,213.13	7,625.77	71.04	36.29	90.40	960.92	420.23	2,799.20	2,727.11	72.09	38.828	
9,500.00	7,618.00	8,318.82	7,641.32	70.68	36.11	90.72	856.45	418.29	2,800.87	2,728.83	72.04	38.880	
9,600.00	7,618.00	8,401.95	7,648.52	70.35	36.01	90.87	773.65	416.67	2,802.62	2,730.37	72.25	38.789	
9,700.00	7,618.00	8,622.35	7,659.95	70.04	35.99	91.10	553.66	415.98	2,802.80	2,730.72	72.09	38.882	
9,800.00	7,618.00	8,720.86	7,660.25	69.75	36.15	91.11	455.18	417.79	2,800.63	2,727.98	72.65	38.548	
9,900.00	7,618.00	8,820.59	7,660.52	69.47	36.45	91.12	355.47	419.53	2,798.56	2,725.18	73.38	38.138	
10,000.00	7,618.00	8,933.02	7,660.52	69.22	36.95	91.12	243.06	421.72	2,796.27	2,721.97	74.30	37.634	
10,100.00	7,618.00	9,022.21	7,660.35	68.99	37.47	91.11	153.88	423.61	2,793.83	2,718.52	75.30	37.102	
10,200.00	7,618.00	9,137.13	7,660.27	68.78	38.29	91.11	38.98	425.90	2,791.51	2,714.93	76.58	36.453	
10,300.00	7,618.00	9,226.87	7,660.15	68.59	39.03	91.11	-50.73	427.81	2,789.03	2,711.19	77.84	35.830	
10,400.00	7,618.00	9,332.44	7,660.12	68.42	39.99	91.11	-156.29	429.95	2,786.67	2,707.31	79.36	35.115	
10,500.00	7,618.00	9,451.50	7,659.76	68.28	41.18	91.11	-275.30	433.09	2,783.67	2,702.50	81.17	34.294	
10,600.00	7,618.00	9,525.83	7,658.23	68.16	41.96	91.08	-349.59	435.06	2,780.71	2,698.15	82.56	33.680	
10,700.00	7,618.00	9,586.17	7,656.67	68.06	42.62	91.04	-409.90	435.75	2,779.15	2,695.34	83.81	33.159	
10,792.01	7,618.00	9,653.71	7,656.57	68.00	43.37	91.04	-477.43	435.82	2,778.74	2,693.57	85.18	32.624	
10,800.00	7,618.00	9,659.57	7,656.69	67.99	43.44	91.05	-483.29	435.80	2,778.75	2,693.45	85.29	32.579	
10,900.00	7,618.00	9,768.11	7,659.56	67.95	44.68	91.10	-591.79	435.58	2,778.65	2,691.27	87.39	31.797	
11,000.00	7,618.00	9,865.04	7,661.84	67.95	45.84	91.15	-688.70	435.33	2,778.62	2,689.22	89.39	31.083	
11,100.00	7,618.00	10,020.91	7,665.58	67.97	47.78	91.23	-844.52	436.58	2,777.55	2,684.99	92.56	30.007	
11,200.00	7,618.00	10,158.98	7,668.96	68.04	49.59	91.30	-982.50	439.99	2,774.82	2,679.21	95.61	29.023	
11,300.00	7,618.00	10,225.78	7,670.18	68.15	50.49	91.33	-1,049.26	442.13	2,771.51	2,674.20	97.31	28.481	
11,400.00	7,618.00	10,262.21	7,670.36	68.30	50.98	91.33	-1,085.69	442.43	2,770.36	2,671.96	98.39	28.156	
11,400.37	7,618.00	10,262.35	7,670.36	68.30	50.98	91.33	-1,085.82	442.43	2,770.36	2,671.96	98.40	28.155	
11,500.00	7,618.00	10,344.45	7,669.59	68.50	52.08	91.31	-1,167.91	441.29	2,771.25	2,670.83	100.42	27.597	
11,600.00	7,618.00	10,492.59	7,666.80	68.75	54.12	91.26	-1,316.02	441.13	2,770.96	2,667.03	103.93	26.661	
11,700.00	7,618.00	10,607.97	7,663.73	69.06	55.75	91.19	-1,431.35	442.67	2,769.18	2,662.35	106.83	25.922	
11,800.00	7,618.00	10,740.06	7,659.55	69.44	57.65	91.11	-1,563.36	444.66	2,767.37	2,657.18	110.19	25.114	
11,900.00	7,618.00	10,781.18	7,658.13	69.88	58.25	91.08	-1,604.45	445.13	2,765.70	2,654.27	111.43	24.820	
11,934.91	7,618.00	10,797.11	7,657.57	70.05	58.48	91.07	-1,620.37	445.12	2,765.58	2,653.69	111.90	24.715	
12,000.00	7,618.00	10,838.92	7,656.07	70.39	59.09	91.04	-1,662.15	444.65	2,765.98	2,652.93	113.05	24.466	
12,100.00	7,618.00	10,988.34	7,650.43	70.97	61.28	90.92	-1,811.46	444.41	2,765.64	2,648.65	117.00	23.639	
12,178.57	7,618.00	11,040.96	7,648.20	71.48	62.06	90.87	-1,864.03	444.53	2,765.19	2,646.70	118.49	23.336	
12,200.00	7,618.00	11,053.49	7,647.61	71.63	62.25	90.86	-1,876.54	444.46	2,765.23	2,646.38	118.85	23.266	
12,300.00	7,618.00	11,142.64	7,642.88	72.35	63.58	90.76	-1,965.56	443.28	2,766.09	2,644.77	121.33	22.798	
12,400.00	7,618.00	12,400.00	7,635.54	73.15	82.81	90.61	-2,090.45	442.74	2,766.06	2,623.69	142.37	19.429	
12,443.94	7,618.00	11,306.76	7,633.09	73.52	66.05	90.56	-2,129.39	442.72	2,765.91	2,640.01	125.90	21.969	
12,500.00	7,618.00	11,343.58	7,630.78	74.01	66.61	90.51	-2,166.14	442.44	2,766.11	2,639.14	126.97	21.786	
12,600.00	7,618.00	11,454.13	7,623.76	74.93	68.30	90.37	-2,276.46	441.27	2,766.80	2,636.69	130.11	21.266	
12,700.00	7,618.00	11,521.00	7,619.19	75.91	69.33	90.27	-2,343.17	440.35	2,767.78	2,635.72	132.06	20.959	
12,800.00	7,618.00	11,596.71	7,614.34	76.95	70.49	90.17	-2,418.70	438.56	2,769.78	2,635.51	134.26	20.630	
12,900.00	7,618.00	11,727.28	7,608.57	78.04	72.50	90.05	-2,549.09	435.33	2,771.99	2,633.91	138.08	20.075	
13,000.00	7,618.00	11,858.23	7,602.35	79.16	74.55	89.92	-2,679.89	433.94	2,772.70	2,630.74	141.96	19.532	
13,100.00	7,618.00	13,100.00	7,596.74	80.33	94.36	89.81	-2,801.07	434.01	2,772.27	2,608.56	163.71	16.934	
13,147.79	7,618.00	12,011.72	7,595.25	80.91	76.97	89.78	-2,833.22	434.09	2,772.05	2,625.47	146.58	18.911	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,200.00	7,618.00	12,037.86	7,593.93	81.54	77.39	89.75	-2,859.32	433.88	2,772.29	2,624.91	147.38	18.810	
13,300.00	7,618.00	12,125.70	7,588.83	82.78	78.78	89.65	-2,946.99	432.14	2,773.91	2,623.87	150.04	18.488	
13,400.00	7,618.00	12,242.35	7,581.48	84.05	80.63	89.49	-3,063.41	430.70	2,774.83	2,621.24	153.59	18.067	
13,500.00	7,618.00	12,344.68	7,576.27	85.35	82.27	89.39	-3,165.60	429.61	2,775.60	2,618.87	156.73	17.709	
13,600.00	7,618.00	12,477.39	7,574.07	86.67	84.41	89.34	-3,298.28	429.03	2,775.72	2,614.84	160.88	17.253	
13,700.00	7,618.00	12,598.60	7,572.69	88.02	86.38	89.31	-3,419.47	429.71	2,774.82	2,610.12	164.70	16.848	
13,800.00	7,618.00	12,694.00	7,571.45	89.38	87.94	89.29	-3,514.86	430.81	2,773.36	2,605.63	167.73	16.535	
13,887.99	7,618.00	12,752.57	7,570.63	90.60	88.89	89.27	-3,573.42	431.12	2,772.70	2,603.10	169.60	16.348	
13,900.00	7,618.00	12,759.19	7,570.52	90.77	89.00	89.27	-3,580.04	431.10	2,772.72	2,602.91	169.81	16.328	
14,000.00	7,618.00	12,829.15	7,569.53	92.17	90.14	89.25	-3,649.99	430.24	2,773.57	2,601.54	172.03	16.123	
14,100.00	7,618.00	12,926.98	7,569.47	93.59	91.73	89.25	-3,747.81	428.46	2,775.04	2,599.88	175.16	15.843	
14,200.00	7,618.00	13,043.12	7,569.39	95.02	93.63	89.24	-3,863.93	426.84	2,776.11	2,597.20	178.91	15.517	
14,300.00	7,618.00	13,182.88	7,569.24	96.47	95.93	89.24	-4,003.69	426.45	2,775.99	2,592.54	183.45	15.132	
14,400.00	7,618.00	13,266.40	7,570.16	97.93	97.31	89.26	-4,087.20	426.67	2,775.43	2,589.25	186.17	14.908	
14,404.97	7,618.00	13,269.58	7,570.23	98.01	97.37	89.26	-4,090.38	426.66	2,775.42	2,589.15	186.28	14.900	
14,500.00	7,618.00	13,343.56	7,572.65	99.41	98.59	89.31	-4,164.32	425.92	2,775.96	2,587.27	188.69	14.711	
14,600.00	7,618.00	13,484.54	7,578.34	100.89	100.93	89.43	-4,305.18	425.26	2,776.07	2,582.69	193.38	14.356	
14,659.08	7,618.00	13,517.90	7,579.72	101.77	101.48	89.46	-4,338.51	425.29	2,775.85	2,581.38	194.47	14.274	
14,700.00	7,618.00	13,535.33	7,580.33	102.38	101.77	89.47	-4,355.93	425.12	2,776.11	2,581.09	195.02	14.235	
14,800.00	7,618.00	13,585.00	7,581.56	103.89	102.59	89.50	-4,405.56	423.81	2,778.23	2,581.65	196.57	14.133	
14,900.00	7,618.00	13,672.58	7,583.01	105.40	104.03	89.53	-4,493.07	420.53	2,781.58	2,582.16	199.42	13.948	
15,000.00	7,618.00	13,798.76	7,584.57	106.92	106.12	89.56	-4,619.18	416.55	2,784.38	2,580.74	203.64	13.673	
15,100.00	7,618.00	13,946.38	7,583.49	108.45	108.57	89.54	-4,766.75	413.54	2,786.17	2,577.59	208.58	13.358	
15,188.65	7,618.00	14,053.67	7,580.93	109.82	110.37	89.48	-4,874.02	413.33	2,785.97	2,573.83	212.14	13.133	
15,200.00	7,618.00	14,059.47	7,580.78	109.99	110.47	89.48	-4,879.81	413.31	2,785.98	2,573.66	212.33	13.121	
15,300.00	7,618.00	14,120.00	7,579.40	111.54	111.48	89.45	-4,940.32	412.36	2,787.09	2,572.83	214.27	13.007	
15,400.00	7,618.00	14,230.89	7,577.21	113.09	113.34	89.41	-5,051.16	410.36	2,788.58	2,570.63	217.96	12.794	
15,500.00	7,618.00	14,303.46	7,577.13	114.65	114.55	89.41	-5,123.72	408.83	2,790.35	2,570.03	220.32	12.665	
15,600.00	7,618.00	14,408.81	7,577.73	116.21	116.32	89.42	-5,229.04	406.54	2,792.16	2,568.32	223.84	12.474	
15,700.00	7,618.00	14,476.00	7,578.48	117.78	117.44	89.44	-5,296.19	404.40	2,794.91	2,568.91	226.00	12.367	
15,800.00	7,618.00	14,608.23	7,580.44	119.36	119.66	89.48	-5,428.34	400.20	2,797.81	2,567.29	230.52	12.137	
15,900.00	7,618.00	14,765.01	7,579.59	120.94	122.30	89.46	-5,585.10	398.13	2,798.78	2,562.90	235.87	11.866	
16,000.00	7,618.00	14,921.52	7,578.66	122.53	124.97	89.44	-5,741.59	398.86	2,798.09	2,556.93	241.16	11.603	
16,100.00	7,618.00	15,071.94	7,579.47	124.12	127.55	89.46	-5,891.95	403.11	2,794.79	2,548.58	246.21	11.351	
16,200.00	7,618.00	15,169.32	7,580.01	125.72	129.22	89.47	-5,989.28	406.43	2,791.04	2,541.51	249.52	11.185	
16,300.00	7,618.00	15,287.68	7,580.32	127.32	131.27	89.47	-6,107.56	410.68	2,787.12	2,533.60	253.52	10.994	
16,400.00	7,618.00	15,375.96	7,580.51	128.93	132.79	89.47	-6,195.77	414.14	2,782.87	2,526.33	256.55	10.847	
16,500.00	7,618.00	15,482.58	7,580.51	130.54	134.63	89.47	-6,302.31	418.07	2,778.85	2,518.68	260.17	10.681	
16,600.00	7,618.00	15,574.75	7,580.34	132.15	136.22	89.47	-6,394.42	421.46	2,774.83	2,511.50	263.33	10.538	
16,700.00	7,618.00	15,665.56	7,580.30	133.77	137.79	89.47	-6,485.17	424.75	2,770.89	2,504.45	266.44	10.400	
16,800.00	7,618.00	15,736.00	7,581.84	135.39	139.01	89.50	-6,555.56	426.77	2,767.72	2,498.83	268.89	10.293	
16,900.00	7,618.00	15,784.54	7,583.80	137.01	139.85	89.54	-6,604.06	427.44	2,766.04	2,495.50	270.54	10.224	
16,933.66	7,618.00	15,799.59	7,584.56	137.56	140.11	89.56	-6,619.09	427.43	2,765.93	2,494.90	271.03	10.205	
17,000.00	7,618.00	15,825.00	7,586.00	138.64	140.54	89.59	-6,644.46	427.19	2,766.37	2,494.57	271.80	10.178	
17,100.00	7,618.00	15,892.07	7,590.12	140.27	141.68	89.67	-6,711.38	425.65	2,768.35	2,494.36	273.99	10.104	
17,200.00	7,618.00	15,959.00	7,593.20	141.91	142.82	89.74	-6,778.19	423.14	2,771.69	2,495.57	276.13	10.038	
17,300.00	7,618.00	16,057.78	7,596.55	143.55	144.49	89.80	-6,876.82	418.85	2,775.69	2,496.19	279.50	9.931	
17,400.00	7,618.00	16,137.00	7,598.87	145.19	145.83	89.85	-6,955.92	415.12	2,780.03	2,497.95	282.09	9.855	
17,500.00	7,618.00	16,237.89	7,601.49	146.83	147.54	89.91	-7,056.65	410.04	2,784.73	2,499.19	285.54	9.752	
17,600.00	7,618.00	16,352.53	7,604.29	148.48	149.48	89.96	-7,171.13	404.75	2,788.99	2,499.44	289.55	9.632	
17,700.00	7,618.00	16,450.19	7,606.37	150.13	151.13	90.01	-7,268.68	400.40	2,793.11	2,500.23	292.88	9.537	
17,800.00	7,618.00	16,550.75	7,607.75	151.78	152.84	90.04	-7,369.11	395.83	2,797.32	2,501.00	296.32	9.440	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,900.00	7,618.00	16,646.35	7,608.33	153.43	154.46	90.05	-7,464.62	391.51	2,801.50	2,501.94	299.56	9.352	
18,000.00	7,618.00	16,743.88	7,608.20	155.09	156.12	90.04	-7,562.04	386.90	2,805.88	2,503.01	302.87	9.264	
18,100.00	7,618.00	18,100.00	7,613.63	156.75	179.36	90.16	-7,719.32	380.62	2,809.71	2,480.42	329.29	8.533	
18,200.00	7,618.00	17,085.49	7,627.74	158.41	161.98	90.44	-7,902.79	379.36	2,809.70	2,494.49	315.21	8.914	
18,300.00	7,618.00	17,243.36	7,637.11	160.07	164.72	90.64	-8,060.35	381.77	2,807.79	2,487.08	320.71	8.755	
18,400.00	7,618.00	17,380.03	7,643.29	161.74	167.11	90.76	-8,196.83	385.67	2,804.72	2,479.31	325.41	8.619	
18,500.00	7,618.00	17,477.90	7,647.08	163.41	168.82	90.84	-8,294.56	389.21	2,800.82	2,472.00	328.82	8.518	
18,600.00	7,618.00	17,588.44	7,650.72	165.08	170.75	90.92	-8,404.96	393.53	2,796.60	2,463.96	332.65	8.407	
18,700.00	7,618.00	17,583.00	7,650.55	166.75	170.66	90.91	-8,399.53	393.31	2,794.31	2,461.80	332.52	8.404	SF
18,711.30	7,618.00	17,583.00	7,650.55	166.94	170.66	90.91	-8,399.53	393.31	2,794.28	2,461.78	332.50	8.404	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-51.84	786.52	-1,000.98	1,273.07				
100.00	100.00	88.70	88.70	0.13	0.15	-51.84	786.56	-1,000.91	1,272.99	1,272.71	0.28	4,515.883	
200.00	200.00	189.49	189.49	0.49	0.32	-51.83	786.71	-1,000.69	1,272.91	1,272.10	0.81	1,575.521	
300.00	300.00	290.28	290.28	0.85	0.48	-51.81	786.96	-1,000.30	1,272.76	1,271.42	1.33	954.120	
400.00	400.00	390.23	390.23	1.21	0.78	-51.79	787.12	-999.94	1,272.57	1,270.58	1.99	639.952	
500.00	500.00	489.86	489.86	1.57	1.12	-51.81	786.67	-1,000.09	1,272.41	1,269.72	2.69	472.690	
600.00	600.00	591.61	591.60	1.93	1.48	-51.87	785.54	-1,000.80	1,272.28	1,268.87	3.40	373.906	
700.00	700.00	731.02	730.93	2.29	1.97	-51.78	785.29	-997.20	1,270.01	1,265.76	4.25	298.748	
800.00	800.00	868.77	868.14	2.64	2.47	-51.32	789.24	-985.84	1,265.39	1,260.29	5.10	248.044	
900.00	900.00	970.72	969.00	3.00	2.86	-50.71	795.60	-972.50	1,259.09	1,253.24	5.84	215.413	
1,000.00	999.98	1,068.86	1,065.16	3.36	3.27	-107.24	805.96	-956.01	1,253.30	1,246.70	6.60	189.923	
1,100.00	1,099.84	1,165.92	1,159.06	3.71	3.71	-106.45	820.53	-936.21	1,248.86	1,241.48	7.39	169.003	
1,200.00	1,199.45	1,250.47	1,240.27	4.07	4.13	-105.75	835.10	-917.77	1,246.08	1,237.92	8.16	152.683	
1,300.00	1,298.70	1,387.67	1,372.24	4.44	4.84	-104.83	857.93	-888.06	1,244.39	1,235.16	9.23	134.851	
1,400.00	1,397.47	1,493.47	1,472.86	4.82	5.44	-104.14	876.16	-860.94	1,241.00	1,230.80	10.20	121.660	
1,500.00	1,495.62	1,573.83	1,548.90	5.22	5.92	-103.67	891.26	-839.78	1,239.22	1,228.14	11.08	111.840	
1,510.77	1,506.15	1,581.26	1,555.93	5.27	5.97	-103.63	892.73	-837.86	1,239.20	1,228.03	11.17	110.931	CC
1,600.00	1,593.06	1,646.75	1,617.83	5.65	6.36	-103.28	906.41	-821.45	1,240.51	1,228.56	11.95	103.830	
1,700.00	1,689.64	1,757.94	1,723.47	6.11	7.03	-102.92	928.92	-795.05	1,243.39	1,230.32	13.07	95.148	
1,800.00	1,785.27	1,918.45	1,876.76	6.61	7.99	-102.86	955.78	-755.84	1,244.22	1,229.74	14.48	85.900	
1,900.00	1,879.82	2,034.99	1,988.49	7.15	8.67	-103.18	970.26	-726.08	1,241.86	1,226.19	15.67	79.268	
1,995.60	1,969.08	2,115.11	2,065.54	7.71	9.13	-103.55	979.90	-706.31	1,240.81	1,224.14	16.67	74.445	
2,000.00	1,973.17	2,118.63	2,068.93	7.73	9.15	-103.56	980.34	-705.46	1,240.81	1,224.10	16.71	74.243	
2,100.00	2,065.21	2,236.69	2,182.48	8.37	9.84	-104.26	995.39	-676.88	1,241.63	1,223.66	17.98	69.071	
2,162.14	2,121.70	2,300.97	2,244.12	8.80	10.22	-104.71	1,002.77	-660.25	1,241.25	1,222.51	18.74	66.218	
2,200.00	2,155.84	2,332.48	2,274.40	9.07	10.40	-104.96	1,006.41	-652.28	1,241.42	1,222.24	19.18	64.741	ES
2,300.00	2,244.94	2,402.79	2,342.12	9.82	10.81	-105.56	1,014.84	-635.37	1,243.91	1,223.63	20.28	61.336	
2,400.00	2,332.39	2,472.39	2,409.44	10.64	11.20	-106.21	1,023.94	-620.21	1,250.04	1,228.63	21.41	58.383	
2,500.00	2,418.11	2,545.12	2,479.84	11.53	11.60	-106.92	1,034.47	-605.35	1,259.54	1,236.96	22.59	55.764	
2,558.91	2,467.74	2,587.46	2,520.90	12.08	11.83	-107.36	1,040.87	-597.25	1,266.72	1,243.43	23.29	54.388	
2,600.00	2,502.13	2,646.16	2,577.73	12.47	12.16	-108.16	1,050.06	-585.74	1,272.00	1,248.04	23.96	53.091	
2,700.00	2,585.83	2,781.46	2,707.29	13.45	12.96	-109.77	1,072.18	-553.70	1,282.32	1,256.74	25.58	50.128	
2,800.00	2,669.53	2,850.58	2,773.52	14.44	13.38	-110.59	1,083.27	-537.33	1,293.16	1,266.33	26.83	48.205	
2,900.00	2,753.22	2,993.29	2,910.95	15.46	14.20	-112.40	1,102.76	-504.24	1,303.58	1,275.16	28.43	45.854	
3,000.00	2,836.92	3,085.09	2,999.26	16.48	14.75	-113.56	1,114.08	-481.89	1,313.09	1,283.33	29.76	44.126	
3,100.00	2,920.62	3,160.38	3,071.38	17.52	15.19	-114.43	1,125.10	-463.29	1,324.09	1,293.09	31.00	42.708	
3,200.00	3,004.32	3,232.26	3,140.63	18.56	15.61	-115.28	1,135.69	-447.22	1,337.52	1,305.32	32.20	41.534	
3,300.00	3,088.01	3,370.94	3,274.17	19.61	16.42	-116.90	1,155.85	-415.72	1,351.39	1,317.65	33.74	40.054	
3,400.00	3,171.71	3,453.26	3,353.51	20.67	16.89	-117.90	1,165.58	-396.07	1,363.45	1,328.51	34.94	39.025	
3,500.00	3,255.41	3,526.33	3,424.47	21.73	17.29	-118.83	1,173.69	-380.64	1,378.00	1,341.95	36.05	38.227	
3,600.00	3,339.10	3,617.68	3,512.82	22.80	17.81	-119.89	1,186.16	-361.08	1,394.02	1,356.77	37.25	37.421	
3,700.00	3,422.80	3,724.40	3,615.39	23.87	18.43	-121.00	1,202.79	-336.76	1,410.13	1,371.56	38.57	36.562	
3,800.00	3,506.50	3,843.68	3,729.87	24.94	19.15	-122.21	1,220.60	-308.39	1,425.55	1,385.62	39.94	35.697	
3,900.00	3,590.20	3,899.72	3,783.91	26.02	19.45	-122.80	1,228.27	-295.67	1,441.87	1,400.97	40.90	35.252	
4,000.00	3,673.89	3,962.00	3,844.61	27.10	19.79	-123.54	1,235.56	-283.87	1,461.22	1,419.38	41.84	34.925	
4,100.00	3,757.59	4,068.75	3,948.82	28.18	20.34	-124.78	1,248.01	-264.38	1,481.88	1,438.91	42.97	34.486	
4,200.00	3,841.29	4,188.64	4,064.73	29.26	21.02	-125.96	1,265.50	-239.27	1,501.54	1,457.30	44.24	33.937	
4,300.00	3,924.99	4,334.66	4,203.97	30.35	21.92	-127.15	1,290.72	-203.30	1,518.93	1,473.18	45.74	33.204	
4,400.00	4,008.68	4,419.80	4,285.40	31.44	22.45	-127.88	1,303.51	-181.97	1,535.58	1,488.74	46.84	32.782	
4,500.00	4,092.38	4,518.66	4,380.09	32.52	23.05	-128.74	1,317.78	-157.43	1,552.63	1,504.65	47.98	32.361	
4,600.00	4,176.08	4,585.00	4,443.50	33.62	23.46	-129.28	1,328.19	-140.94	1,570.50	1,521.56	48.94	32.092	
4,700.00	4,259.77	4,653.06	4,508.83	34.71	23.86	-129.83	1,339.04	-125.23	1,590.38	1,540.51	49.87	31.892	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,800.00	4,343.47	4,719.67	4,573.23	35.80	24.23	-130.39	1,349.28	-111.73	1,612.82	1,562.08	50.74	31.786	
4,900.00	4,427.17	4,900.00	4,683.17	36.89	25.22	-131.37	1,365.54	-89.18	1,635.75	1,583.56	52.19	31.343	
5,000.00	4,510.87	5,030.19	4,873.19	37.99	25.99	-133.13	1,387.97	-41.97	1,653.54	1,600.22	53.32	31.012	
5,100.00	4,594.56	5,099.24	4,939.51	39.08	26.40	-133.71	1,395.94	-24.49	1,671.46	1,617.28	54.17	30.854	
5,200.00	4,678.26	5,165.96	5,003.84	40.18	26.79	-134.27	1,403.84	-8.66	1,691.27	1,636.29	54.99	30.758	
5,300.00	4,761.96	5,230.64	5,066.36	41.28	27.16	-134.79	1,412.14	5.71	1,713.05	1,657.28	55.77	30.718	
5,400.00	4,845.66	5,298.00	5,131.67	42.37	27.53	-135.31	1,421.25	19.46	1,736.88	1,680.34	56.54	30.721	
5,500.00	4,929.35	5,406.89	5,237.27	43.47	28.13	-136.13	1,436.27	41.35	1,761.39	1,703.84	57.55	30.604	
5,600.00	5,013.05	5,529.82	5,355.79	44.57	28.83	-136.96	1,455.26	67.85	1,785.02	1,726.32	58.70	30.411	
5,700.00	5,096.75	5,660.34	5,481.47	45.67	29.59	-137.86	1,473.04	98.23	1,806.91	1,747.09	59.82	30.205	
5,800.00	5,180.45	5,716.30	5,535.35	46.77	29.92	-138.23	1,480.98	111.11	1,829.30	1,768.77	60.53	30.220	
5,900.00	5,264.14	5,796.19	5,612.64	47.87	30.37	-138.78	1,491.83	128.16	1,853.50	1,792.15	61.34	30.215	
6,000.00	5,347.84	5,935.28	5,747.22	48.97	31.15	-139.76	1,508.44	159.06	1,876.97	1,814.54	62.44	30.063	
6,100.00	5,431.54	5,998.17	5,807.90	50.07	31.51	-140.16	1,516.83	173.33	1,900.35	1,837.21	63.14	30.097	
6,200.00	5,515.23	6,075.55	5,882.58	51.17	31.95	-140.62	1,528.42	189.92	1,925.23	1,861.29	63.94	30.110	
6,300.00	5,598.93	6,138.32	5,943.24	52.27	32.30	-140.97	1,538.17	202.79	1,951.32	1,886.69	64.63	30.193	
6,400.00	5,682.63	6,211.54	6,014.46	53.38	32.69	-141.41	1,548.54	216.22	1,979.39	1,914.05	65.34	30.292	
6,500.00	5,766.33	6,350.23	6,149.88	54.48	33.39	-142.43	1,560.59	243.50	2,006.02	1,939.71	66.31	30.253	
6,600.00	5,850.02	6,533.82	6,328.59	55.58	34.35	-143.83	1,572.46	283.76	2,031.31	1,963.98	67.34	30.166	
6,700.00	5,933.72	6,626.83	6,418.06	56.68	34.90	-144.39	1,582.89	306.83	2,053.87	1,985.73	68.13	30.144	
6,800.00	6,017.42	6,679.76	6,468.85	57.79	35.21	-144.65	1,590.90	319.40	2,077.74	2,008.97	68.77	30.212	
6,900.00	6,101.12	6,900.00	6,644.02	58.89	36.58	-145.39	1,622.83	362.30	2,103.11	2,032.65	70.47	29.846	
7,000.00	6,184.81	7,194.42	6,954.60	59.99	38.53	-147.31	1,655.46	468.82	2,117.82	2,046.21	71.61	29.575	
7,100.00	6,268.51	7,233.95	6,991.36	61.10	38.75	-147.73	1,651.57	482.76	2,129.89	2,057.76	72.13	29.529	
7,200.00	6,352.21	7,258.00	7,013.78	62.20	38.88	-148.02	1,648.04	490.72	2,145.05	2,072.45	72.61	29.543	
7,300.00	6,435.90	7,258.00	7,013.78	63.31	38.88	-148.02	1,648.04	490.72	2,164.42	2,091.38	73.05	29.631	
7,400.00	6,519.60	7,309.27	7,061.73	64.41	39.06	-148.70	1,637.49	505.44	2,185.76	2,112.57	73.18	29.867	
7,500.00	6,603.30	7,348.00	7,097.92	65.51	39.19	-149.28	1,626.81	514.10	2,211.81	2,138.54	73.27	30.186	
7,600.00	6,687.00	7,348.00	7,097.92	66.62	39.19	-149.28	1,626.81	514.10	2,240.67	2,167.25	73.42	30.518	
7,700.00	6,770.69	7,348.00	7,097.92	67.72	39.19	-149.28	1,626.81	514.10	2,273.56	2,200.11	73.46	30.952	
7,800.00	6,854.39	7,387.31	7,134.39	68.83	39.24	-149.90	1,613.84	520.87	2,309.00	2,235.72	73.28	31.509	
7,900.00	6,938.09	7,405.41	7,151.06	69.93	39.27	-150.20	1,607.21	523.35	2,347.91	2,274.80	73.11	32.117	
7,933.18	6,965.86	7,437.00	7,179.86	70.30	39.31	-150.73	1,594.70	526.71	2,362.07	2,289.11	72.96	32.375	
7,950.00	6,980.00	7,437.00	7,179.86	70.49	39.31	-153.81	1,594.70	526.71	2,368.97	2,296.03	72.93	32.481	
8,000.00	7,022.68	7,437.00	7,179.86	71.01	39.31	-163.70	1,594.70	526.71	2,390.02	2,317.16	72.85	32.805	
8,050.00	7,066.06	7,437.00	7,179.86	71.51	39.31	-174.55	1,594.70	526.71	2,411.76	2,338.98	72.78	33.139	
8,100.00	7,109.82	7,437.00	7,179.86	71.97	39.31	173.98	1,594.70	526.71	2,434.01	2,361.31	72.70	33.480	
8,150.00	7,153.63	7,437.00	7,179.86	72.38	39.31	162.42	1,594.70	526.71	2,456.59	2,383.97	72.63	33.825	
8,200.00	7,197.14	7,473.53	7,212.80	72.74	39.32	151.10	1,579.14	529.41	2,478.54	2,406.04	72.50	34.189	
8,250.00	7,240.04	7,488.58	7,226.28	73.05	39.32	140.84	1,572.50	530.24	2,500.47	2,428.05	72.42	34.528	
8,300.00	7,281.99	8,300.00	7,270.39	73.31	39.57	131.65	1,549.31	532.32	2,522.20	2,449.58	72.61	34.735	
8,350.00	7,322.67	7,656.92	7,372.28	73.52	39.33	123.70	1,489.61	540.52	2,541.92	2,469.98	71.95	35.331	
8,400.00	7,361.77	7,697.39	7,405.76	73.68	39.33	117.09	1,467.18	544.23	2,559.26	2,487.43	71.83	35.629	
8,450.00	7,399.01	7,732.19	7,433.84	73.78	39.32	111.51	1,446.87	547.43	2,575.28	2,503.53	71.75	35.894	
8,500.00	7,434.08	7,766.10	7,460.20	73.85	39.31	106.82	1,425.78	550.51	2,589.95	2,518.28	71.67	36.137	
8,550.00	7,466.74	7,817.78	7,498.28	73.87	39.28	102.94	1,391.18	555.23	2,603.15	2,531.65	71.50	36.410	
8,600.00	7,496.72	8,060.00	7,625.16	73.85	39.12	99.23	1,190.83	592.28	2,611.20	2,541.42	69.78	37.419	
8,650.00	7,523.80	8,090.71	7,634.66	73.79	39.10	96.67	1,162.24	598.24	2,616.95	2,547.29	69.66	37.565	
8,700.00	7,547.77	8,110.02	7,640.16	73.70	39.08	94.69	1,144.06	601.72	2,621.37	2,551.72	69.65	37.636	
8,750.00	7,568.45	8,149.00	7,650.10	73.58	39.07	93.09	1,106.92	608.10	2,624.52	2,555.02	69.51	37.759	
8,800.00	7,585.69	8,149.00	7,650.10	73.43	39.07	92.04	1,106.92	608.10	2,625.83	2,556.13	69.70	37.672	
8,850.00	7,599.35	8,149.00	7,650.10	73.26	39.07	91.31	1,106.92	608.10	2,626.03	2,556.08	69.95	37.544	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,609.33	8,181.68	7,657.38	73.07	39.03	90.93	1,075.39	612.68	2,624.48	2,554.51	69.97	37.511	
8,950.00	7,615.55	8,197.95	7,660.68	72.87	39.01	90.91	1,059.58	614.65	2,621.67	2,551.52	70.15	37.371	
9,000.00	7,617.97	8,238.00	7,667.91	72.65	38.98	91.30	1,020.39	618.62	2,617.79	2,547.62	70.17	37.306	
9,006.60	7,618.00	8,238.00	7,667.91	72.62	38.98	91.36	1,020.39	618.62	2,617.08	2,546.86	70.22	37.270	
9,100.00	7,618.00	8,254.75	7,670.64	72.22	38.96	91.42	1,003.93	619.99	2,608.41	2,537.59	70.82	36.833	
9,200.00	7,618.00	8,327.00	7,681.80	71.80	38.89	91.67	932.74	625.26	2,601.06	2,530.03	71.03	36.619	
9,300.00	7,618.00	8,390.79	7,690.51	71.41	38.85	91.87	869.67	629.13	2,594.94	2,523.55	71.38	36.352	
9,400.00	7,618.00	8,417.00	7,693.68	71.04	38.84	91.94	843.69	630.54	2,590.48	2,518.47	72.01	35.973	
9,500.00	7,618.00	8,466.50	7,698.44	70.68	38.80	92.05	794.45	632.00	2,588.14	2,515.63	72.51	35.694	
9,527.94	7,618.00	8,474.98	7,699.05	70.59	38.80	92.06	785.98	632.02	2,588.04	2,515.35	72.69	35.603	
9,600.00	7,618.00	8,506.00	7,700.82	70.35	38.79	92.10	755.02	631.56	2,588.79	2,515.72	73.07	35.427	
9,700.00	7,618.00	8,536.40	7,702.05	70.04	38.76	92.13	724.67	630.43	2,591.90	2,518.18	73.72	35.160	
9,800.00	7,618.00	8,595.00	7,703.72	69.75	38.73	92.16	666.20	626.93	2,597.36	2,523.17	74.20	35.007	
9,900.00	7,618.00	8,688.57	7,705.86	69.47	38.72	92.20	572.88	620.46	2,603.98	2,529.44	74.54	34.935	
10,000.00	7,618.00	8,814.55	7,709.01	69.22	38.80	92.27	447.15	613.25	2,609.43	2,534.45	74.97	34.805	
10,100.00	7,618.00	9,068.19	7,716.18	68.99	39.54	92.42	193.75	608.13	2,610.66	2,534.60	76.06	34.325	
10,189.01	7,618.00	9,136.95	7,716.59	68.80	39.88	92.43	124.98	608.19	2,610.30	2,533.38	76.93	33.933	
10,200.00	7,618.00	9,144.92	7,716.65	68.78	39.92	92.43	117.02	608.16	2,610.31	2,533.28	77.03	33.886	
10,300.00	7,618.00	9,218.00	7,717.34	68.59	40.33	92.44	43.94	607.47	2,610.95	2,532.90	78.06	33.450	
10,400.00	7,618.00	9,446.42	7,719.17	68.42	42.03	92.49	-184.41	610.27	2,609.14	2,528.52	80.62	32.362	
10,500.00	7,618.00	9,576.86	7,718.27	68.28	43.24	92.47	-314.75	615.25	2,605.01	2,522.38	82.63	31.525	
10,600.00	7,618.00	9,688.84	7,716.50	68.16	44.40	92.44	-426.59	620.65	2,599.79	2,515.20	84.59	30.734	
10,700.00	7,618.00	9,772.70	7,714.89	68.06	45.31	92.41	-510.33	624.76	2,594.50	2,508.27	86.23	30.088	
10,800.00	7,618.00	9,842.00	7,714.44	67.99	46.08	92.40	-579.59	627.11	2,590.61	2,502.91	87.70	29.541	
10,900.00	7,618.00	9,932.64	7,714.64	67.95	47.11	92.41	-670.19	629.52	2,587.58	2,498.00	89.57	28.888	
11,000.00	7,618.00	9,969.80	7,714.66	67.95	47.54	92.41	-707.34	630.13	2,585.56	2,495.02	90.54	28.556	
11,034.45	7,618.00	9,982.98	7,714.66	67.95	47.69	92.41	-720.53	630.14	2,585.42	2,494.53	90.89	28.446	
11,100.00	7,618.00	10,020.00	7,714.61	67.97	48.12	92.41	-757.54	629.59	2,586.01	2,494.27	91.74	28.189	
11,200.00	7,618.00	10,087.96	7,714.44	68.04	48.91	92.40	-825.47	627.77	2,588.14	2,494.87	93.27	27.749	
11,300.00	7,618.00	10,182.21	7,713.92	68.15	50.03	92.39	-919.69	625.13	2,590.57	2,495.23	95.34	27.172	
11,400.00	7,618.00	10,299.55	7,712.50	68.30	51.47	92.35	-1,036.98	621.94	2,592.92	2,494.97	97.95	26.471	
11,500.00	7,618.00	10,458.57	7,709.89	68.50	53.51	92.30	-1,195.96	620.05	2,593.72	2,492.12	101.61	25.527	
11,537.55	7,618.00	10,486.21	7,709.63	68.58	53.88	92.29	-1,223.60	620.02	2,593.62	2,491.32	102.30	25.353	
11,600.00	7,618.00	10,525.60	7,709.28	68.75	54.40	92.28	-1,262.99	619.70	2,593.90	2,490.60	103.30	25.110	
11,700.00	7,618.00	10,638.80	7,708.14	69.06	55.92	92.26	-1,376.17	618.10	2,594.99	2,488.88	106.11	24.455	
11,800.00	7,618.00	10,757.73	7,705.18	69.44	57.56	92.19	-1,495.06	617.76	2,594.80	2,485.67	109.13	23.777	
11,860.95	7,618.00	10,809.69	7,703.48	69.70	58.28	92.15	-1,546.99	617.61	2,594.70	2,484.21	110.49	23.483	
11,900.00	7,618.00	10,836.64	7,702.64	69.88	58.66	92.13	-1,573.93	617.44	2,594.77	2,483.57	111.20	23.334	
12,000.00	7,618.00	10,896.16	7,702.04	70.39	59.50	92.12	-1,633.43	616.48	2,596.02	2,483.22	112.80	23.014	
12,100.00	7,618.00	10,968.70	7,703.17	70.97	60.51	92.14	-1,705.93	614.35	2,598.64	2,483.88	114.76	22.645	
12,200.00	7,618.00	11,072.87	7,706.17	71.63	61.98	92.21	-1,810.00	610.77	2,601.85	2,484.24	117.61	22.123	
12,300.00	7,618.00	12,300.00	7,711.89	72.35	80.26	92.33	-1,963.02	607.13	2,604.19	2,465.85	138.34	18.824	
12,400.00	7,618.00	11,373.00	7,715.53	73.15	66.38	92.41	-2,109.91	607.44	2,603.54	2,477.42	126.11	20.644	
12,500.00	7,618.00	11,468.25	7,717.00	74.01	67.82	92.44	-2,205.15	607.92	2,602.76	2,473.88	128.88	20.196	
12,600.00	7,618.00	11,574.46	7,718.27	74.93	69.43	92.47	-2,311.35	608.54	2,601.89	2,469.90	131.99	19.713	
12,700.00	7,618.00	11,667.79	7,718.96	75.91	70.86	92.49	-2,404.67	609.14	2,600.95	2,466.20	134.74	19.303	
12,798.35	7,618.00	11,747.49	7,718.99	76.93	72.09	92.49	-2,484.38	609.18	2,600.57	2,463.47	137.10	18.968	
12,800.00	7,618.00	11,748.78	7,718.98	76.95	72.11	92.49	-2,485.66	609.18	2,600.57	2,463.43	137.14	18.963	
12,900.00	7,618.00	11,854.95	7,718.50	78.04	73.74	92.48	-2,591.83	608.54	2,600.83	2,460.52	140.31	18.536	
13,000.00	7,618.00	11,960.35	7,717.39	79.16	75.38	92.46	-2,697.22	608.74	2,600.25	2,456.76	143.49	18.122	
13,100.00	7,618.00	12,052.81	7,715.86	80.33	76.83	92.42	-2,789.67	608.60	2,599.98	2,453.70	146.28	17.774	
13,200.00	7,618.00	12,181.78	7,713.51	81.54	78.86	92.37	-2,918.62	608.98	2,599.28	2,449.04	150.24	17.300	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,300.00	7,618.00	12,280.62	7,711.60	82.78	80.43	92.33	-3,017.43	609.83	2,598.00	2,444.72	153.28	16.949	
13,400.00	7,618.00	12,360.49	7,709.54	84.05	81.70	92.28	-3,097.27	610.27	2,597.03	2,441.31	155.73	16.677	
13,428.05	7,618.00	12,377.46	7,709.12	84.41	81.97	92.28	-3,114.24	610.24	2,596.97	2,440.74	156.24	16.622	
13,500.00	7,618.00	12,426.00	7,708.09	85.35	82.75	92.25	-3,162.77	609.74	2,597.37	2,439.67	157.70	16.471	
13,600.00	7,618.00	12,497.82	7,707.06	86.67	83.88	92.23	-3,234.56	608.31	2,598.92	2,439.06	159.86	16.257	
13,700.00	7,618.00	12,610.91	7,707.49	88.02	85.68	92.24	-3,347.63	605.80	2,600.83	2,437.39	163.44	15.913	
13,800.00	7,618.00	12,737.82	7,708.97	89.38	87.72	92.27	-3,474.52	604.74	2,601.27	2,433.75	167.52	15.528	
13,900.00	7,618.00	12,957.32	7,710.42	90.77	91.30	92.30	-3,693.96	607.39	2,600.14	2,425.46	174.68	14.885	
14,000.00	7,618.00	13,019.61	7,710.61	92.17	92.32	92.31	-3,756.22	609.36	2,596.68	2,420.01	176.67	14.698	
14,100.00	7,618.00	13,084.18	7,710.54	93.59	93.39	92.31	-3,820.78	610.41	2,594.70	2,415.99	178.71	14.519	
14,200.00	7,618.00	13,170.43	7,710.57	95.02	94.80	92.31	-3,907.03	610.77	2,593.90	2,412.43	181.47	14.294	
14,300.00	7,618.00	13,262.53	7,710.51	96.47	96.31	92.31	-3,999.13	611.52	2,592.78	2,408.35	184.43	14.058	
14,328.66	7,618.00	13,278.10	7,710.69	96.89	96.57	92.31	-4,014.70	611.51	2,592.71	2,407.80	184.91	14.022	
14,400.00	7,618.00	13,317.00	7,711.51	97.93	97.21	92.33	-4,053.59	611.17	2,593.16	2,407.08	186.08	13.936	
14,500.00	7,618.00	13,418.09	7,714.64	99.41	98.86	92.40	-4,154.62	609.68	2,594.42	2,405.04	189.38	13.700	
14,600.00	7,618.00	13,530.64	7,718.15	100.89	100.72	92.48	-4,267.11	608.38	2,595.37	2,402.26	193.11	13.440	
14,700.00	7,618.00	13,677.99	7,721.90	102.38	103.15	92.56	-4,414.41	607.95	2,595.54	2,397.46	198.08	13.103	
14,800.00	7,618.00	13,810.59	7,725.22	103.89	105.37	92.64	-4,546.94	610.11	2,593.65	2,391.12	202.53	12.806	
14,900.00	7,618.00	13,926.09	7,727.25	105.40	107.31	92.68	-4,662.39	612.84	2,591.03	2,384.65	206.38	12.554	
15,000.00	7,618.00	13,981.71	7,727.91	106.92	108.25	92.70	-4,718.00	613.99	2,588.80	2,380.65	208.15	12.437	
15,100.00	7,618.00	15,100.00	7,728.90	108.45	127.06	92.72	-4,821.47	614.56	2,587.97	2,359.15	228.82	11.310	
15,200.00	7,618.00	14,208.00	7,730.10	109.99	112.05	92.75	-4,944.24	617.08	2,585.51	2,369.78	215.73	11.985	
15,300.00	7,618.00	14,271.67	7,730.53	111.54	113.12	92.76	-5,007.90	617.75	2,584.08	2,366.32	217.76	11.867	
15,347.16	7,618.00	14,297.00	7,730.67	112.27	113.55	92.77	-5,033.23	617.84	2,583.83	2,365.29	218.54	11.823	
15,400.00	7,618.00	14,328.95	7,730.80	113.09	114.08	92.77	-5,065.18	617.67	2,583.97	2,364.45	219.52	11.771	
15,500.00	7,618.00	14,386.00	7,730.83	114.65	115.03	92.77	-5,122.21	616.39	2,585.77	2,364.56	221.21	11.689	
15,600.00	7,618.00	14,465.55	7,730.71	116.21	116.35	92.76	-5,201.72	613.61	2,588.85	2,365.12	223.73	11.571	
15,700.00	7,618.00	14,627.95	7,730.56	117.78	119.06	92.76	-5,364.06	609.55	2,591.07	2,361.62	229.45	11.292	
15,800.00	7,618.00	14,752.50	7,730.35	119.36	121.15	92.75	-5,488.60	608.79	2,591.31	2,357.60	233.71	11.088	
15,900.00	7,618.00	14,879.98	7,730.00	120.94	123.31	92.74	-5,616.09	609.01	2,590.81	2,352.74	238.08	10.882	
16,000.00	7,618.00	16,000.00	7,729.25	122.53	142.42	92.73	-5,745.93	611.17	2,588.69	2,329.17	259.52	9.975	
16,100.00	7,618.00	15,085.00	7,728.91	124.12	126.80	92.72	-5,821.07	612.52	2,586.62	2,341.63	244.99	10.558	
16,200.00	7,618.00	15,163.00	7,728.33	125.72	128.12	92.71	-5,899.07	612.64	2,586.01	2,338.46	247.55	10.446	
16,300.00	7,618.00	15,342.73	7,730.78	127.32	131.19	92.77	-6,078.75	614.84	2,584.95	2,331.12	253.82	10.184	
16,400.00	7,618.00	15,420.68	7,732.42	128.93	132.53	92.81	-6,156.65	617.10	2,581.81	2,325.36	256.45	10.068	
16,500.00	7,618.00	15,516.65	7,734.32	130.54	134.18	92.85	-6,252.57	619.38	2,579.19	2,319.48	259.71	9.931	
16,600.00	7,618.00	15,621.46	7,736.43	132.15	135.98	92.90	-6,357.33	622.03	2,576.42	2,313.13	263.29	9.785	
16,700.00	7,618.00	15,697.00	7,738.00	133.77	137.28	92.94	-6,432.83	623.56	2,574.15	2,308.34	265.81	9.684	
16,800.00	7,618.00	15,766.46	7,739.43	135.39	138.47	92.97	-6,502.27	624.23	2,572.96	2,304.88	268.08	9.598	
16,848.41	7,618.00	15,798.69	7,740.10	136.18	139.02	92.99	-6,534.50	624.26	2,572.79	2,303.68	269.11	9.560	
16,900.00	7,618.00	15,830.20	7,740.73	137.01	139.55	93.00	-6,566.00	624.07	2,572.99	2,302.91	270.09	9.527	
17,000.00	7,618.00	15,890.16	7,741.88	138.64	140.57	93.03	-6,625.94	623.01	2,574.54	2,302.65	271.89	9.469	
17,100.00	7,618.00	15,947.03	7,742.96	140.27	141.53	93.05	-6,682.77	621.06	2,577.71	2,304.21	273.50	9.425	
17,200.00	7,618.00	16,087.78	7,744.86	141.91	143.91	93.08	-6,823.40	615.75	2,581.33	2,302.75	278.58	9.266	
17,300.00	7,618.00	16,250.52	7,745.69	143.55	146.68	93.10	-6,986.11	613.35	2,582.46	2,297.99	284.47	9.078	
17,300.95	7,618.00	16,251.42	7,745.70	143.56	146.70	93.10	-6,987.02	613.35	2,582.46	2,297.96	284.50	9.077	
17,400.00	7,618.00	16,342.22	7,746.00	145.19	148.25	93.11	-7,077.81	612.96	2,582.57	2,295.01	287.56	8.981	
17,500.00	7,618.00	16,430.42	7,746.26	146.83	149.76	93.11	-7,166.01	612.10	2,583.21	2,292.70	290.51	8.892	
17,600.00	7,618.00	16,537.10	7,746.54	148.48	151.58	93.12	-7,272.68	611.14	2,583.78	2,289.59	294.18	8.783	
17,700.00	7,618.00	16,642.68	7,746.66	150.13	153.39	93.12	-7,378.26	610.26	2,584.28	2,286.46	297.82	8.677	
17,800.00	7,618.00	16,749.99	7,746.99	151.78	155.23	93.13	-7,485.56	609.79	2,584.39	2,282.86	301.53	8.571	
17,900.00	7,618.00	16,838.02	7,747.26	153.43	156.75	93.13	-7,573.59	609.34	2,584.59	2,280.11	304.48	8.488	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,000.00	7,618.00	16,933.93	7,747.46	155.09	158.39	93.14	-7,669.50	608.44	2,585.20	2,277.45	307.74	8.400	
18,100.00	7,618.00	17,034.02	7,747.33	156.75	160.11	93.13	-7,769.58	607.45	2,585.84	2,274.67	311.17	8.310	
18,200.00	7,618.00	17,136.20	7,746.68	158.41	161.86	93.12	-7,871.75	606.47	2,586.42	2,271.74	314.68	8.219	
18,300.00	7,618.00	17,241.37	7,745.29	160.07	163.67	93.09	-7,976.92	605.47	2,586.97	2,268.66	318.31	8.127	
18,400.00	7,618.00	17,334.00	7,743.75	161.74	165.26	93.05	-8,069.52	604.92	2,587.16	2,265.71	321.45	8.048	
18,500.00	7,618.00	17,404.82	7,743.30	163.41	166.48	93.04	-8,140.33	603.65	2,588.51	2,264.81	323.70	7.997	
18,600.00	7,618.00	17,519.12	7,743.37	165.08	168.44	93.04	-8,254.62	601.90	2,589.66	2,261.95	327.72	7.902	
18,700.00	7,618.00	17,607.37	7,743.62	166.75	169.96	93.04	-8,342.86	600.24	2,591.20	2,260.53	330.67	7.836	
18,711.30	7,618.00	17,618.84	7,743.64	166.94	170.16	93.05	-8,354.32	600.01	2,591.39	2,260.32	331.07	7.827	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-51.56	786.51	-990.90	1,265.16				
100.00	100.00	81.52	81.52	0.13	0.14	-51.56	786.71	-991.01	1,265.33	1,265.06	0.27	4,671.581	
200.00	200.00	174.15	174.14	0.49	0.29	-51.54	787.40	-991.41	1,266.13	1,265.35	0.78	1,615.988	
300.00	300.00	266.76	266.74	0.85	0.45	-51.52	788.59	-992.10	1,267.52	1,266.22	1.30	977.979	
400.00	400.00	360.99	360.96	1.21	0.69	-51.49	790.28	-993.10	1,269.46	1,267.56	1.89	670.055	
500.00	500.00	457.24	457.18	1.57	1.03	-51.45	792.23	-994.35	1,271.73	1,269.13	2.60	489.410	
600.00	600.00	553.48	553.38	1.93	1.38	-51.42	794.35	-995.82	1,274.30	1,271.00	3.30	385.975	
700.00	700.00	674.59	674.41	2.29	1.81	-51.29	798.29	-996.01	1,276.51	1,272.42	4.09	312.000	
800.00	800.00	810.21	809.48	2.64	2.30	-50.76	807.20	-988.18	1,276.14	1,271.20	4.94	258.297	
900.00	900.00	981.73	978.74	3.00	2.97	-49.57	822.61	-965.58	1,271.72	1,265.76	5.96	213.495	
1,000.00	999.98	1,166.99	1,158.41	3.36	3.81	-105.25	840.25	-924.36	1,261.20	1,254.09	7.11	177.395	
1,100.00	1,099.84	1,262.91	1,250.11	3.71	4.31	-104.54	850.31	-898.08	1,249.02	1,241.08	7.94	157.219	
1,200.00	1,199.45	1,334.00	1,317.90	4.07	4.71	-104.09	859.09	-878.57	1,239.25	1,230.56	8.69	142.586	
1,300.00	1,298.70	1,425.34	1,405.37	4.44	5.22	-103.56	871.20	-855.21	1,232.48	1,222.91	9.56	128.913	
1,400.00	1,397.47	1,555.41	1,529.38	4.82	5.98	-102.90	887.95	-819.76	1,225.21	1,214.55	10.66	114.901	
1,500.00	1,495.62	1,634.00	1,603.87	5.22	6.46	-102.59	898.83	-797.20	1,218.49	1,206.95	11.54	105.551	
1,600.00	1,593.06	1,701.77	1,668.28	5.65	6.87	-102.40	909.16	-778.85	1,214.75	1,202.36	12.39	98.063	
1,700.00	1,689.64	1,790.09	1,752.50	6.11	7.41	-102.25	923.61	-756.52	1,213.81	1,200.44	13.37	90.766	
1,800.00	1,785.27	1,905.10	1,861.81	6.61	8.12	-102.15	942.97	-726.44	1,213.39	1,198.83	14.56	83.338	
1,900.00	1,879.82	2,028.40	1,979.08	7.15	8.89	-102.31	961.75	-693.33	1,212.10	1,196.27	15.83	76.576	
2,000.00	1,973.17	2,128.23	2,074.38	7.73	9.50	-102.68	974.66	-666.55	1,209.95	1,192.96	16.99	71.216	
2,100.00	2,065.21	2,228.57	2,170.43	8.37	10.11	-103.23	987.87	-640.69	1,209.56	1,191.37	18.19	66.499	
2,138.38	2,100.17	2,275.30	2,215.12	8.64	10.39	-103.54	993.73	-628.39	1,209.34	1,190.63	18.71	64.641	CC
2,200.00	2,155.84	2,315.59	2,253.77	9.07	10.63	-103.84	998.87	-618.25	1,209.79	1,190.44	19.35	62.505	ES
2,300.00	2,244.94	2,426.58	2,360.52	9.82	11.29	-104.83	1,012.67	-591.13	1,211.97	1,191.29	20.68	58.618	
2,400.00	2,332.39	2,506.88	2,437.88	10.64	11.75	-105.66	1,021.86	-571.66	1,214.86	1,192.99	21.87	55.548	
2,500.00	2,418.11	2,586.52	2,514.95	11.53	12.20	-106.60	1,031.12	-553.87	1,220.73	1,197.64	23.08	52.883	
2,558.91	2,467.74	2,627.08	2,554.34	12.08	12.41	-107.10	1,035.82	-545.43	1,225.65	1,201.88	23.77	51.565	
2,600.00	2,502.13	2,654.12	2,580.67	12.47	12.56	-107.52	1,038.99	-540.19	1,229.82	1,205.58	24.24	50.734	
2,700.00	2,585.83	2,747.35	2,671.86	13.45	13.02	-109.02	1,049.26	-523.78	1,241.54	1,216.04	25.50	48.686	
2,800.00	2,669.53	2,852.15	2,774.75	14.44	13.53	-110.78	1,058.14	-505.91	1,253.25	1,226.47	26.78	46.806	
2,900.00	2,753.22	2,962.90	2,883.32	15.46	14.06	-112.60	1,066.98	-485.92	1,264.98	1,236.92	28.06	45.081	
3,000.00	2,836.92	3,058.29	2,976.43	16.48	14.56	-114.06	1,075.72	-467.14	1,276.97	1,247.67	29.30	43.588	
3,100.00	2,920.62	3,159.06	3,074.31	17.52	15.10	-115.47	1,086.72	-445.82	1,289.47	1,258.90	30.57	42.175	
3,200.00	3,004.32	3,268.51	3,180.37	18.56	15.71	-116.96	1,098.59	-421.57	1,301.83	1,269.95	31.88	40.830	
3,300.00	3,088.01	3,364.75	3,273.42	19.61	16.25	-118.22	1,109.05	-399.33	1,314.10	1,280.98	33.12	39.675	
3,400.00	3,171.71	3,443.53	3,349.55	20.67	16.69	-119.21	1,118.29	-381.29	1,327.58	1,293.31	34.27	38.744	
3,500.00	3,255.41	3,520.49	3,424.02	21.73	17.12	-120.16	1,128.13	-364.56	1,343.07	1,307.69	35.38	37.963	
3,600.00	3,339.10	3,606.51	3,507.36	22.80	17.60	-121.18	1,139.59	-346.60	1,360.09	1,323.57	36.52	37.247	
3,700.00	3,422.80	3,709.96	3,607.80	23.87	18.16	-122.43	1,152.50	-325.44	1,377.76	1,340.04	37.71	36.535	
3,800.00	3,506.50	3,827.54	3,722.00	24.94	18.79	-123.88	1,165.15	-300.52	1,394.70	1,355.77	38.93	35.829	
3,900.00	3,590.20	3,922.13	3,813.88	26.02	19.31	-125.04	1,174.24	-279.95	1,411.36	1,371.36	40.00	35.284	
4,000.00	3,673.89	4,006.41	3,895.70	27.10	19.76	-126.04	1,182.86	-261.69	1,428.91	1,387.90	41.01	34.843	
4,100.00	3,757.59	4,089.02	3,976.08	28.18	20.20	-127.01	1,191.40	-244.62	1,447.93	1,405.94	41.99	34.484	
4,200.00	3,841.29	4,191.32	4,075.46	29.26	20.76	-128.13	1,203.07	-223.39	1,467.74	1,424.68	43.06	34.083	
4,300.00	3,924.99	4,313.39	4,193.24	30.35	21.45	-129.33	1,219.12	-195.63	1,486.63	1,442.36	44.27	33.581	
4,400.00	4,008.68	4,410.50	4,286.98	31.44	22.01	-130.30	1,230.47	-172.94	1,504.98	1,459.67	45.31	33.215	
4,500.00	4,092.38	4,571.29	4,441.34	32.52	22.98	-131.82	1,249.60	-132.29	1,522.22	1,475.59	46.63	32.646	
4,600.00	4,176.08	4,712.26	4,574.04	33.62	23.93	-132.91	1,269.92	-89.33	1,534.85	1,486.92	47.93	32.020	
4,700.00	4,259.77	4,765.00	4,623.45	34.71	24.30	-133.28	1,278.23	-72.87	1,548.06	1,499.20	48.87	31.679	
4,800.00	4,343.47	4,829.07	4,683.99	35.80	24.72	-133.74	1,288.26	-54.46	1,563.80	1,514.00	49.80	31.404	
4,900.00	4,427.17	4,888.10	4,740.38	36.89	25.09	-134.18	1,297.46	-39.64	1,582.83	1,532.19	50.65	31.253	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,510.87	4,976.26	4,824.94	37.99	25.63	-134.84	1,311.17	-18.84	1,603.64	1,552.01	51.63	31.061	
5,100.00	4,594.56	5,087.18	4,930.96	39.08	26.31	-135.62	1,329.00	8.46	1,623.78	1,571.03	52.75	30.780	
5,200.00	4,678.26	5,172.76	5,012.69	40.18	26.83	-136.19	1,343.18	29.53	1,644.26	1,590.53	53.72	30.606	
5,300.00	4,761.96	5,248.34	5,085.44	41.28	27.27	-136.77	1,353.64	47.14	1,665.85	1,611.29	54.57	30.530	
5,400.00	4,845.66	5,321.34	5,156.05	42.37	27.68	-137.34	1,363.08	63.04	1,689.03	1,633.68	55.35	30.517	
5,500.00	4,929.35	5,403.91	5,236.31	43.47	28.13	-138.02	1,372.47	80.00	1,713.49	1,657.36	56.13	30.526	
5,600.00	5,013.05	5,600.00	5,370.67	44.57	29.20	-139.18	1,386.41	109.72	1,737.21	1,679.78	57.43	30.251	
5,700.00	5,096.75	5,655.00	5,479.40	45.67	29.53	-140.04	1,399.03	136.80	1,758.80	1,700.69	58.11	30.266	
5,800.00	5,180.45	5,731.10	5,552.63	46.77	29.98	-140.55	1,409.37	154.71	1,781.46	1,722.56	58.90	30.244	
5,900.00	5,264.14	5,786.39	5,606.01	47.87	30.29	-140.91	1,417.03	166.90	1,805.86	1,746.32	59.55	30.327	
6,000.00	5,347.84	5,838.45	5,656.65	48.97	30.57	-141.27	1,423.61	177.06	1,832.75	1,772.63	60.12	30.486	
6,100.00	5,431.54	5,910.61	5,727.15	50.07	30.93	-141.79	1,431.98	189.91	1,861.46	1,800.69	60.77	30.631	
6,200.00	5,515.23	6,064.51	5,877.09	51.17	31.74	-142.87	1,449.22	219.98	1,888.31	1,826.38	61.93	30.489	
6,300.00	5,598.93	6,172.66	5,982.29	52.27	32.32	-143.60	1,461.13	242.02	1,915.08	1,852.28	62.80	30.495	
6,400.00	5,682.63	6,400.00	6,139.74	53.38	33.60	-144.73	1,476.61	279.06	1,939.66	1,875.48	64.17	30.225	
6,500.00	5,766.33	6,476.98	6,274.59	54.48	34.12	-145.41	1,498.86	316.53	1,960.56	1,895.49	65.07	30.129	
6,600.00	5,850.02	6,546.00	6,339.95	55.58	34.57	-145.66	1,512.25	334.19	1,982.59	1,916.68	65.90	30.083	
6,700.00	5,933.72	6,602.13	6,393.44	56.68	34.91	-145.88	1,522.73	347.63	2,006.28	1,939.67	66.61	30.119	
6,800.00	6,017.42	6,717.53	6,504.04	57.79	35.61	-146.40	1,541.12	374.87	2,030.74	1,963.10	67.64	30.023	
6,900.00	6,101.12	6,926.43	6,702.76	58.89	36.95	-147.43	1,569.99	432.33	2,051.04	1,981.99	69.05	29.702	
7,000.00	6,184.81	6,992.00	6,764.60	59.99	37.40	-147.71	1,580.22	451.56	2,070.06	2,000.24	69.82	29.650	
7,100.00	6,268.51	7,053.90	6,823.34	61.10	37.79	-147.99	1,589.45	468.79	2,090.73	2,020.21	70.52	29.647	
7,200.00	6,352.21	7,125.81	6,892.27	62.20	38.23	-148.37	1,597.63	487.53	2,113.28	2,042.09	71.19	29.684	
7,300.00	6,435.90	7,214.87	6,978.11	63.31	38.74	-148.97	1,603.11	510.56	2,136.50	2,064.68	71.82	29.748	
7,400.00	6,519.60	7,295.48	7,055.99	64.41	39.18	-149.58	1,604.92	531.29	2,160.33	2,088.00	72.33	29.868	
7,500.00	6,603.30	7,375.14	7,133.12	65.51	39.59	-150.23	1,604.40	551.20	2,185.27	2,112.50	72.77	30.030	
7,600.00	6,687.00	7,476.74	7,230.78	66.62	40.04	-151.28	1,594.31	577.06	2,210.63	2,137.60	73.03	30.270	
7,700.00	6,770.69	7,760.45	7,487.96	67.72	41.17	-155.35	1,514.84	664.05	2,232.03	2,159.89	72.14	30.940	
7,800.00	6,854.39	7,820.86	7,539.31	68.83	41.39	-156.36	1,490.79	684.85	2,252.33	2,180.16	72.17	31.209	
7,900.00	6,938.09	7,867.10	7,577.48	69.93	41.55	-157.19	1,469.76	700.30	2,275.21	2,202.99	72.22	31.502	
7,933.18	6,965.86	7,883.00	7,590.33	70.30	41.61	-157.48	1,461.97	705.50	2,283.42	2,211.19	72.22	31.616	
7,950.00	6,980.00	7,883.00	7,590.33	70.49	41.61	-160.24	1,461.97	705.50	2,287.68	2,215.41	72.27	31.654	
8,000.00	7,022.68	7,883.00	7,590.33	71.01	41.61	-169.14	1,461.97	705.50	2,300.70	2,228.30	72.40	31.776	
8,050.00	7,066.06	7,915.37	7,616.03	71.51	41.68	-179.45	1,445.14	715.67	2,313.58	2,241.23	72.35	31.978	
8,100.00	7,109.82	7,930.53	7,627.85	71.97	41.72	170.00	1,436.78	720.21	2,326.67	2,254.28	72.39	32.141	
8,150.00	7,153.63	7,946.11	7,639.82	72.38	41.76	159.42	1,427.89	724.72	2,339.69	2,267.26	72.42	32.306	
8,200.00	7,197.14	7,972.00	7,659.34	72.74	41.82	149.22	1,412.46	731.85	2,352.54	2,280.15	72.39	32.496	
8,250.00	7,240.04	7,972.00	7,659.34	73.05	41.82	140.16	1,412.46	731.85	2,364.96	2,292.46	72.50	32.620	
8,300.00	7,281.99	7,972.00	7,659.34	73.31	41.82	132.12	1,412.46	731.85	2,377.24	2,304.64	72.60	32.743	
8,350.00	7,322.67	8,007.90	7,685.57	73.52	41.86	124.95	1,389.69	740.91	2,388.46	2,315.94	72.52	32.935	
8,400.00	7,361.77	8,023.26	7,696.47	73.68	41.88	118.96	1,379.48	744.47	2,399.32	2,326.77	72.55	33.071	
8,450.00	7,399.01	8,061.00	7,722.40	73.78	41.93	113.84	1,353.22	752.37	2,409.79	2,337.33	72.46	33.258	
8,500.00	7,434.08	8,061.00	7,722.40	73.85	41.93	109.65	1,353.22	752.37	2,418.84	2,346.24	72.60	33.319	
8,550.00	7,466.74	8,061.00	7,722.40	73.87	41.93	106.11	1,353.22	752.37	2,427.34	2,354.58	72.76	33.362	
8,600.00	7,496.72	8,061.00	7,722.40	73.85	41.93	103.11	1,353.22	752.37	2,435.23	2,362.28	72.95	33.383	
8,650.00	7,523.80	8,061.00	7,722.40	73.79	41.93	100.59	1,353.22	752.37	2,442.45	2,369.28	73.17	33.380	
8,700.00	7,547.77	8,099.09	7,747.64	73.70	41.93	98.72	1,325.41	758.70	2,447.60	2,374.42	73.18	33.447	
8,750.00	7,568.45	8,109.49	7,754.43	73.58	41.93	97.13	1,317.65	760.07	2,452.51	2,379.11	73.40	33.413	
8,800.00	7,585.69	8,150.00	7,780.38	73.43	41.93	96.17	1,286.80	763.87	2,457.32	2,383.87	73.44	33.459	
8,850.00	7,599.35	8,150.00	7,780.38	73.26	41.93	95.23	1,286.80	763.87	2,459.81	2,386.00	73.81	33.325	
8,900.00	7,609.33	8,150.00	7,780.38	73.07	41.93	94.57	1,286.80	763.87	2,461.52	2,387.29	74.23	33.160	
8,950.00	7,615.55	8,150.00	7,780.38	72.87	41.93	94.18	1,286.80	763.87	2,462.43	2,387.73	74.70	32.965	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	8,150.00	7,780.38	72.65	41.93	94.06	1,286.80	763.87	2,462.53	2,387.32	75.21	32.742	
9,006.60	7,618.00	8,150.00	7,780.38	72.62	41.93	94.06	1,286.80	763.87	2,462.48	2,387.20	75.28	32.711	
9,054.15	7,618.00	8,184.86	7,801.76	72.41	41.89	94.56	1,259.32	765.77	2,462.02	2,386.53	75.49	32.614	
9,100.00	7,618.00	8,202.16	7,811.89	72.22	41.87	94.80	1,245.33	766.46	2,462.32	2,386.51	75.81	32.478	
9,200.00	7,618.00	8,246.02	7,836.12	71.80	41.83	95.36	1,208.79	767.46	2,464.98	2,388.51	76.46	32.237	
9,300.00	7,618.00	8,354.98	7,885.48	71.41	41.67	96.50	1,111.81	768.33	2,469.00	2,392.65	76.35	32.336	
9,400.00	7,618.00	8,457.12	7,913.23	71.04	41.51	97.14	1,013.65	767.56	2,472.80	2,396.59	76.21	32.446	
9,500.00	7,618.00	8,601.87	7,935.60	70.68	41.33	97.65	870.74	764.56	2,476.82	2,401.10	75.71	32.713	
9,600.00	7,618.00	8,683.20	7,941.40	70.35	41.26	97.78	789.66	762.78	2,479.59	2,403.65	75.94	32.651	
9,700.00	7,618.00	8,866.06	7,943.65	70.04	41.27	97.83	606.85	761.07	2,479.82	2,404.10	75.72	32.751	
9,800.00	7,618.00	9,001.45	7,937.72	69.75	41.43	97.69	471.60	761.70	2,478.28	2,402.13	76.15	32.545	
9,900.00	7,618.00	9,069.07	7,935.08	69.47	41.56	97.63	404.03	762.00	2,477.07	2,400.26	76.81	32.249	
9,919.47	7,618.00	9,079.10	7,934.79	69.42	41.58	97.63	394.01	761.94	2,477.03	2,400.08	76.95	32.190	
10,000.00	7,618.00	9,130.00	7,933.76	69.22	41.70	97.60	343.13	761.14	2,477.70	2,400.19	77.51	31.965	
10,100.00	7,618.00	9,236.08	7,932.36	68.99	42.00	97.57	237.08	759.27	2,478.95	2,400.56	78.39	31.622	
10,200.00	7,618.00	9,310.82	7,932.21	68.78	42.27	97.56	162.35	757.86	2,480.44	2,401.16	79.28	31.287	
10,300.00	7,618.00	9,530.41	7,933.06	68.59	43.40	97.58	-57.20	759.23	2,478.99	2,397.61	81.38	30.461	
10,400.00	7,618.00	9,630.85	7,932.55	68.42	44.09	97.58	-157.61	761.23	2,476.61	2,393.77	82.84	29.896	
10,500.00	7,618.00	9,697.27	7,934.13	68.28	44.58	97.62	-223.98	763.10	2,474.00	2,389.99	84.01	29.448	
10,562.86	7,618.00	9,723.03	7,934.77	68.20	44.77	97.64	-249.74	763.30	2,473.52	2,388.95	84.57	29.248	
10,600.00	7,618.00	9,754.00	7,935.47	68.16	45.02	97.65	-280.69	763.01	2,473.80	2,388.72	85.08	29.075	
10,700.00	7,618.00	9,789.75	7,936.17	68.06	45.29	97.67	-316.42	762.15	2,475.62	2,389.72	85.90	28.821	
10,800.00	7,618.00	9,855.80	7,937.07	67.99	45.81	97.68	-382.42	759.56	2,479.28	2,392.17	87.11	28.463	
10,900.00	7,618.00	9,962.94	7,937.21	67.95	46.72	97.67	-489.47	755.32	2,482.85	2,393.90	88.95	27.913	
11,000.00	7,618.00	10,021.00	7,938.48	67.95	47.24	97.69	-547.45	752.55	2,487.56	2,397.44	90.12	27.604	
11,100.00	7,618.00	10,089.58	7,941.42	67.97	47.87	97.75	-615.84	748.46	2,493.73	2,402.24	91.49	27.257	
11,200.00	7,618.00	10,239.13	7,946.87	68.04	49.33	97.85	-765.02	739.66	2,499.80	2,405.43	94.37	26.489	
11,300.00	7,618.00	10,397.32	7,949.38	68.15	51.04	97.89	-923.08	733.83	2,503.24	2,405.59	97.64	25.637	
11,400.00	7,618.00	10,466.00	7,951.88	68.30	51.82	97.94	-991.66	731.45	2,506.70	2,407.49	99.21	25.267	
11,500.00	7,618.00	10,832.55	7,966.23	68.50	56.47	98.29	-1,357.54	738.01	2,505.05	2,397.19	107.86	23.225	
11,600.00	7,618.00	10,884.00	7,966.43	68.75	57.18	98.30	-1,408.92	740.52	2,499.58	2,390.36	109.22	22.887	
11,700.00	7,618.00	10,985.40	7,966.36	69.06	58.57	98.31	-1,510.24	744.51	2,495.35	2,383.52	111.83	22.313	
11,800.00	7,618.00	11,088.51	7,966.22	69.44	60.02	98.33	-1,613.22	749.54	2,490.17	2,375.61	114.55	21.738	
11,900.00	7,618.00	11,152.00	7,966.16	69.88	60.92	98.34	-1,676.65	752.37	2,485.55	2,369.30	116.25	21.381	
12,000.00	7,618.00	11,209.21	7,966.13	70.39	61.72	98.34	-1,733.84	754.00	2,482.56	2,364.79	117.77	21.080	
12,079.12	7,618.00	11,241.00	7,966.09	70.84	62.17	98.34	-1,765.63	754.28	2,481.72	2,363.14	118.58	20.928	
12,100.00	7,618.00	11,241.00	7,966.09	70.97	62.17	98.34	-1,765.63	754.28	2,481.81	2,363.26	118.56	20.934	
12,200.00	7,618.00	11,294.78	7,966.01	71.63	62.91	98.34	-1,819.39	753.48	2,483.22	2,363.30	119.92	20.707	
12,300.00	7,618.00	11,344.92	7,965.93	72.35	63.61	98.33	-1,869.48	751.25	2,487.10	2,365.93	121.16	20.527	
12,400.00	7,618.00	11,636.42	7,965.34	73.15	67.79	98.31	-2,160.82	749.19	2,486.43	2,356.84	129.58	19.188	
12,500.00	7,618.00	11,722.94	7,965.18	74.01	69.08	98.32	-2,247.33	750.90	2,484.06	2,352.01	132.04	18.812	
12,600.00	7,618.00	11,874.82	7,963.82	74.93	71.38	98.30	-2,399.13	755.63	2,480.49	2,343.97	136.51	18.170	
12,700.00	7,618.00	11,971.48	7,962.01	75.91	72.87	98.28	-2,495.68	759.66	2,475.77	2,336.41	139.35	17.766	
12,800.00	7,618.00	12,025.64	7,960.99	76.95	73.71	98.26	-2,549.81	761.23	2,472.28	2,331.40	140.88	17.548	
12,900.00	7,618.00	12,074.18	7,960.07	78.04	74.45	98.24	-2,598.34	761.72	2,470.73	2,328.53	142.20	17.375	
12,921.80	7,618.00	12,084.19	7,959.88	78.28	74.60	98.24	-2,608.34	761.68	2,470.67	2,328.21	142.46	17.343	
13,000.00	7,618.00	12,132.00	7,958.98	79.16	75.32	98.21	-2,656.14	760.84	2,471.41	2,327.63	143.77	17.189	
13,100.00	7,618.00	12,278.48	7,956.18	80.33	77.56	98.15	-2,802.58	759.66	2,471.54	2,323.26	148.28	16.668	
13,200.00	7,618.00	12,371.94	7,954.46	81.54	79.01	98.11	-2,896.03	759.60	2,471.01	2,319.94	151.07	16.356	
13,300.00	7,618.00	12,551.20	7,952.96	82.78	81.83	98.08	-3,075.24	762.39	2,469.01	2,312.26	156.75	15.751	
13,400.00	7,618.00	12,646.38	7,952.64	84.05	83.35	98.09	-3,170.36	765.54	2,465.36	2,305.67	159.69	15.439	
13,500.00	7,618.00	12,750.29	7,952.27	85.35	85.01	98.09	-3,274.22	768.70	2,461.96	2,299.04	162.93	15.111	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,600.00	7,618.00	12,838.80	7,952.09	86.67	86.43	98.10	-3,362.70	771.37	2,458.62	2,292.96	165.66	14.841	
13,700.00	7,618.00	12,887.60	7,952.06	88.02	87.21	98.10	-3,411.48	772.26	2,456.52	2,289.49	167.02	14.708	
13,746.43	7,618.00	12,909.12	7,952.04	88.65	87.55	98.10	-3,433.01	772.30	2,456.28	2,288.68	167.60	14.656	
13,800.00	7,618.00	12,934.00	7,952.01	89.38	87.95	98.10	-3,457.89	772.06	2,456.59	2,288.35	168.24	14.601	
13,900.00	7,618.00	12,984.94	7,951.94	90.77	88.75	98.09	-3,508.80	770.76	2,458.76	2,289.20	169.57	14.500	
14,000.00	7,618.00	13,053.39	7,951.81	92.17	89.82	98.08	-3,577.19	767.62	2,462.83	2,291.33	171.50	14.361	
14,100.00	7,618.00	13,173.20	7,951.54	93.59	91.70	98.06	-3,696.88	762.29	2,466.86	2,291.49	175.37	14.067	
14,200.00	7,618.00	13,271.87	7,951.42	95.02	93.26	98.04	-3,795.47	758.39	2,470.42	2,291.96	178.46	13.843	
14,300.00	7,618.00	13,387.91	7,951.11	96.47	95.10	98.02	-3,911.42	753.92	2,473.88	2,291.65	182.23	13.576	
14,400.00	7,618.00	13,479.71	7,950.86	97.93	96.57	98.01	-4,003.16	750.51	2,477.18	2,292.09	185.09	13.384	
14,500.00	7,618.00	13,595.70	7,950.70	99.41	98.43	97.99	-4,119.08	746.58	2,480.17	2,291.29	188.88	13.131	
14,600.00	7,618.00	13,860.61	7,953.33	100.89	102.76	98.05	-4,383.88	745.82	2,481.40	2,283.26	198.14	12.524	
14,700.00	7,618.00	13,984.40	7,955.87	102.38	104.83	98.13	-4,507.55	750.89	2,477.37	2,275.13	202.23	12.250	
14,800.00	7,618.00	14,059.53	7,958.01	103.89	106.10	98.19	-4,582.56	754.48	2,472.77	2,268.13	204.64	12.083	
14,900.00	7,618.00	14,128.53	7,959.25	105.40	107.25	98.23	-4,651.51	756.63	2,469.57	2,262.76	206.81	11.941	
15,000.00	7,618.00	14,203.20	7,960.48	106.92	108.50	98.26	-4,726.15	758.16	2,467.45	2,258.30	209.16	11.797	
15,100.00	7,618.00	14,277.83	7,961.72	108.45	109.74	98.29	-4,800.77	758.91	2,466.36	2,254.87	211.49	11.662	
15,151.82	7,618.00	14,315.43	7,962.34	109.25	110.37	98.31	-4,838.37	758.99	2,466.21	2,253.57	212.64	11.598	
15,200.00	7,618.00	14,350.39	7,962.92	109.99	110.95	98.32	-4,873.32	758.86	2,466.34	2,252.63	213.71	11.540	
15,300.00	7,618.00	14,417.54	7,964.05	111.54	112.06	98.34	-4,940.45	757.99	2,467.53	2,251.83	215.70	11.440	
15,400.00	7,618.00	14,564.33	7,966.36	113.09	114.49	98.39	-5,087.20	755.91	2,469.00	2,248.19	220.81	11.182	
15,500.00	7,618.00	14,673.93	7,967.98	114.65	116.32	98.43	-5,196.79	756.19	2,468.61	2,244.14	224.47	10.998	
15,600.00	7,618.00	14,764.49	7,969.27	116.21	117.84	98.46	-5,287.35	756.30	2,468.36	2,240.96	227.41	10.854	
15,607.14	7,618.00	14,770.82	7,969.36	116.32	117.95	98.47	-5,293.68	756.30	2,468.36	2,240.75	227.61	10.845	
15,700.00	7,618.00	14,866.34	7,970.74	117.78	119.55	98.50	-5,389.18	756.12	2,468.42	2,237.64	230.78	10.696	
15,800.00	7,618.00	14,967.36	7,972.27	119.36	121.24	98.53	-5,490.19	756.21	2,468.23	2,234.09	234.13	10.542	
15,900.00	7,618.00	15,093.32	7,973.99	120.94	123.36	98.58	-5,616.14	757.05	2,467.40	2,228.95	238.45	10.348	
15,999.27	7,618.00	15,163.00	7,973.54	122.52	124.54	98.57	-5,685.81	757.23	2,466.75	2,226.14	240.60	10.252	
16,000.00	7,618.00	15,163.00	7,973.54	122.53	124.54	98.57	-5,685.81	757.23	2,466.75	2,226.15	240.60	10.252	
16,100.00	7,618.00	15,231.82	7,972.32	124.12	125.69	98.54	-5,754.61	756.42	2,467.34	2,224.66	242.68	10.167	
16,200.00	7,618.00	15,319.69	7,970.62	125.72	127.16	98.49	-5,842.44	754.36	2,469.02	2,223.51	245.51	10.057	
16,300.00	7,618.00	15,410.70	7,968.49	127.32	128.68	98.44	-5,933.39	751.95	2,470.96	2,222.49	248.47	9.945	
16,400.00	7,618.00	15,490.36	7,967.85	128.93	130.01	98.42	-6,013.02	749.57	2,473.48	2,222.53	250.95	9.857	
16,500.00	7,618.00	15,565.00	7,967.91	130.54	131.25	98.41	-6,087.60	746.72	2,476.94	2,223.75	253.20	9.783	
16,600.00	7,618.00	15,643.75	7,968.39	132.15	132.56	98.41	-6,166.26	742.93	2,481.43	2,225.83	255.60	9.708	
16,700.00	7,618.00	16,200.11	7,977.39	133.77	142.14	98.73	-6,719.23	774.27	2,469.52	2,194.27	275.24	8.972	
16,800.00	7,618.00	16,232.00	7,979.80	135.39	142.71	98.80	-6,750.72	778.63	2,457.20	2,180.52	276.67	8.881	
16,900.00	7,618.00	16,292.77	7,985.29	137.01	143.78	98.96	-6,810.81	785.77	2,446.84	2,168.00	278.84	8.775	
17,000.00	7,618.00	16,321.00	7,988.08	138.64	144.27	99.03	-6,838.77	788.53	2,438.92	2,159.08	279.84	8.715	
17,100.00	7,618.00	16,366.66	7,992.35	140.27	145.06	99.14	-6,884.11	791.78	2,433.44	2,152.18	281.26	8.652	
17,200.00	7,618.00	16,410.00	7,995.72	141.91	145.82	99.23	-6,927.30	793.14	2,430.88	2,148.42	282.46	8.606	
17,257.04	7,618.00	16,425.38	7,996.73	142.84	146.08	99.25	-6,942.64	793.28	2,430.51	2,147.80	282.71	8.597	
17,300.00	7,618.00	16,450.47	7,998.06	143.55	146.50	99.28	-6,967.70	793.31	2,430.69	2,147.28	283.41	8.577	
17,400.00	7,618.00	16,521.80	7,999.90	145.19	147.72	99.32	-7,038.99	792.15	2,432.28	2,146.73	285.55	8.518	
17,500.00	7,618.00	16,648.61	8,001.80	146.83	149.87	99.36	-7,165.77	790.30	2,433.62	2,143.57	290.05	8.390	
17,600.00	7,618.00	16,740.54	8,003.10	148.48	151.44	99.39	-7,257.69	789.39	2,434.50	2,141.43	293.07	8.307	
17,700.00	7,618.00	16,858.07	8,004.73	150.13	153.44	99.42	-7,375.20	788.04	2,435.56	2,138.38	297.17	8.196	
17,800.00	7,618.00	16,960.03	8,006.10	151.78	155.18	99.45	-7,477.15	787.50	2,435.96	2,135.34	300.63	8.103	
17,900.00	7,618.00	17,060.22	8,007.45	153.43	156.90	99.48	-7,577.32	786.86	2,436.48	2,132.47	304.01	8.015	
18,000.00	7,618.00	17,160.24	8,008.85	155.09	158.61	99.52	-7,677.34	786.69	2,436.55	2,129.16	307.38	7.927	
18,100.00	7,618.00	17,226.94	8,009.77	156.75	159.75	99.54	-7,744.02	785.96	2,437.55	2,128.21	309.34	7.880	
18,200.00	7,618.00	17,282.70	8,010.09	158.41	160.70	99.54	-7,799.76	784.32	2,440.21	2,129.45	310.76	7.852	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,300.00	7,618.00	17,339.54	8,009.83	160.07	161.65	99.52	-7,856.53	781.52	2,444.66	2,132.53	312.13	7.832	
18,400.00	7,618.00	17,390.00	8,009.27	161.74	162.50	99.50	-7,906.87	778.14	2,450.86	2,137.76	313.10	7.828	SF
18,500.00	7,618.00	17,442.64	8,008.50	163.41	163.37	99.46	-7,959.31	773.54	2,459.02	2,144.96	314.07	7.830	
18,600.00	7,618.00	17,479.00	8,007.94	165.08	163.97	99.43	-7,995.45	769.62	2,469.38	2,155.33	314.05	7.863	
18,700.00	7,618.00	17,521.38	8,007.68	166.75	164.65	99.41	-8,037.46	764.07	2,482.12	2,167.92	314.20	7.900	
18,711.30	7,618.00	17,525.28	8,007.69	166.94	164.72	99.41	-8,041.31	763.50	2,483.72	2,169.57	314.16	7.906	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-51.29	786.15	-980.82	1,257.05				
100.00	100.00	88.30	88.30	0.13	0.15	-51.28	786.30	-980.73	1,257.02	1,256.74	0.28	4,467.266	
200.00	200.00	187.50	187.50	0.49	0.31	-51.25	786.81	-980.43	1,257.11	1,256.30	0.80	1,561.698	
300.00	300.00	286.70	286.70	0.85	0.48	-51.21	787.69	-979.92	1,257.26	1,255.93	1.33	946.355	
400.00	400.00	384.89	384.87	1.21	0.77	-51.15	788.89	-979.26	1,257.50	1,255.52	1.98	635.395	
500.00	500.00	482.61	482.58	1.57	1.12	-51.08	790.30	-978.65	1,257.92	1,255.24	2.69	467.979	
600.00	600.00	580.32	580.28	1.93	1.47	-51.00	791.92	-978.10	1,258.52	1,255.13	3.40	370.479	
700.00	700.00	764.11	763.75	2.29	2.13	-50.64	795.11	-969.32	1,255.93	1,251.52	4.42	284.464	
800.00	800.00	932.81	930.51	2.64	2.79	-49.70	801.40	-945.02	1,247.13	1,241.73	5.40	230.772	
900.00	900.00	1,024.03	1,019.69	3.00	3.20	-48.93	807.84	-926.93	1,236.48	1,230.33	6.15	201.166	
1,000.00	999.98	1,130.63	1,122.65	3.36	3.72	-105.23	818.81	-901.69	1,225.75	1,218.76	6.99	175.271	
1,100.00	1,099.84	1,209.98	1,198.49	3.71	4.14	-104.54	829.95	-881.19	1,217.15	1,209.39	7.76	156.902	
1,200.00	1,199.45	1,300.66	1,284.59	4.07	4.65	-103.71	845.10	-857.09	1,211.00	1,202.38	8.62	140.444	
1,300.00	1,298.70	1,401.04	1,378.81	4.44	5.27	-102.76	863.72	-827.94	1,205.52	1,195.93	9.60	125.614	
1,400.00	1,397.47	1,485.07	1,457.56	4.82	5.80	-102.04	880.46	-803.89	1,202.36	1,191.85	10.52	114.330	
1,500.00	1,495.62	1,646.03	1,607.61	5.22	6.88	-100.80	911.42	-754.63	1,198.66	1,186.69	11.97	100.137	
1,600.00	1,593.06	1,715.53	1,672.13	5.65	7.37	-100.41	924.19	-732.18	1,193.77	1,180.87	12.89	92.589	
1,700.00	1,689.64	1,808.49	1,758.61	6.11	8.02	-99.97	942.27	-703.26	1,191.23	1,177.23	14.00	85.080	
1,800.00	1,785.27	1,938.93	1,880.13	6.61	8.94	-99.59	965.49	-661.96	1,187.66	1,172.27	15.39	77.166	
1,900.00	1,879.82	2,042.97	1,977.63	7.15	9.67	-99.57	982.22	-629.74	1,184.06	1,167.43	16.63	71.201	
2,000.00	1,973.17	2,165.30	2,092.87	7.73	10.50	-99.87	999.21	-592.40	1,179.75	1,161.75	18.00	65.555	
2,100.00	2,065.21	2,243.77	2,167.15	8.37	11.02	-100.27	1,009.25	-569.19	1,175.90	1,156.77	19.13	61.463	
2,200.00	2,155.84	2,348.12	2,266.48	9.07	11.68	-101.00	1,022.30	-540.00	1,173.68	1,153.24	20.44	57.430	
2,300.00	2,244.94	2,448.10	2,362.05	9.82	12.31	-101.94	1,033.27	-512.74	1,171.72	1,149.99	21.74	53.904	
2,352.59	2,291.14	2,489.95	2,402.07	10.25	12.56	-102.38	1,037.98	-501.48	1,171.36	1,148.97	22.39	52.318	CC
2,400.00	2,332.39	2,527.61	2,438.10	10.64	12.80	-102.79	1,042.52	-491.47	1,171.66	1,148.69	22.97	51.000	ES
2,500.00	2,418.11	2,607.14	2,514.19	11.53	13.29	-103.69	1,052.87	-470.80	1,174.30	1,150.04	24.25	48.419	
2,558.91	2,467.74	2,653.66	2,558.72	12.08	13.58	-104.24	1,059.39	-459.02	1,177.16	1,152.14	25.02	47.050	
2,600.00	2,502.13	2,686.67	2,590.32	12.47	13.78	-104.69	1,064.23	-450.79	1,179.68	1,154.12	25.56	46.150	
2,700.00	2,585.83	2,786.73	2,686.11	13.45	14.39	-106.02	1,079.09	-425.99	1,186.49	1,159.49	27.00	43.942	
2,800.00	2,669.53	2,914.22	2,807.77	14.44	15.20	-107.68	1,096.86	-392.31	1,192.09	1,163.49	28.60	41.680	
2,900.00	2,753.22	3,022.36	2,910.61	15.46	15.89	-109.04	1,111.12	-362.05	1,196.68	1,166.60	30.09	39.774	
3,000.00	2,836.92	3,138.31	3,020.69	16.48	16.65	-110.50	1,125.53	-328.62	1,200.77	1,169.17	31.60	38.001	
3,100.00	2,920.62	3,230.19	3,107.20	17.52	17.29	-111.55	1,138.11	-300.31	1,204.54	1,171.52	33.02	36.477	
3,200.00	3,004.32	3,292.05	3,165.28	18.56	17.72	-112.20	1,148.15	-281.57	1,210.57	1,176.29	34.28	35.315	
3,300.00	3,088.01	3,413.41	3,279.27	19.61	18.56	-113.44	1,168.89	-245.46	1,218.03	1,182.15	35.88	33.949	
3,400.00	3,171.71	3,506.46	3,366.53	20.67	19.22	-114.38	1,184.09	-216.98	1,224.63	1,187.34	37.29	32.837	
3,500.00	3,255.41	3,590.03	3,444.58	21.73	19.82	-115.17	1,199.01	-191.08	1,232.08	1,193.42	38.66	31.872	
3,600.00	3,339.10	3,663.00	3,513.20	22.80	20.33	-115.88	1,212.13	-170.04	1,241.69	1,201.77	39.91	31.109	
3,700.00	3,422.80	3,769.33	3,613.67	23.87	21.04	-116.96	1,230.56	-140.51	1,252.35	1,211.01	41.34	30.296	
3,800.00	3,506.50	3,858.22	3,697.77	24.94	21.63	-117.87	1,245.32	-115.81	1,263.02	1,220.40	42.62	29.636	
3,900.00	3,590.20	3,930.51	3,766.45	26.02	22.10	-118.63	1,257.43	-96.74	1,275.39	1,231.63	43.76	29.147	
4,000.00	3,673.89	4,011.46	3,843.69	27.10	22.60	-119.48	1,271.20	-76.83	1,289.81	1,244.90	44.91	28.722	
4,100.00	3,757.59	4,125.13	3,952.71	28.18	23.29	-120.74	1,288.72	-49.87	1,304.87	1,258.66	46.20	28.241	
4,200.00	3,841.29	4,253.31	4,075.73	29.26	24.07	-122.22	1,305.13	-17.81	1,318.17	1,270.67	47.50	27.750	
4,300.00	3,924.99	4,350.94	4,169.06	30.35	24.67	-123.33	1,316.82	8.32	1,330.06	1,281.45	48.61	27.360	
4,400.00	4,008.68	4,422.38	4,237.90	31.44	25.10	-124.19	1,324.59	25.75	1,344.16	1,294.62	49.54	27.133	
4,500.00	4,092.38	4,534.88	4,346.21	32.52	25.76	-125.50	1,336.89	53.60	1,358.53	1,307.90	50.63	26.831	
4,600.00	4,176.08	4,616.78	4,424.56	33.62	26.26	-126.35	1,347.83	74.76	1,373.29	1,321.68	51.61	26.609	
4,700.00	4,259.77	4,691.38	4,496.35	34.71	26.71	-127.14	1,357.57	92.53	1,390.15	1,337.65	52.51	26.476	
4,800.00	4,343.47	4,866.74	4,664.19	35.80	27.78	-128.91	1,380.08	137.91	1,405.77	1,351.87	53.90	26.082	
4,900.00	4,427.17	4,927.91	4,722.65	36.89	28.17	-129.54	1,386.83	154.61	1,419.72	1,365.00	54.72	25.946	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,510.87	4,988.02	4,780.54	37.99	28.52	-130.18	1,393.28	169.46	1,436.47	1,381.00	55.46	25.900	
5,100.00	4,594.56	5,075.82	4,865.23	39.08	29.04	-131.05	1,404.51	189.67	1,455.71	1,399.37	56.34	25.837	
5,200.00	4,678.26	5,177.98	4,962.97	40.18	29.66	-131.92	1,420.07	215.00	1,474.21	1,416.84	57.36	25.699	
5,300.00	4,761.96	5,244.16	5,026.39	41.28	30.05	-132.47	1,430.42	230.82	1,494.06	1,435.92	58.14	25.698	
5,400.00	4,845.66	5,307.32	5,087.45	42.37	30.42	-133.03	1,439.65	244.09	1,516.55	1,457.72	58.83	25.779	
5,500.00	4,929.35	5,443.27	5,218.99	43.47	31.18	-134.26	1,457.33	273.50	1,538.46	1,478.51	59.94	25.664	
5,600.00	5,013.05	5,589.34	5,359.42	44.57	32.04	-135.52	1,475.79	309.14	1,558.03	1,496.95	61.08	25.506	
5,700.00	5,096.75	5,653.00	5,420.38	45.67	32.44	-136.03	1,484.37	325.36	1,577.27	1,515.48	61.79	25.526	
5,800.00	5,180.45	5,710.35	5,475.63	46.77	32.76	-136.50	1,491.95	338.70	1,598.94	1,536.54	62.40	25.624	
5,900.00	5,264.14	5,771.22	5,534.82	47.87	33.09	-137.03	1,499.33	350.85	1,623.58	1,560.62	62.96	25.787	
6,000.00	5,347.84	5,869.74	5,631.05	48.97	33.60	-137.93	1,509.19	369.50	1,649.42	1,585.72	63.69	25.896	
6,100.00	5,431.54	6,003.81	5,761.23	50.07	34.32	-139.03	1,525.07	397.31	1,674.08	1,609.38	64.70	25.874	
6,200.00	5,515.23	6,127.25	5,879.76	51.17	35.05	-139.86	1,543.41	426.41	1,696.38	1,630.63	65.75	25.800	
6,300.00	5,598.93	6,194.27	5,944.30	52.27	35.44	-140.31	1,552.95	441.80	1,719.59	1,653.18	66.41	25.894	
6,400.00	5,682.63	6,277.99	6,025.14	53.38	35.92	-140.88	1,564.70	460.09	1,744.09	1,676.94	67.15	25.973	
6,500.00	5,766.33	6,344.23	6,089.26	54.48	36.28	-141.32	1,574.07	473.83	1,769.87	1,702.12	67.75	26.123	
6,600.00	5,850.02	6,430.65	6,173.32	55.58	36.74	-141.92	1,585.01	490.63	1,797.02	1,728.57	68.45	26.254	
6,700.00	5,933.72	6,575.76	6,314.29	56.68	37.52	-142.92	1,602.47	520.22	1,823.68	1,754.16	69.52	26.234	
6,800.00	6,017.42	6,782.78	6,512.96	57.79	38.78	-144.28	1,626.98	572.84	1,845.08	1,774.22	70.86	26.038	
6,900.00	6,101.12	6,855.20	6,581.68	58.89	39.24	-144.67	1,637.52	593.12	1,864.67	1,793.09	71.58	26.050	
7,000.00	6,184.81	6,913.39	6,637.29	59.99	39.61	-144.99	1,645.92	608.06	1,886.54	1,814.34	72.19	26.131	
7,100.00	6,268.51	6,991.00	6,711.72	61.10	40.08	-145.43	1,656.29	627.43	1,909.44	1,836.56	72.88	26.201	
7,200.00	6,352.21	7,054.86	6,773.28	62.20	40.45	-145.82	1,663.94	642.58	1,933.82	1,860.39	73.43	26.337	
7,300.00	6,435.90	7,107.25	6,824.14	63.31	40.74	-146.14	1,669.67	653.75	1,960.54	1,886.68	73.86	26.545	
7,400.00	6,519.60	7,169.00	6,884.44	64.41	41.05	-146.54	1,675.84	665.56	1,989.48	1,915.18	74.30	26.775	
7,500.00	6,603.30	7,463.74	7,163.24	65.51	42.23	-150.28	1,634.68	737.70	2,011.99	1,937.92	74.07	27.163	
7,600.00	6,687.00	7,493.16	7,189.64	66.62	42.31	-150.80	1,624.35	745.60	2,035.32	1,961.23	74.09	27.470	
7,700.00	6,770.69	7,525.00	7,218.49	67.72	42.41	-151.35	1,613.40	753.41	2,062.15	1,988.11	74.03	27.855	
7,800.00	6,854.39	7,556.45	7,247.09	68.83	42.47	-151.90	1,602.38	760.47	2,092.24	2,018.34	73.90	28.310	
7,900.00	6,938.09	7,589.16	7,276.69	69.93	42.54	-152.48	1,590.21	767.21	2,125.44	2,051.74	73.70	28.838	
7,933.18	6,965.86	7,614.00	7,299.06	70.30	42.59	-152.93	1,580.51	771.93	2,137.24	2,063.67	73.57	29.051	
7,950.00	6,980.00	7,614.00	7,299.06	70.49	42.59	-155.89	1,580.51	771.93	2,143.22	2,069.67	73.55	29.139	
8,000.00	7,022.68	7,635.36	7,318.21	71.01	42.62	-165.75	1,571.89	775.86	2,161.47	2,088.04	73.42	29.438	
8,050.00	7,066.06	7,685.10	7,362.41	71.51	42.71	-176.86	1,551.09	785.22	2,179.65	2,106.43	73.22	29.770	
8,100.00	7,109.82	7,703.00	7,378.18	71.97	42.74	172.02	1,543.35	788.66	2,197.59	2,124.45	73.14	30.046	
8,150.00	7,153.63	7,739.94	7,410.37	72.38	42.78	160.69	1,526.61	795.57	2,215.21	2,142.20	73.01	30.341	
8,200.00	7,197.14	7,762.85	7,430.04	72.74	42.81	150.05	1,515.58	799.63	2,232.65	2,159.72	72.94	30.611	
8,250.00	7,240.04	7,792.00	7,454.71	73.05	42.85	140.28	1,500.86	804.54	2,249.68	2,176.83	72.85	30.880	
8,300.00	7,281.99	7,855.16	7,506.22	73.31	42.91	131.49	1,466.01	815.45	2,265.74	2,193.13	72.61	31.202	
8,350.00	7,322.67	7,932.86	7,565.64	73.52	42.97	123.85	1,418.23	830.34	2,279.93	2,207.65	72.28	31.542	
8,400.00	7,361.77	8,400.00	7,598.96	73.68	43.64	117.58	1,389.22	839.48	2,292.38	2,219.68	72.70	31.531	
8,450.00	7,399.01	7,996.60	7,611.78	73.78	43.01	112.39	1,376.20	843.20	2,303.79	2,231.66	72.13	31.940	
8,500.00	7,434.08	8,014.28	7,623.62	73.85	43.01	108.02	1,363.50	846.48	2,314.31	2,242.16	72.14	32.080	
8,550.00	7,466.74	8,031.98	7,634.92	73.87	43.02	104.36	1,350.24	849.56	2,323.83	2,251.66	72.17	32.199	
8,600.00	7,496.72	8,059.00	7,651.09	73.85	43.03	101.31	1,329.02	853.86	2,332.34	2,260.19	72.15	32.327	
8,650.00	7,523.80	8,059.00	7,651.09	73.79	43.03	98.79	1,329.02	853.86	2,339.68	2,267.31	72.36	32.332	
8,700.00	7,547.77	8,090.86	7,668.53	73.70	43.00	96.78	1,302.75	858.39	2,345.72	2,273.37	72.35	32.423	
8,750.00	7,568.45	8,112.50	7,679.43	73.58	42.99	95.19	1,284.27	861.17	2,350.53	2,278.09	72.44	32.447	
8,800.00	7,585.69	8,148.00	7,695.60	73.43	42.97	94.05	1,252.93	865.20	2,354.12	2,281.70	72.42	32.505	
8,850.00	7,599.35	8,161.40	7,701.22	73.26	42.95	93.21	1,240.84	866.57	2,356.17	2,283.51	72.66	32.426	
8,900.00	7,609.33	8,198.21	7,715.83	73.07	42.90	92.85	1,207.26	870.22	2,356.74	2,284.04	72.70	32.419	
8,950.00	7,615.55	8,237.00	7,729.94	72.87	42.87	92.87	1,171.31	873.85	2,355.67	2,282.93	72.74	32.386	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	8,266.34	7,739.86	72.65	42.83	93.21	1,143.82	876.40	2,353.04	2,280.12	72.93	32.266	
9,006.60	7,618.00	8,270.41	7,741.20	72.62	42.82	93.28	1,139.99	876.74	2,352.59	2,279.64	72.95	32.248	
9,100.00	7,618.00	8,327.00	7,758.92	72.22	42.76	93.72	1,086.42	881.02	2,346.74	2,273.42	73.32	32.006	
9,200.00	7,618.00	8,376.59	7,772.60	71.80	42.70	94.06	1,038.84	883.85	2,342.44	2,268.58	73.86	31.715	
9,300.00	7,618.00	8,416.00	7,781.93	71.41	42.66	94.29	1,000.58	885.28	2,340.42	2,265.93	74.49	31.420	
9,335.21	7,618.00	8,439.22	7,786.65	71.28	42.62	94.40	977.85	885.72	2,340.23	2,265.60	74.63	31.359	
9,400.00	7,618.00	8,466.64	7,791.27	71.04	42.58	94.52	950.83	885.77	2,340.75	2,265.75	75.01	31.207	
9,500.00	7,618.00	8,558.69	7,799.96	70.68	42.47	94.72	859.25	883.57	2,343.48	2,268.42	75.07	31.219	
9,600.00	7,618.00	9,600.00	7,803.90	70.35	95.32	94.83	647.39	885.55	2,341.59	2,259.32	82.26	28.464	
9,700.00	7,618.00	8,834.90	7,804.85	70.04	42.46	94.85	583.15	887.11	2,339.17	2,264.20	74.96	31.205	
9,756.00	7,618.00	8,861.00	7,804.98	69.87	42.49	94.86	557.05	887.22	2,338.79	2,263.46	75.33	31.048	
9,800.00	7,618.00	8,885.35	7,804.97	69.75	42.50	94.86	532.71	887.05	2,338.95	2,263.35	75.60	30.938	
9,900.00	7,618.00	8,950.00	7,804.26	69.47	42.57	94.84	468.08	885.37	2,340.92	2,264.70	76.22	30.714	
10,000.00	7,618.00	9,022.36	7,803.62	69.22	42.66	94.81	395.79	882.52	2,344.27	2,267.39	76.88	30.492	
10,100.00	7,618.00	9,186.41	7,803.21	68.99	43.05	94.80	231.78	879.13	2,345.68	2,267.91	77.77	30.163	
10,200.00	7,618.00	9,307.83	7,802.73	68.78	43.50	94.79	110.37	878.04	2,346.24	2,267.34	78.90	29.737	
10,300.00	7,618.00	9,423.15	7,803.35	68.59	44.05	94.80	-4.95	878.20	2,345.81	2,265.57	80.24	29.235	
10,400.00	7,618.00	9,525.55	7,803.10	68.42	44.65	94.80	-107.34	878.83	2,344.84	2,263.21	81.63	28.726	
10,500.00	7,618.00	9,621.16	7,802.13	68.28	45.30	94.78	-202.95	879.07	2,344.16	2,261.09	83.06	28.222	
10,582.72	7,618.00	9,687.86	7,800.86	68.17	45.78	94.74	-269.64	879.15	2,343.69	2,259.53	84.17	27.846	
10,600.00	7,618.00	9,697.63	7,800.56	68.16	45.86	94.74	-279.40	879.07	2,343.72	2,259.38	84.34	27.788	
10,700.00	7,618.00	9,759.26	7,797.75	68.06	46.34	94.67	-340.95	877.82	2,344.97	2,259.51	85.46	27.439	
10,800.00	7,618.00	9,986.40	7,796.71	67.99	48.39	94.65	-567.92	879.34	2,343.56	2,254.31	89.25	26.258	
10,900.00	7,618.00	10,079.20	7,799.95	67.95	49.35	94.73	-660.61	882.46	2,340.16	2,248.99	91.17	25.668	
11,000.00	7,618.00	10,184.38	7,803.43	67.95	50.50	94.82	-765.69	885.69	2,337.03	2,243.63	93.41	25.020	
11,100.00	7,618.00	10,293.38	7,806.77	67.97	51.74	94.91	-874.57	889.52	2,333.46	2,237.64	95.82	24.353	
11,200.00	7,618.00	10,386.75	7,808.49	68.04	52.85	94.96	-967.87	892.54	2,330.04	2,232.08	97.96	23.786	
11,300.00	7,618.00	10,501.40	7,810.65	68.15	54.26	95.03	-1,082.38	897.77	2,325.18	2,224.52	100.67	23.098	
11,400.00	7,618.00	10,554.00	7,811.05	68.30	54.92	95.04	-1,134.96	899.16	2,322.19	2,220.26	101.93	22.782	
11,500.00	7,618.00	10,624.62	7,810.81	68.50	55.80	95.04	-1,205.57	899.79	2,320.89	2,217.26	103.62	22.397	
11,593.46	7,618.00	10,699.51	7,810.13	68.73	56.75	95.02	-1,280.46	899.76	2,320.53	2,215.09	105.44	22.008	
11,600.00	7,618.00	10,704.82	7,810.07	68.75	56.82	95.02	-1,285.77	899.74	2,320.53	2,214.96	105.57	21.982	
11,700.00	7,618.00	10,801.98	7,808.80	69.06	58.06	94.99	-1,382.92	899.07	2,320.76	2,212.78	107.97	21.494	
11,800.00	7,618.00	10,908.95	7,806.55	69.44	59.47	94.93	-1,489.86	898.48	2,320.79	2,210.10	110.69	20.967	
11,900.00	7,618.00	11,013.22	7,801.63	69.88	60.86	94.81	-1,594.01	897.90	2,320.60	2,207.24	113.37	20.470	
12,000.00	7,618.00	11,119.07	7,794.51	70.39	62.31	94.64	-1,699.62	897.42	2,320.16	2,204.04	116.13	19.980	
12,100.00	7,618.00	11,209.40	7,787.91	70.97	63.56	94.47	-1,789.71	896.98	2,319.74	2,201.26	118.48	19.579	
12,116.53	7,618.00	11,223.26	7,786.86	71.08	63.76	94.45	-1,803.53	896.86	2,319.73	2,200.88	118.84	19.519	
12,200.00	7,618.00	11,306.05	7,780.43	71.63	64.92	94.29	-1,886.06	896.02	2,319.80	2,198.76	121.05	19.165	
12,300.00	7,618.00	11,407.60	7,772.20	72.35	66.36	94.08	-1,987.27	895.07	2,319.80	2,196.01	123.79	18.740	
12,400.00	7,618.00	11,524.58	7,761.26	73.15	68.04	93.81	-2,103.73	894.29	2,319.50	2,192.47	127.03	18.260	
12,500.00	7,618.00	11,623.29	7,751.02	74.01	69.48	93.56	-2,201.91	894.30	2,318.48	2,188.73	129.75	17.869	
12,543.82	7,618.00	11,652.27	7,748.84	74.41	69.91	93.51	-2,230.81	894.16	2,318.34	2,187.82	130.51	17.763	
12,600.00	7,618.00	11,706.45	7,746.31	74.93	70.70	93.44	-2,284.92	893.64	2,318.52	2,186.48	132.05	17.558	
12,700.00	7,618.00	11,819.83	7,743.23	75.91	72.39	93.37	-2,398.26	893.89	2,317.74	2,182.36	135.38	17.121	
12,742.40	7,618.00	11,850.96	7,743.03	76.35	72.85	93.36	-2,429.39	893.85	2,317.63	2,181.38	136.25	17.010	
12,800.00	7,618.00	11,899.30	7,743.29	76.95	73.57	93.37	-2,477.73	893.59	2,317.76	2,180.12	137.64	16.839	
12,900.00	7,618.00	12,000.56	7,745.31	78.04	75.09	93.42	-2,578.97	892.80	2,318.32	2,177.65	140.67	16.480	
13,000.00	7,618.00	12,144.18	7,748.31	79.16	77.28	93.50	-2,722.55	893.53	2,317.55	2,172.35	145.19	15.962	
13,100.00	7,618.00	12,215.00	7,750.92	80.33	78.37	93.56	-2,793.31	894.07	2,316.66	2,169.42	147.25	15.733	
13,200.00	7,618.00	12,342.88	7,756.64	81.54	80.36	93.71	-2,921.06	895.19	2,315.72	2,164.39	151.33	15.303	
13,300.00	7,618.00	12,463.45	7,761.76	82.78	82.25	93.84	-3,041.50	897.37	2,313.87	2,158.69	155.18	14.911	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,400.00	7,618.00	12,547.54	7,765.39	84.05	83.58	93.93	-3,125.49	899.16	2,311.72	2,153.96	157.75	14.654	
13,500.00	7,618.00	12,662.53	7,771.27	85.35	85.40	94.08	-3,240.31	901.20	2,310.00	2,148.54	161.46	14.307	
13,600.00	7,618.00	12,726.84	7,774.62	86.67	86.42	94.16	-3,304.52	902.20	2,308.48	2,145.15	163.33	14.134	
13,700.00	7,618.00	12,827.01	7,780.33	88.02	88.01	94.31	-3,404.53	902.77	2,307.99	2,141.47	166.52	13.860	
13,800.00	7,618.00	12,946.21	7,786.97	89.38	89.92	94.48	-3,523.53	904.59	2,306.51	2,136.07	170.44	13.533	
13,900.00	7,618.00	13,017.00	7,791.32	90.77	91.06	94.59	-3,594.18	905.19	2,305.74	2,133.18	172.56	13.362	
14,000.00	7,618.00	13,139.17	7,798.62	92.17	93.03	94.77	-3,716.13	906.06	2,305.23	2,128.60	176.62	13.052	
14,100.00	7,618.00	13,233.29	7,803.66	93.59	94.55	94.90	-3,810.11	907.59	2,303.74	2,124.11	179.63	12.825	
14,161.17	7,618.00	13,273.34	7,805.52	94.47	95.20	94.94	-3,850.11	907.83	2,303.41	2,122.61	180.80	12.740	
14,200.00	7,618.00	13,299.84	7,806.60	95.02	95.63	94.97	-3,876.59	907.78	2,303.49	2,121.91	181.58	12.686	
14,300.00	7,618.00	13,374.00	7,808.61	96.47	96.82	95.02	-3,950.71	906.87	2,304.58	2,120.80	183.78	12.540	
14,400.00	7,618.00	13,478.66	7,809.17	97.93	98.50	95.03	-4,055.35	904.87	2,306.20	2,119.02	187.18	12.321	
14,500.00	7,618.00	13,580.89	7,807.65	99.41	100.15	94.99	-4,157.55	903.26	2,307.29	2,116.82	190.47	12.113	
14,600.00	7,618.00	13,852.71	7,809.77	100.89	104.61	95.05	-4,429.20	907.27	2,306.77	2,106.54	200.23	11.521	
14,700.00	7,618.00	13,931.48	7,811.32	102.38	105.94	95.10	-4,507.83	911.69	2,301.02	2,098.25	202.77	11.348	
14,800.00	7,618.00	13,997.00	7,812.30	103.89	107.04	95.13	-4,573.27	914.66	2,296.37	2,091.58	204.79	11.213	
14,900.00	7,618.00	14,043.83	7,812.67	105.40	107.81	95.14	-4,620.09	915.87	2,293.67	2,087.63	206.04	11.132	
14,947.91	7,618.00	14,064.18	7,812.76	106.13	108.15	95.15	-4,640.44	915.98	2,293.27	2,086.74	206.52	11.104	
15,000.00	7,618.00	14,086.00	7,812.81	106.92	108.51	95.15	-4,662.25	915.82	2,293.48	2,086.48	207.00	11.079	
15,100.00	7,618.00	14,154.12	7,812.14	108.45	109.62	95.13	-4,730.35	914.32	2,295.25	2,086.30	208.95	10.985	
15,200.00	7,618.00	14,263.37	7,810.81	109.99	111.40	95.09	-4,839.54	911.05	2,297.81	2,085.21	212.61	10.808	
15,300.00	7,618.00	14,381.16	7,812.07	111.54	113.34	95.12	-4,957.29	908.69	2,299.57	2,082.93	216.64	10.615	
15,400.00	7,618.00	14,493.65	7,812.36	113.09	115.20	95.12	-5,069.78	907.43	2,300.35	2,079.89	220.46	10.434	
15,500.00	7,618.00	14,601.66	7,814.00	114.65	116.99	95.16	-5,177.77	906.44	2,301.07	2,076.97	224.11	10.268	
15,600.00	7,618.00	14,734.66	7,815.53	116.21	119.21	95.20	-5,310.76	906.57	2,300.73	2,071.95	228.78	10.057	
15,700.00	7,618.00	14,835.76	7,816.90	117.78	120.90	95.24	-5,411.84	907.61	2,299.50	2,067.34	232.16	9.905	
15,800.00	7,618.00	14,932.34	7,818.74	119.36	122.52	95.29	-5,508.40	908.23	2,298.69	2,063.32	235.37	9.766	
15,900.00	7,618.00	15,027.29	7,820.40	120.94	124.12	95.33	-5,603.33	909.06	2,297.65	2,059.14	238.51	9.633	
16,000.00	7,618.00	15,129.29	7,824.31	122.53	125.84	95.43	-5,705.26	909.59	2,297.16	2,055.21	241.95	9.494	
16,100.00	7,618.00	15,244.90	7,827.65	124.12	127.79	95.52	-5,820.81	910.89	2,295.97	2,050.02	245.95	9.335	
16,200.00	7,618.00	15,340.06	7,829.36	125.72	129.40	95.56	-5,915.95	912.06	2,294.58	2,045.46	249.12	9.211	
16,300.00	7,618.00	15,432.80	7,830.71	127.32	130.97	95.60	-6,008.67	912.91	2,293.48	2,041.29	252.19	9.094	
16,361.81	7,618.00	15,473.02	7,831.45	128.31	131.65	95.62	-6,048.89	913.02	2,293.20	2,039.83	253.37	9.051	
16,400.00	7,618.00	15,498.35	7,832.03	128.93	132.08	95.63	-6,074.21	912.92	2,293.31	2,039.20	254.11	9.025	
16,500.00	7,618.00	15,596.95	7,834.81	130.54	133.74	95.70	-6,172.76	912.06	2,294.12	2,036.71	257.41	8.912	
16,600.00	7,618.00	15,737.36	7,839.45	132.15	136.12	95.82	-6,313.09	912.53	2,293.74	2,031.25	262.49	8.738	
16,700.00	7,618.00	15,843.54	7,842.48	133.77	137.93	95.90	-6,419.22	913.93	2,292.37	2,026.25	266.13	8.614	
16,800.00	7,618.00	15,956.12	7,845.89	135.39	139.85	95.99	-6,531.73	915.71	2,290.79	2,020.76	270.03	8.483	
16,900.00	7,618.00	16,028.45	7,847.85	137.01	141.08	96.04	-6,604.04	916.71	2,289.38	2,017.11	272.27	8.408	
17,000.00	7,618.00	16,116.39	7,849.93	138.64	142.58	96.09	-6,691.95	916.91	2,289.05	2,013.90	275.15	8.319	
17,100.00	7,618.00	16,269.59	7,853.87	140.27	145.20	96.20	-6,845.08	918.63	2,287.98	2,007.23	280.75	8.150	
17,200.00	7,618.00	16,366.03	7,855.02	141.91	146.85	96.23	-6,941.48	921.28	2,285.05	2,001.05	284.00	8.046	
17,300.00	7,618.00	16,437.34	7,855.34	143.55	148.07	96.24	-7,012.78	922.24	2,283.39	1,997.17	286.22	7.978	
17,400.00	7,618.00	16,524.58	7,855.64	145.19	149.56	96.25	-7,100.02	922.67	2,282.60	1,993.52	289.07	7.896	
17,500.00	7,618.00	16,619.45	7,855.92	146.83	151.18	96.26	-7,194.89	922.83	2,282.12	1,989.87	292.25	7.809	
17,600.00	7,618.00	16,718.32	7,856.47	148.48	152.87	96.28	-7,293.76	922.78	2,281.90	1,986.30	295.60	7.720	
17,700.00	7,618.00	16,828.96	7,858.04	150.13	154.76	96.32	-7,404.38	923.16	2,281.38	1,981.92	299.46	7.618	
17,800.00	7,618.00	16,955.72	7,860.46	151.78	156.94	96.38	-7,531.11	924.62	2,280.12	1,976.13	303.99	7.501	
17,900.00	7,618.00	17,077.60	7,862.53	153.43	159.05	96.44	-7,652.94	927.42	2,277.69	1,969.39	308.30	7.388	
18,000.00	7,618.00	17,191.08	7,864.23	155.09	161.01	96.50	-7,766.36	930.90	2,274.46	1,962.20	312.26	7.284	
18,100.00	7,618.00	17,283.11	7,864.97	156.75	162.60	96.53	-7,858.34	933.82	2,271.08	1,955.71	315.36	7.201	
18,200.00	7,618.00	17,366.17	7,865.22	158.41	164.04	96.54	-7,941.37	935.89	2,268.30	1,950.20	318.10	7.131	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,300.00	7,618.00	17,449.89	7,865.41	160.07	165.49	96.55	-8,025.08	937.33	2,266.28	1,945.43	320.84	7.063	
18,400.00	7,618.00	17,546.46	7,866.38	161.74	167.15	96.58	-8,121.63	938.58	2,264.77	1,940.65	324.12	6.987	
18,500.00	7,618.00	17,630.75	7,867.44	163.41	168.60	96.61	-8,205.91	939.50	2,263.51	1,936.64	326.87	6.925	
18,600.00	7,618.00	17,715.72	7,868.31	165.08	170.07	96.63	-8,290.88	939.69	2,263.05	1,933.42	329.63	6.865	
18,629.93	7,618.00	17,741.98	7,868.55	165.58	170.52	96.64	-8,317.14	939.65	2,263.03	1,932.54	330.49	6.847	
18,700.00	7,618.00	17,807.02	7,869.14	166.75	171.64	96.65	-8,382.18	939.40	2,263.14	1,930.48	332.66	6.803	
18,711.30	7,618.00	17,818.32	7,869.24	166.94	171.83	96.65	-8,393.48	939.34	2,263.16	1,930.11	333.05	6.795	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-23.14	218.21	-93.24	237.51				
100.00	100.00	92.60	92.59	0.13	0.16	-23.22	217.60	-93.37	236.80	236.51	0.29	813.977	
200.00	200.00	196.51	196.48	0.49	0.39	-23.56	215.37	-93.91	235.04	234.16	0.88	267.183	
300.00	300.00	300.77	300.56	0.85	0.77	-24.62	209.84	-96.18	231.07	229.45	1.62	142.408	
400.00	400.00	398.22	397.63	1.21	1.15	-26.49	202.82	-101.10	226.75	224.41	2.34	96.746	
500.00	500.00	493.83	492.80	1.57	1.52	-28.77	196.82	-108.08	224.56	221.49	3.07	73.089	
581.72	581.72	573.29	571.72	1.86	1.84	-31.11	191.86	-115.79	224.09	220.41	3.69	60.812	CC
600.00	600.00	591.14	589.41	1.93	1.91	-31.72	190.63	-117.84	224.12	220.29	3.82	58.605	ES
700.00	700.00	687.36	684.46	2.29	2.32	-35.51	183.40	-130.86	225.37	220.77	4.60	49.043	
800.00	800.00	782.42	777.87	2.64	2.75	-39.88	175.65	-146.75	229.20	223.82	5.39	42.559	
900.00	900.00	875.46	868.58	3.00	3.20	-44.72	167.22	-165.58	236.30	230.12	6.18	38.219	
1,000.00	999.98	975.28	965.54	3.36	3.71	-107.28	157.75	-187.36	246.66	239.64	7.02	35.157	
1,100.00	1,099.84	1,073.69	1,061.37	3.71	4.21	-112.70	147.80	-207.37	258.88	251.06	7.82	33.104	
1,200.00	1,199.45	1,169.61	1,154.70	4.07	4.71	-118.17	137.25	-226.83	274.58	265.99	8.59	31.962	
1,300.00	1,298.70	1,267.84	1,250.48	4.44	5.22	-123.60	126.34	-245.69	293.70	284.35	9.35	31.401	SF
1,400.00	1,397.47	1,362.66	1,343.25	4.82	5.70	-128.43	116.34	-262.58	316.32	306.24	10.07	31.404	
1,500.00	1,495.62	1,451.05	1,429.63	5.22	6.15	-132.68	106.85	-278.70	343.84	333.10	10.74	32.019	
1,600.00	1,593.06	1,535.61	1,512.05	5.65	6.59	-136.45	97.83	-295.33	377.22	365.85	11.37	33.167	
1,700.00	1,689.64	1,621.21	1,595.30	6.11	7.05	-139.94	88.56	-313.00	415.91	403.90	12.01	34.619	
1,800.00	1,785.27	1,708.40	1,680.00	6.61	7.52	-143.18	78.71	-331.15	459.00	446.33	12.67	36.226	
1,900.00	1,879.82	1,795.44	1,764.68	7.15	7.98	-146.01	69.24	-348.96	505.82	492.49	13.33	37.947	
2,000.00	1,973.17	1,885.13	1,852.17	7.73	8.45	-148.50	60.46	-366.62	555.69	541.68	14.01	39.658	
2,100.00	2,065.21	1,971.69	1,936.86	8.37	8.89	-150.50	53.20	-382.91	608.23	593.55	14.68	41.446	
2,200.00	2,155.84	2,049.16	2,012.79	9.07	9.27	-151.87	48.42	-397.54	663.83	648.55	15.28	43.433	
2,300.00	2,244.94	2,120.09	2,082.19	9.82	9.63	-152.90	44.29	-411.58	723.22	707.36	15.85	45.615	
2,400.00	2,332.39	2,187.25	2,147.75	10.64	9.97	-153.68	40.88	-425.76	786.41	770.00	16.41	47.927	
2,500.00	2,418.11	2,255.68	2,214.43	11.53	10.32	-154.38	37.42	-440.73	852.94	835.95	16.98	50.227	
2,558.91	2,467.74	2,295.68	2,253.37	12.08	10.53	-154.75	35.26	-449.60	893.53	876.21	17.32	51.580	
2,600.00	2,502.13	2,323.87	2,280.82	12.47	10.68	-155.32	33.78	-455.89	922.21	904.65	17.56	52.508	
2,700.00	2,585.83	2,395.59	2,350.63	13.45	11.05	-156.63	30.21	-471.94	992.22	974.05	18.17	54.609	
2,800.00	2,669.53	2,473.44	2,426.50	14.44	11.46	-157.84	26.66	-489.00	1,062.05	1,043.22	18.83	56.407	
2,900.00	2,753.22	2,530.95	2,482.51	15.46	11.76	-158.68	23.42	-501.64	1,132.31	1,112.97	19.34	58.562	
3,000.00	2,836.92	2,601.66	2,551.30	16.48	12.14	-159.65	18.53	-517.26	1,203.11	1,183.16	19.95	60.315	
3,100.00	2,920.62	2,677.88	2,625.55	17.52	12.54	-160.59	13.15	-533.62	1,273.68	1,253.07	20.61	61.812	
3,200.00	3,004.32	2,752.77	2,698.56	18.56	12.93	-161.44	7.64	-549.34	1,344.13	1,322.87	21.26	63.237	
3,300.00	3,088.01	2,838.69	2,782.48	19.61	13.38	-162.30	1.55	-566.73	1,414.13	1,392.14	21.99	64.300	
3,400.00	3,171.71	2,917.82	2,859.91	20.67	13.78	-163.01	-3.78	-582.17	1,483.65	1,460.97	22.68	65.422	
3,500.00	3,255.41	2,975.01	2,915.86	21.73	14.07	-163.48	-7.59	-593.37	1,553.31	1,530.11	23.20	66.958	
3,600.00	3,339.10	3,021.00	2,960.76	22.80	14.31	-163.82	-10.66	-602.86	1,623.81	1,600.18	23.63	68.718	
3,700.00	3,422.80	3,072.47	3,010.85	23.87	14.59	-164.18	-14.27	-614.11	1,695.25	1,671.15	24.11	70.323	
3,800.00	3,506.50	3,117.85	3,054.85	24.94	14.84	-164.48	-17.76	-624.65	1,767.75	1,743.22	24.53	72.060	
3,900.00	3,590.20	3,190.13	3,124.86	26.02	15.24	-164.94	-23.63	-641.65	1,840.64	1,815.46	25.18	73.088	
4,000.00	3,673.89	3,295.76	3,227.42	27.10	15.82	-165.57	-32.47	-665.33	1,912.96	1,886.85	26.11	73.265	
4,100.00	3,757.59	3,400.38	3,329.49	28.18	16.37	-166.15	-40.98	-686.63	1,983.87	1,956.85	27.02	73.429	
4,200.00	3,841.29	3,446.84	3,374.84	29.26	16.61	-166.39	-44.68	-696.02	2,054.65	2,027.19	27.46	74.818	
4,300.00	3,924.99	3,490.00	3,416.87	30.35	16.84	-166.60	-48.17	-705.18	2,126.22	2,098.34	27.88	76.271	
4,400.00	4,008.68	3,537.54	3,463.05	31.44	17.11	-166.81	-51.96	-715.84	2,198.58	2,170.25	28.33	77.605	
4,500.00	4,092.38	3,584.00	3,508.02	32.52	17.36	-166.98	-55.50	-726.94	2,271.75	2,242.98	28.77	78.951	
4,600.00	4,176.08	3,703.81	3,624.14	33.62	18.03	-167.38	-63.68	-755.25	2,344.68	2,314.84	29.84	78.572	
4,700.00	4,259.77	3,801.02	3,718.94	34.71	18.55	-167.73	-70.79	-775.60	2,415.79	2,385.08	30.71	78.675	
4,800.00	4,343.47	3,849.19	3,765.88	35.80	18.80	-167.89	-74.43	-785.79	2,487.25	2,456.08	31.17	79.796	
4,900.00	4,427.17	3,924.42	3,839.10	36.89	19.20	-168.14	-80.25	-802.02	2,559.08	2,527.22	31.86	80.329	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,510.87	4,001.54	3,914.26	37.99	19.61	-168.39	-86.67	-818.05	2,630.56	2,598.00	32.56	80.793	
5,100.00	4,594.56	4,066.79	3,977.86	39.08	19.96	-168.59	-92.00	-831.62	2,702.03	2,668.87	33.17	81.471	
5,200.00	4,678.26	4,117.39	4,027.13	40.18	20.23	-168.74	-96.43	-842.27	2,773.86	2,740.21	33.65	82.429	
5,300.00	4,761.96	4,168.19	4,076.51	41.28	20.51	-168.90	-101.31	-853.13	2,846.16	2,812.03	34.14	83.372	
5,400.00	4,845.66	5,400.00	4,184.49	42.37	27.06	-169.23	-111.95	-877.00	2,918.77	2,879.26	39.51	73.874	
5,500.00	4,929.35	4,427.03	4,328.97	43.47	21.87	-169.61	-123.80	-905.41	2,989.08	2,952.69	36.40	82.127	
5,600.00	5,013.05	5,102.55	4,999.67	44.57	24.43	-171.01	-148.52	-969.60	3,053.05	3,012.04	41.01	74.438	
5,700.00	5,096.75	5,190.84	5,087.96	45.67	24.65	-171.18	-148.69	-969.53	3,107.32	3,065.58	41.74	74.444	
5,800.00	5,180.45	5,269.32	5,166.44	46.77	24.84	-171.33	-149.16	-969.35	3,161.63	3,119.22	42.41	74.546	
5,900.00	5,264.14	5,362.86	5,259.97	47.87	25.07	-171.52	-150.09	-968.87	3,215.91	3,172.74	43.16	74.510	
6,000.00	5,347.84	5,451.98	5,349.08	48.97	25.28	-171.70	-151.22	-968.07	3,270.00	3,226.11	43.89	74.512	
6,100.00	5,431.54	5,519.09	5,416.19	50.07	25.45	-171.83	-152.11	-967.55	3,324.23	3,279.73	44.50	74.701	
6,200.00	5,515.23	5,592.78	5,489.87	51.17	25.64	-171.96	-152.94	-967.45	3,378.88	3,333.72	45.15	74.829	
6,300.00	5,598.93	5,679.10	5,576.18	52.27	25.88	-172.09	-153.33	-967.70	3,433.62	3,387.73	45.88	74.834	
6,400.00	5,682.63	5,770.89	5,667.98	53.38	26.13	-172.22	-153.00	-968.09	3,488.17	3,441.53	46.64	74.786	
6,500.00	5,766.33	5,855.25	5,752.33	54.48	26.35	-172.33	-152.51	-968.43	3,542.63	3,495.27	47.36	74.805	
6,600.00	5,850.02	5,932.90	5,829.98	55.58	26.56	-172.43	-152.03	-968.83	3,597.17	3,549.13	48.04	74.881	
6,700.00	5,933.72	6,004.39	5,901.47	56.68	26.76	-172.51	-151.64	-969.38	3,651.93	3,603.25	48.69	75.007	
6,800.00	6,017.42	6,077.49	5,974.56	57.79	26.97	-172.60	-151.30	-970.17	3,706.96	3,657.62	49.35	75.118	
6,900.00	6,101.12	6,156.12	6,053.19	58.89	27.20	-172.68	-150.87	-971.25	3,762.19	3,712.15	50.04	75.179	
7,000.00	6,184.81	6,230.77	6,127.82	59.99	27.42	-172.76	-150.69	-972.21	3,817.49	3,766.77	50.72	75.272	
7,100.00	6,268.51	6,292.21	6,189.26	61.10	27.60	-172.83	-150.63	-973.28	3,873.17	3,821.87	51.31	75.487	
7,200.00	6,352.21	6,382.16	6,279.19	62.20	27.87	-172.92	-150.51	-975.09	3,929.05	3,876.98	52.08	75.446	
7,300.00	6,435.90	6,464.02	6,361.03	63.31	28.12	-173.00	-150.26	-976.69	3,984.83	3,932.03	52.80	75.474	
7,400.00	6,519.60	6,552.21	6,449.20	64.41	28.39	-173.08	-149.94	-978.42	4,040.60	3,987.04	53.56	75.445	
7,500.00	6,603.30	6,656.33	6,553.32	65.51	28.70	-173.19	-149.90	-979.93	4,096.12	4,041.70	54.41	75.277	
7,600.00	6,687.00	6,788.09	6,685.07	66.62	29.07	-173.34	-151.03	-979.85	4,150.84	4,095.42	55.42	74.898	
7,700.00	6,770.69	6,871.43	6,768.40	67.72	29.30	-173.44	-151.66	-979.32	4,205.12	4,148.99	56.13	74.916	
7,800.00	6,854.39	6,937.94	6,834.91	68.83	29.48	-173.52	-152.05	-979.14	4,259.62	4,202.87	56.75	75.061	
7,900.00	6,938.09	7,006.08	6,903.05	69.93	29.68	-173.59	-152.52	-979.21	4,314.44	4,257.06	57.38	75.190	
7,933.18	6,965.86	7,028.85	6,925.81	70.30	29.74	-173.61	-152.67	-979.29	4,332.70	4,275.10	57.59	75.231	
7,950.00	6,980.00	7,040.43	6,937.40	70.49	29.78	-176.95	-152.75	-979.34	4,341.88	4,284.19	57.70	75.252	
8,000.00	7,022.68	7,075.13	6,972.09	71.01	29.88	172.66	-153.01	-979.54	4,368.25	4,310.24	58.01	75.300	
8,050.00	7,066.06	7,110.28	7,007.25	71.51	29.99	161.73	-153.32	-979.78	4,393.06	4,334.74	58.32	75.331	
8,100.00	7,109.82	7,145.77	7,042.73	71.97	30.09	150.58	-153.68	-980.07	4,416.13	4,357.52	58.61	75.344	
8,150.00	7,153.63	7,181.69	7,078.64	72.38	30.20	139.66	-154.07	-980.43	4,437.31	4,378.41	58.90	75.336	
8,200.00	7,197.14	7,217.32	7,114.28	72.74	30.31	129.47	-154.45	-980.86	4,456.47	4,397.30	59.17	75.313	
8,250.00	7,240.04	7,262.28	7,159.23	73.05	30.45	120.42	-154.93	-981.45	4,473.48	4,413.99	59.49	75.194	
8,300.00	7,281.99	7,316.33	7,213.27	73.31	30.62	112.70	-155.61	-981.98	4,488.11	4,428.26	59.86	74.980	
8,350.00	7,322.67	7,353.33	7,250.27	73.52	30.73	106.15	-156.16	-982.25	4,500.34	4,440.24	60.10	74.876	
8,400.00	7,361.77	7,384.25	7,281.17	73.68	30.83	100.73	-156.71	-982.49	4,510.26	4,449.96	60.30	74.793	
8,450.00	7,399.01	7,413.83	7,310.75	73.78	30.92	96.34	-157.32	-982.74	4,517.85	4,457.36	60.49	74.691	
8,500.00	7,434.08	7,461.98	7,358.89	73.85	31.06	93.03	-158.41	-983.10	4,523.03	4,462.25	60.78	74.410	
8,550.00	7,466.74	7,646.43	7,543.29	73.87	31.59	91.85	-161.52	-981.28	4,525.28	4,463.37	61.91	73.099	
8,600.00	7,496.72	7,685.89	7,582.73	73.85	31.69	90.04	-161.70	-980.32	4,524.61	4,462.47	62.14	72.811	
8,650.00	7,523.80	7,732.16	7,629.00	73.79	31.81	88.93	-161.70	-979.16	4,521.69	4,459.27	62.42	72.437	
8,700.00	7,547.77	7,781.64	7,678.45	73.70	31.94	88.41	-161.47	-977.74	4,516.53	4,453.80	62.73	72.001	
8,750.00	7,568.45	7,888.06	7,784.79	73.58	32.21	89.08	-160.00	-973.72	4,509.16	4,445.79	63.37	71.161	
8,800.00	7,585.69	8,800.00	7,763.57	73.43	34.52	88.69	-160.31	-974.53	4,499.68	4,433.53	66.15	68.018	
8,850.00	7,599.35	7,945.41	7,842.05	73.26	32.35	89.95	-158.65	-970.96	4,488.45	4,424.64	63.80	70.349	
8,900.00	7,609.33	7,962.11	7,858.73	73.07	32.39	90.83	-158.19	-970.11	4,475.59	4,411.61	63.98	69.955	
8,950.00	7,615.55	7,971.34	7,867.93	72.87	32.41	91.98	-157.93	-969.64	4,461.23	4,397.10	64.13	69.565	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	7,973.20	7,869.80	72.65	32.42	93.37	-157.88	-969.54	4,445.50	4,381.24	64.26	69.180	
9,006.60	7,618.00	7,972.91	7,869.50	72.62	32.42	93.58	-157.88	-969.55	4,443.32	4,379.05	64.28	69.129	
9,100.00	7,618.00	7,967.95	7,864.55	72.22	32.41	93.51	-158.03	-969.81	4,413.29	4,348.78	64.51	68.412	
9,200.00	7,618.00	7,962.83	7,859.44	71.80	32.39	93.44	-158.17	-970.08	4,383.11	4,318.30	64.80	67.636	
9,300.00	7,618.00	7,957.89	7,854.51	71.41	32.38	93.37	-158.31	-970.33	4,355.01	4,289.87	65.14	66.853	
9,400.00	7,618.00	7,953.13	7,849.75	71.04	32.37	93.31	-158.44	-970.57	4,329.04	4,263.51	65.53	66.067	
9,500.00	7,618.00	7,948.52	7,845.16	70.68	32.36	93.24	-158.57	-970.80	4,305.23	4,239.28	65.95	65.280	
9,600.00	7,618.00	7,944.08	7,840.72	70.35	32.35	93.18	-158.69	-971.03	4,283.62	4,217.20	66.42	64.495	
9,700.00	7,618.00	7,939.78	7,836.43	70.04	32.34	93.12	-158.80	-971.24	4,264.24	4,197.32	66.93	63.715	
9,800.00	7,618.00	7,935.62	7,832.28	69.75	32.33	93.07	-158.91	-971.45	4,247.13	4,179.66	67.47	62.945	
9,900.00	7,618.00	7,931.60	7,828.26	69.47	32.32	93.01	-159.01	-971.65	4,232.31	4,164.26	68.06	62.187	
10,000.00	7,618.00	7,927.70	7,824.37	69.22	32.31	92.96	-159.10	-971.84	4,219.81	4,151.13	68.68	61.444	
10,100.00	7,618.00	7,923.92	7,820.60	68.99	32.30	92.91	-159.20	-972.02	4,209.64	4,140.32	69.33	60.721	
10,200.00	7,618.00	7,920.26	7,816.94	68.78	32.29	92.86	-159.29	-972.20	4,201.83	4,131.82	70.01	60.020	
10,300.00	7,618.00	7,916.71	7,813.40	68.59	32.28	92.81	-159.37	-972.37	4,196.38	4,125.67	70.71	59.344	
10,400.00	7,618.00	7,913.27	7,809.96	68.42	32.27	92.76	-159.45	-972.53	4,193.31	4,121.87	71.44	58.696	
10,478.87	7,618.00	7,910.62	7,807.32	68.30	32.26	92.72	-159.51	-972.66	4,192.57	4,120.54	72.04	58.201	
10,500.00	7,618.00	7,909.93	7,806.62	68.28	32.26	92.72	-159.53	-972.69	4,192.63	4,120.44	72.19	58.078	
10,600.00	7,618.00	10,600.00	7,769.65	68.16	39.13	92.21	-160.22	-974.29	4,194.31	4,113.53	80.78	51.923	
10,700.00	7,618.00	10,700.00	7,768.15	68.06	39.39	92.19	-160.24	-974.35	4,198.37	4,116.53	81.84	51.298	
10,800.00	7,618.00	7,908.90	7,805.59	67.99	32.26	92.70	-159.55	-972.73	4,204.84	4,130.26	74.57	56.385	
10,900.00	7,618.00	7,903.28	7,799.98	67.95	32.25	92.62	-159.67	-973.00	4,213.65	4,138.30	75.35	55.919	
11,000.00	7,618.00	7,898.00	7,794.71	67.95	32.23	92.55	-159.79	-973.25	4,224.81	4,148.68	76.14	55.490	
11,100.00	7,618.00	7,893.03	7,789.74	67.97	32.22	92.48	-159.90	-973.49	4,238.30	4,161.38	76.92	55.097	
11,200.00	7,618.00	7,888.34	7,785.06	68.04	32.21	92.42	-160.00	-973.70	4,254.10	4,176.39	77.71	54.743	
11,300.00	7,618.00	7,883.91	7,780.64	68.15	32.20	92.36	-160.09	-973.90	4,272.17	4,193.68	78.49	54.427	
11,400.00	7,618.00	7,879.71	7,776.45	68.30	32.19	92.30	-160.17	-974.09	4,292.50	4,213.23	79.27	54.150	
11,500.00	7,618.00	7,875.74	7,772.48	68.50	32.18	92.25	-160.25	-974.27	4,315.05	4,235.01	80.04	53.911	
11,600.00	7,618.00	7,871.97	7,768.71	68.75	32.17	92.20	-160.32	-974.43	4,339.78	4,258.98	80.80	53.710	
11,700.00	7,618.00	7,868.38	7,765.13	69.06	32.16	92.15	-160.38	-974.59	4,366.67	4,285.12	81.55	53.548	
11,800.00	7,618.00	7,864.97	7,761.72	69.44	32.15	92.10	-160.44	-974.73	4,395.66	4,313.38	82.28	53.423	
11,900.00	7,618.00	7,861.72	7,758.47	69.88	32.14	92.06	-160.50	-974.87	4,426.72	4,343.72	83.00	53.336	
12,000.00	7,618.00	7,858.62	7,755.38	70.39	32.13	92.01	-160.55	-975.00	4,459.81	4,376.11	83.70	53.284	
12,100.00	7,618.00	7,855.66	7,752.42	70.97	32.13	91.97	-160.60	-975.12	4,494.87	4,410.49	84.38	53.269	
12,200.00	7,618.00	7,852.83	7,749.59	71.63	32.12	91.94	-160.65	-975.23	4,531.87	4,446.83	85.05	53.288	
12,300.00	7,618.00	7,850.12	7,746.89	72.35	32.11	91.90	-160.69	-975.34	4,570.76	4,485.07	85.69	53.341	
12,400.00	7,618.00	7,847.53	7,744.30	73.15	32.11	91.86	-160.73	-975.45	4,611.49	4,525.18	86.31	53.427	
12,500.00	7,618.00	7,845.05	7,741.81	74.01	32.10	91.83	-160.77	-975.55	4,654.01	4,567.09	86.92	53.544	
12,600.00	7,618.00	7,842.66	7,739.43	74.93	32.09	91.80	-160.80	-975.64	4,698.28	4,610.78	87.50	53.693	
12,700.00	7,618.00	7,840.37	7,737.15	75.91	32.09	91.77	-160.84	-975.73	4,744.24	4,656.17	88.06	53.872	
12,800.00	7,618.00	7,838.17	7,734.95	76.95	32.08	91.73	-160.87	-975.81	4,791.84	4,703.23	88.61	54.081	
12,900.00	7,618.00	7,836.06	7,732.83	78.04	32.08	91.71	-160.90	-975.89	4,841.04	4,751.91	89.13	54.317	
13,000.00	7,618.00	7,834.02	7,730.80	79.16	32.07	91.68	-160.93	-975.97	4,891.79	4,802.17	89.63	54.580	
13,100.00	7,618.00	7,832.06	7,728.84	80.33	32.07	91.65	-160.95	-976.04	4,944.04	4,853.94	90.11	54.869	
13,200.00	7,618.00	7,830.17	7,726.95	81.54	32.06	91.63	-160.98	-976.11	4,997.75	4,907.18	90.56	55.184	
13,300.00	7,618.00	7,828.34	7,725.13	82.78	32.06	91.60	-161.00	-976.18	5,052.86	4,961.86	91.00	55.523	
13,400.00	7,618.00	7,826.58	7,723.37	84.05	32.05	91.58	-161.02	-976.24	5,109.34	5,017.91	91.43	55.885	
13,500.00	7,618.00	7,824.88	7,721.67	85.35	32.05	91.55	-161.05	-976.31	5,167.13	5,075.31	91.83	56.270	
13,600.00	7,618.00	7,823.24	7,720.03	86.67	32.04	91.53	-161.07	-976.37	5,226.20	5,133.99	92.21	56.677	
13,700.00	7,618.00	7,821.66	7,718.44	88.02	32.04	91.51	-161.08	-976.42	5,286.50	5,193.92	92.58	57.104	
13,800.00	7,618.00	7,820.12	7,716.91	89.38	32.04	91.49	-161.10	-976.48	5,347.99	5,255.06	92.93	57.551	
13,900.00	7,618.00	7,818.63	7,715.42	90.77	32.03	91.47	-161.12	-976.53	5,410.63	5,317.37	93.26	58.018	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,618.00	7,817.19	7,713.98	92.17	32.03	91.45	-161.14	-976.58	5,474.38	5,380.80	93.58	58.503	
14,100.00	7,618.00	7,815.80	7,712.59	93.59	32.03	91.43	-161.15	-976.63	5,539.20	5,445.32	93.88	59.005	
14,200.00	7,618.00	7,814.45	7,711.24	95.02	32.02	91.41	-161.17	-976.68	5,605.05	5,510.89	94.16	59.525	
14,300.00	7,618.00	7,813.14	7,709.93	96.47	32.02	91.39	-161.18	-976.72	5,671.90	5,577.47	94.44	60.061	
14,400.00	7,618.00	7,811.86	7,708.66	97.93	32.02	91.38	-161.20	-976.76	5,739.72	5,645.02	94.70	60.613	
14,500.00	7,618.00	7,810.63	7,707.42	99.41	32.01	91.36	-161.21	-976.81	5,808.46	5,713.52	94.94	61.179	
14,600.00	7,618.00	7,809.43	7,706.22	100.89	32.01	91.34	-161.22	-976.85	5,878.11	5,782.93	95.18	61.761	
14,700.00	7,618.00	7,808.26	7,705.06	102.38	32.01	91.33	-161.23	-976.89	5,948.62	5,853.22	95.40	62.356	
14,800.00	7,618.00	7,807.13	7,703.93	103.89	32.00	91.31	-161.25	-976.92	6,019.96	5,924.35	95.61	62.964	
14,900.00	7,618.00	7,806.03	7,702.83	105.40	32.00	91.30	-161.26	-976.96	6,092.11	5,996.30	95.81	63.585	
15,000.00	7,618.00	7,804.96	7,701.76	106.92	32.00	91.28	-161.27	-977.00	6,165.03	6,069.03	96.00	64.219	
15,100.00	7,618.00	7,803.92	7,700.72	108.45	32.00	91.27	-161.28	-977.03	6,238.71	6,142.53	96.18	64.864	
15,200.00	7,618.00	7,802.90	7,699.70	109.99	31.99	91.25	-161.29	-977.06	6,313.11	6,216.76	96.35	65.521	
15,300.00	7,618.00	7,801.92	7,698.72	111.54	31.99	91.24	-161.30	-977.10	6,388.21	6,291.70	96.52	66.189	
15,400.00	7,618.00	7,800.95	7,697.75	113.09	31.99	91.23	-161.31	-977.13	6,463.99	6,367.32	96.67	66.867	
15,500.00	7,618.00	7,800.01	7,696.82	114.65	31.99	91.21	-161.32	-977.16	6,540.41	6,443.60	96.82	67.555	
15,600.00	7,618.00	7,799.10	7,695.90	116.21	31.98	91.20	-161.32	-977.19	6,617.47	6,520.51	96.96	68.252	
15,700.00	7,618.00	7,798.21	7,695.01	117.78	31.98	91.19	-161.33	-977.22	6,695.13	6,598.04	97.09	68.959	
15,800.00	7,618.00	7,797.34	7,694.14	119.36	31.98	91.18	-161.34	-977.25	6,773.37	6,676.16	97.21	69.675	
15,900.00	7,618.00	7,797.00	7,693.80	120.94	31.98	91.17	-161.34	-977.26	6,852.18	6,754.85	97.33	70.399	
16,000.00	7,618.00	7,795.83	7,692.63	122.53	31.97	91.16	-161.35	-977.29	6,931.54	6,834.10	97.45	71.132	
16,100.00	7,618.00	7,795.11	7,691.91	124.12	31.97	91.15	-161.36	-977.32	7,011.43	6,913.87	97.55	71.872	
16,200.00	7,618.00	7,794.41	7,691.21	125.72	31.97	91.14	-161.37	-977.34	7,091.83	6,994.17	97.66	72.620	
16,300.00	7,618.00	7,793.71	7,690.52	127.32	31.97	91.13	-161.37	-977.36	7,172.71	7,074.96	97.75	73.375	
16,400.00	7,618.00	7,793.03	7,689.83	128.93	31.97	91.12	-161.38	-977.38	7,254.08	7,156.23	97.85	74.138	
16,500.00	7,618.00	7,792.36	7,689.16	130.54	31.97	91.11	-161.38	-977.40	7,335.91	7,237.97	97.93	74.906	
16,600.00	7,618.00	7,791.70	7,688.50	132.15	31.96	91.10	-161.39	-977.42	7,418.18	7,320.16	98.02	75.682	
16,700.00	7,618.00	7,791.05	7,687.85	133.77	31.96	91.09	-161.39	-977.44	7,500.88	7,402.78	98.10	76.463	
16,800.00	7,618.00	7,790.41	7,687.21	135.39	31.96	91.08	-161.40	-977.46	7,584.00	7,485.83	98.17	77.251	
16,900.00	7,618.00	7,789.78	7,686.58	137.01	31.96	91.07	-161.40	-977.48	7,667.52	7,569.28	98.25	78.044	
17,000.00	7,618.00	7,789.15	7,685.96	138.64	31.96	91.07	-161.41	-977.50	7,751.44	7,653.12	98.32	78.843	
17,100.00	7,618.00	7,788.54	7,685.35	140.27	31.96	91.06	-161.41	-977.52	7,835.73	7,737.35	98.38	79.647	
17,200.00	7,618.00	7,787.94	7,684.75	141.91	31.95	91.05	-161.42	-977.54	7,920.38	7,821.94	98.44	80.456	
17,300.00	7,618.00	7,787.35	7,684.15	143.55	31.95	91.04	-161.42	-977.56	8,005.39	7,906.89	98.50	81.269	
17,400.00	7,618.00	7,786.76	7,683.57	145.19	31.95	91.03	-161.43	-977.58	8,090.74	7,992.18	98.56	82.088	
17,500.00	7,618.00	7,786.19	7,682.99	146.83	31.95	91.02	-161.43	-977.60	8,176.43	8,077.81	98.62	82.911	
17,600.00	7,618.00	7,785.62	7,682.43	148.48	31.95	91.02	-161.44	-977.61	8,262.43	8,163.76	98.67	83.738	
17,700.00	7,618.00	7,785.06	7,681.87	150.13	31.95	91.01	-161.44	-977.63	8,348.75	8,250.03	98.72	84.570	
17,800.00	7,618.00	7,784.51	7,681.32	151.78	31.95	91.00	-161.45	-977.65	8,435.37	8,336.60	98.77	85.405	
17,900.00	7,618.00	7,783.96	7,680.77	153.43	31.94	90.99	-161.45	-977.67	8,522.28	8,423.47	98.82	86.244	
18,000.00	7,618.00	7,783.43	7,680.24	155.09	31.94	90.99	-161.45	-977.68	8,609.48	8,510.62	98.86	87.087	
18,100.00	7,618.00	7,782.90	7,679.71	156.75	31.94	90.98	-161.46	-977.70	8,696.95	8,598.05	98.90	87.933	
18,200.00	7,618.00	7,782.38	7,679.19	158.41	31.94	90.97	-161.46	-977.71	8,784.69	8,685.75	98.95	88.783	
18,300.00	7,618.00	7,781.87	7,678.68	160.07	31.94	90.97	-161.46	-977.73	8,872.69	8,773.71	98.99	89.636	
18,400.00	7,618.00	7,781.36	7,678.17	161.74	31.94	90.96	-161.47	-977.75	8,960.94	8,861.92	99.03	90.492	
18,500.00	7,618.00	7,780.86	7,677.67	163.41	31.94	90.95	-161.47	-977.76	9,049.44	8,950.37	99.06	91.351	
18,600.00	7,618.00	7,780.37	7,677.18	165.08	31.93	90.95	-161.48	-977.78	9,138.17	9,039.07	99.10	92.212	
18,700.00	7,618.00	7,779.88	7,676.69	166.75	31.93	90.94	-161.48	-977.79	9,227.13	9,128.00	99.13	93.077	
18,711.30	7,618.00	7,779.83	7,676.64	166.94	31.93	90.94	-161.48	-977.79	9,237.20	9,138.06	99.14	93.174	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-29.62	218.21	-124.04	251.20				
100.00	100.00	88.42	88.42	0.13	0.15	-29.51	218.68	-123.77	251.28	251.00	0.28	900.047	ES
200.00	200.00	181.94	181.92	0.49	0.38	-29.22	220.46	-123.30	252.72	251.84	0.88	286.733	
300.00	300.00	271.56	271.40	0.85	0.72	-29.15	224.77	-125.38	258.04	256.47	1.57	164.015	
400.00	400.00	362.11	361.56	1.21	1.05	-29.58	230.88	-131.03	266.99	264.73	2.26	118.167	
500.00	500.00	452.24	450.95	1.57	1.41	-30.17	239.10	-139.01	279.32	276.37	2.95	94.713	
600.00	600.00	541.70	539.27	1.93	1.79	-30.76	249.65	-148.59	294.92	291.29	3.63	81.207	
700.00	700.00	629.47	625.43	2.29	2.19	-31.26	262.45	-159.32	313.74	309.43	4.31	72.845	
800.00	800.00	715.65	709.38	2.64	2.61	-31.75	277.47	-171.72	336.12	331.14	4.97	67.583	
900.00	900.00	801.12	791.96	3.00	3.07	-32.36	293.97	-186.30	361.58	355.94	5.63	64.167	
1,000.00	999.98	883.61	870.83	3.36	3.54	-89.78	312.03	-202.34	390.52	384.24	6.28	62.221	
1,100.00	1,099.84	973.14	955.76	3.71	4.09	-90.44	333.06	-221.26	421.89	414.94	6.95	60.709	
1,200.00	1,199.45	1,068.08	1,045.85	4.07	4.69	-91.48	355.19	-241.52	453.53	445.86	7.67	59.104	
1,300.00	1,298.70	1,155.93	1,128.94	4.44	5.25	-92.54	376.40	-260.57	486.54	478.17	8.36	58.193	
1,400.00	1,397.47	1,245.78	1,213.71	4.82	5.84	-93.70	399.01	-279.91	520.87	511.79	9.08	57.377	
1,500.00	1,495.62	1,332.07	1,294.98	5.22	6.42	-94.88	421.08	-298.77	556.52	546.73	9.79	56.827	
1,600.00	1,593.06	1,409.11	1,367.05	5.65	6.95	-95.89	441.86	-316.37	594.76	584.29	10.47	56.814	
1,700.00	1,689.64	1,483.92	1,436.39	6.11	7.50	-96.79	463.72	-333.98	636.08	624.92	11.16	56.986	
1,800.00	1,785.27	1,553.05	1,499.82	6.61	8.03	-97.51	485.21	-351.07	680.61	668.76	11.85	57.447	
1,900.00	1,879.82	1,628.78	1,568.62	7.15	8.63	-98.48	509.06	-371.88	728.49	715.85	12.63	57.658	
2,000.00	1,973.17	1,715.97	1,647.99	7.73	9.33	-99.78	535.99	-395.90	777.52	763.94	13.58	57.270	
2,100.00	2,065.21	1,794.53	1,719.55	8.37	9.96	-100.85	559.74	-417.97	828.12	813.63	14.49	57.146	
2,200.00	2,155.84	1,871.39	1,789.55	9.07	10.59	-101.89	582.38	-440.22	880.64	865.20	15.44	57.027	
2,300.00	2,244.94	1,945.11	1,856.63	9.82	11.19	-102.81	603.90	-461.95	935.20	918.78	16.42	56.970	
2,400.00	2,332.39	2,028.41	1,932.41	10.64	11.87	-103.94	628.41	-486.33	991.56	974.03	17.53	56.548	
2,500.00	2,418.11	2,127.46	2,023.11	11.53	12.66	-105.44	657.19	-513.82	1,048.61	1,029.75	18.86	55.605	
2,558.91	2,467.74	2,182.43	2,073.83	12.08	13.08	-106.18	672.83	-528.11	1,082.20	1,062.58	19.63	55.138	
2,600.00	2,502.13	2,216.92	2,105.72	12.47	13.35	-107.12	682.64	-536.85	1,105.80	1,085.66	20.13	54.927	
2,700.00	2,585.83	2,297.90	2,180.70	13.45	13.96	-109.16	705.77	-556.91	1,163.54	1,142.20	21.34	54.527	
2,800.00	2,669.53	2,374.18	2,251.37	14.44	14.53	-110.91	727.66	-575.46	1,221.91	1,199.41	22.50	54.302	
2,900.00	2,753.22	2,447.76	2,319.62	15.46	15.09	-112.49	748.29	-593.64	1,281.14	1,257.51	23.64	54.201	
3,000.00	2,836.92	2,529.00	2,395.09	16.48	15.69	-114.11	770.75	-613.63	1,340.88	1,316.04	24.84	53.974	
3,100.00	2,920.62	2,604.01	2,464.80	17.52	16.25	-115.48	791.64	-631.85	1,401.04	1,375.06	25.99	53.916	
3,200.00	3,004.32	2,678.27	2,533.76	18.56	16.81	-116.72	812.53	-649.80	1,461.73	1,434.62	27.12	53.904	
3,300.00	3,088.01	2,752.10	2,602.36	19.61	17.36	-117.89	833.05	-667.79	1,522.94	1,494.70	28.24	53.931	
3,400.00	3,171.71	2,827.59	2,672.58	20.67	17.92	-119.01	853.62	-686.35	1,584.60	1,555.23	29.37	53.954	
3,500.00	3,255.41	2,909.14	2,748.59	21.73	18.52	-120.16	875.40	-706.31	1,646.44	1,615.88	30.56	53.880	
3,600.00	3,339.10	2,988.64	2,822.86	22.80	19.09	-121.22	896.16	-725.63	1,708.37	1,676.66	31.71	53.871	
3,700.00	3,422.80	3,058.35	2,888.06	23.87	19.60	-122.10	914.03	-742.64	1,770.62	1,737.86	32.76	54.056	
3,800.00	3,506.50	3,125.86	2,951.12	24.94	20.09	-122.90	931.42	-759.33	1,833.42	1,799.65	33.77	54.285	
3,900.00	3,590.20	3,195.28	3,015.65	26.02	20.60	-123.64	950.40	-776.48	1,896.78	1,861.97	34.82	54.481	
4,000.00	3,673.89	3,278.24	3,092.62	27.10	21.23	-124.44	973.83	-796.70	1,960.25	1,924.24	36.02	54.424	
4,100.00	3,757.59	3,336.83	3,146.95	28.18	21.67	-124.97	990.40	-811.10	2,024.07	1,987.13	36.94	54.793	
4,200.00	3,841.29	3,408.63	3,213.45	29.26	22.21	-125.60	1,010.46	-829.23	2,088.52	2,050.51	38.01	54.949	
4,300.00	3,924.99	3,493.06	3,291.82	30.35	22.85	-126.30	1,033.83	-850.26	2,152.82	2,113.60	39.22	54.893	
4,400.00	4,008.68	3,571.18	3,364.43	31.44	23.43	-126.91	1,055.23	-869.57	2,217.08	2,176.73	40.35	54.946	
4,500.00	4,092.38	3,649.65	3,437.47	32.52	24.01	-127.51	1,076.41	-888.89	2,281.35	2,239.87	41.48	54.999	
4,600.00	4,176.08	3,735.59	3,517.61	33.62	24.64	-128.13	1,099.29	-909.84	2,345.51	2,302.82	42.69	54.944	
4,700.00	4,259.77	3,863.31	3,637.49	34.71	25.55	-129.02	1,132.39	-938.91	2,408.24	2,363.88	44.36	54.294	
4,800.00	4,343.47	3,913.97	3,685.01	35.80	25.91	-129.34	1,145.71	-950.34	2,471.19	2,426.04	45.16	54.724	
4,900.00	4,427.17	3,958.51	3,726.60	36.89	26.23	-129.61	1,157.78	-960.80	2,535.09	2,489.20	45.89	55.246	
5,000.00	4,510.87	3,999.65	3,764.82	37.99	26.54	-129.85	1,169.08	-970.97	2,600.05	2,553.48	46.57	55.832	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	4,042.31	3,804.28	39.08	26.86	-130.08	1,180.92	-982.02	2,666.03	2,618.77	47.26	56.412	
5,200.00	4,678.26	4,087.30	3,845.82	40.18	27.21	-130.33	1,193.25	-994.16	2,732.88	2,684.91	47.97	56.969	
5,300.00	4,761.96	4,135.71	3,890.42	41.28	27.59	-130.60	1,206.28	-1,007.73	2,800.54	2,751.82	48.72	57.483	
5,400.00	4,845.66	4,192.45	3,942.55	42.37	28.04	-130.89	1,221.73	-1,023.95	2,868.73	2,819.16	49.57	57.871	
5,500.00	4,929.35	5,500.00	4,031.61	43.47	38.39	-131.37	1,248.38	-1,051.23	2,936.61	2,878.32	58.30	50.373	SF
5,600.00	5,013.05	4,350.06	4,087.56	44.57	29.29	-131.66	1,264.86	-1,068.11	3,004.38	2,952.54	51.84	57.959	
5,700.00	5,096.75	4,397.00	4,130.71	45.67	29.66	-131.88	1,277.28	-1,081.80	3,073.04	3,020.48	52.55	58.474	
5,800.00	5,180.45	4,439.15	4,169.33	46.77	30.00	-132.08	1,288.49	-1,094.43	3,142.36	3,089.15	53.21	59.056	
5,900.00	5,264.14	4,528.77	4,251.15	47.87	30.73	-132.45	1,313.21	-1,121.38	3,212.04	3,157.56	54.49	58.951	
6,000.00	5,347.84	4,745.70	4,451.29	48.97	32.42	-133.28	1,373.10	-1,179.66	3,278.63	3,221.25	57.38	57.141	
6,100.00	5,431.54	4,801.08	4,502.51	50.07	32.85	-133.47	1,388.89	-1,193.61	3,344.74	3,286.51	58.23	57.442	
6,200.00	5,515.23	4,843.07	4,541.16	51.17	33.18	-133.60	1,401.16	-1,204.54	3,411.55	3,352.64	58.91	57.914	
6,300.00	5,598.93	4,882.99	4,577.73	52.27	33.50	-133.71	1,413.04	-1,215.26	3,479.08	3,419.52	59.56	58.417	
6,400.00	5,682.63	4,920.72	4,612.23	53.38	33.80	-133.83	1,424.10	-1,225.77	3,547.35	3,487.18	60.17	58.955	
6,500.00	5,766.33	5,180.19	4,852.73	54.48	35.77	-134.68	1,493.52	-1,293.82	3,614.55	3,551.02	63.53	56.891	
6,600.00	5,850.02	5,754.84	5,407.59	55.58	38.95	-137.11	1,599.61	-1,392.65	3,672.43	3,603.29	69.14	53.119	
6,700.00	5,933.72	5,980.20	5,631.01	56.68	39.76	-138.29	1,620.33	-1,413.23	3,724.57	3,653.66	70.91	52.525	
6,800.00	6,017.42	6,154.38	5,804.57	57.79	40.27	-139.26	1,629.30	-1,424.76	3,775.29	3,703.09	72.20	52.289	
6,900.00	6,101.12	6,401.92	6,051.92	58.89	40.81	-140.72	1,631.59	-1,432.87	3,823.36	3,749.77	73.59	51.954	
7,000.00	6,184.81	6,498.85	6,148.85	59.99	40.99	-141.28	1,631.53	-1,433.37	3,869.15	3,794.75	74.39	52.009	
7,100.00	6,268.51	6,557.89	6,207.89	61.10	41.10	-141.61	1,631.86	-1,433.96	3,915.61	3,840.54	75.07	52.158	
7,200.00	6,352.21	6,620.75	6,270.74	62.20	41.23	-141.95	1,632.42	-1,434.93	3,962.76	3,887.00	75.76	52.308	
7,300.00	6,435.90	7,300.00	6,434.39	63.31	42.58	-142.82	1,633.78	-1,436.80	4,010.07	3,932.13	77.94	51.448	
7,400.00	6,519.60	6,911.80	6,561.74	64.41	41.81	-143.48	1,634.38	-1,435.42	4,055.29	3,977.62	77.67	52.209	
7,500.00	6,603.30	6,976.74	6,626.68	65.51	41.93	-143.81	1,634.40	-1,434.73	4,100.89	4,022.55	78.34	52.345	
7,600.00	6,687.00	7,039.12	6,689.06	66.62	42.04	-144.13	1,634.17	-1,434.37	4,147.11	4,068.12	78.99	52.500	
7,700.00	6,770.69	7,098.15	6,748.09	67.72	42.15	-144.43	1,633.79	-1,434.36	4,194.00	4,114.38	79.62	52.675	
7,800.00	6,854.39	7,159.69	6,809.62	68.83	42.26	-144.74	1,633.36	-1,434.70	4,241.55	4,161.31	80.25	52.855	
7,900.00	6,938.09	7,221.99	6,871.92	69.93	42.39	-145.04	1,633.06	-1,435.35	4,289.71	4,208.83	80.87	53.041	
7,933.18	6,965.86	7,242.80	6,892.73	70.30	42.43	-145.14	1,632.97	-1,435.63	4,305.81	4,224.73	81.08	53.104	
7,950.00	6,980.00	7,253.38	6,903.31	70.49	42.45	-148.44	1,632.92	-1,435.79	4,314.02	4,232.84	81.18	53.138	
8,000.00	7,022.68	7,285.27	6,935.19	71.01	42.51	-158.96	1,632.76	-1,436.31	4,338.72	4,257.25	81.47	53.256	
8,050.00	7,066.06	7,317.64	6,967.55	71.51	42.58	-170.36	1,632.58	-1,436.92	4,363.70	4,281.98	81.72	53.399	
8,100.00	7,109.82	7,350.22	7,000.13	71.97	42.65	177.74	1,632.38	-1,437.61	4,388.75	4,306.82	81.93	53.567	
8,150.00	7,153.63	7,382.77	7,032.67	72.38	42.72	165.85	1,632.18	-1,438.38	4,413.68	4,331.58	82.10	53.758	
8,200.00	7,197.14	7,448.47	7,098.35	72.74	42.85	154.59	1,631.69	-1,439.88	4,438.18	4,355.81	82.37	53.880	
8,250.00	7,240.04	7,501.11	7,150.98	73.05	42.96	144.31	1,631.15	-1,440.79	4,461.86	4,379.31	82.55	54.049	
8,300.00	7,281.99	7,534.04	7,183.90	73.31	43.03	135.12	1,630.76	-1,441.39	4,484.86	4,402.24	82.62	54.281	
8,350.00	7,322.67	7,565.99	7,215.84	73.52	43.09	127.12	1,630.32	-1,442.03	4,507.08	4,424.42	82.66	54.525	
8,400.00	7,361.77	7,577.00	7,226.85	73.68	43.11	120.08	1,630.16	-1,442.26	4,528.46	4,445.87	82.59	54.830	
8,450.00	7,399.01	7,607.49	7,257.33	73.78	43.18	114.18	1,629.84	-1,443.03	4,548.83	4,466.24	82.58	55.081	
8,500.00	7,434.08	7,624.39	7,274.22	73.85	43.22	109.04	1,629.77	-1,443.55	4,568.19	4,485.68	82.50	55.370	
8,550.00	7,466.74	8,012.90	7,662.39	73.87	43.99	108.30	1,626.21	-1,441.09	4,585.04	4,501.27	83.77	54.735	
8,600.00	7,496.72	8,036.14	7,685.61	73.85	44.03	104.85	1,625.97	-1,440.07	4,599.50	4,515.80	83.70	54.951	
8,650.00	7,523.80	8,057.35	7,706.80	73.79	44.07	101.95	1,625.78	-1,439.16	4,612.83	4,529.20	83.62	55.161	
8,700.00	7,547.77	8,076.26	7,725.70	73.70	44.11	99.50	1,625.63	-1,438.38	4,624.96	4,541.42	83.54	55.364	
8,750.00	7,568.45	8,092.55	7,741.97	73.58	44.14	97.46	1,625.52	-1,437.73	4,635.85	4,552.41	83.44	55.557	
8,800.00	7,585.69	8,106.11	7,755.52	73.43	44.16	95.78	1,625.43	-1,437.20	4,645.47	4,562.13	83.34	55.739	
8,850.00	7,599.35	8,116.85	7,766.25	73.26	44.18	94.43	1,625.38	-1,436.79	4,653.78	4,570.54	83.24	55.907	
8,900.00	7,609.33	8,124.71	7,774.11	73.07	44.19	93.39	1,625.34	-1,436.50	4,660.76	4,577.62	83.14	56.059	
8,950.00	7,615.55	8,129.66	7,779.05	72.87	44.20	92.64	1,625.31	-1,436.31	4,666.37	4,583.33	83.04	56.194	
9,000.00	7,617.97	8,131.67	7,781.06	72.65	44.21	92.17	1,625.30	-1,436.24	4,670.59	4,587.64	82.94	56.310	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,006.60	7,618.00	8,131.72	7,781.11	72.62	44.21	92.13	1,625.30	-1,436.24	4,671.04	4,588.11	82.93	56.324	
9,100.00	7,618.00	8,132.01	7,781.40	72.22	44.21	92.13	1,625.30	-1,436.23	4,678.18	4,595.42	82.77	56.522	
9,200.00	7,618.00	8,132.33	7,781.72	71.80	44.21	92.14	1,625.30	-1,436.21	4,687.89	4,605.27	82.61	56.745	
9,300.00	7,618.00	8,132.64	7,782.03	71.41	44.21	92.14	1,625.30	-1,436.20	4,699.70	4,617.22	82.48	56.981	
9,400.00	7,618.00	8,138.00	7,787.39	71.04	44.22	92.21	1,625.28	-1,436.01	4,713.60	4,631.22	82.38	57.216	
9,500.00	7,618.00	8,138.00	7,787.39	70.68	44.22	92.21	1,625.28	-1,436.01	4,729.58	4,647.29	82.29	57.476	
9,600.00	7,618.00	8,138.00	7,787.39	70.35	44.22	92.21	1,625.28	-1,436.01	4,747.61	4,665.40	82.21	57.748	
9,700.00	7,618.00	8,138.00	7,787.39	70.04	44.22	92.21	1,625.28	-1,436.01	4,767.67	4,685.51	82.16	58.031	
9,800.00	7,618.00	8,138.00	7,787.39	69.75	44.22	92.21	1,625.28	-1,436.01	4,789.73	4,707.61	82.12	58.326	
9,900.00	7,618.00	8,138.00	7,787.39	69.47	44.22	92.21	1,625.28	-1,436.01	4,813.77	4,731.67	82.10	58.632	
10,000.00	7,618.00	8,138.00	7,787.39	69.22	44.22	92.21	1,625.28	-1,436.01	4,839.76	4,757.66	82.10	58.949	
10,100.00	7,618.00	8,138.00	7,787.39	68.99	44.22	92.21	1,625.28	-1,436.01	4,867.66	4,785.54	82.12	59.277	
10,200.00	7,618.00	8,138.00	7,787.39	68.78	44.22	92.21	1,625.28	-1,436.01	4,897.45	4,815.30	82.15	59.616	
10,300.00	7,618.00	8,138.00	7,787.39	68.59	44.22	92.21	1,625.28	-1,436.01	4,929.08	4,846.89	82.20	59.966	
10,400.00	7,618.00	8,138.00	7,787.39	68.42	44.22	92.21	1,625.28	-1,436.01	4,962.53	4,880.27	82.26	60.327	
10,500.00	7,618.00	8,138.00	7,787.39	68.28	44.22	92.21	1,625.28	-1,436.01	4,997.76	4,915.42	82.34	60.699	
10,600.00	7,618.00	8,138.00	7,787.39	68.16	44.22	92.21	1,625.28	-1,436.01	5,034.73	4,952.30	82.43	61.081	
10,700.00	7,618.00	8,138.00	7,787.39	68.06	44.22	92.21	1,625.28	-1,436.01	5,073.40	4,990.87	82.53	61.474	
10,800.00	7,618.00	8,138.00	7,787.39	67.99	44.22	92.21	1,625.28	-1,436.01	5,113.73	5,031.09	82.64	61.878	
10,900.00	7,618.00	8,138.00	7,787.39	67.95	44.22	92.21	1,625.28	-1,436.01	5,155.68	5,072.92	82.77	62.291	
11,000.00	7,618.00	8,138.00	7,787.39	67.95	44.22	92.21	1,625.28	-1,436.01	5,199.23	5,116.32	82.90	62.715	
11,100.00	7,618.00	8,138.00	7,787.39	67.97	44.22	92.21	1,625.28	-1,436.01	5,244.31	5,161.27	83.05	63.149	
11,200.00	7,618.00	8,138.00	7,787.39	68.04	44.22	92.21	1,625.28	-1,436.01	5,290.91	5,207.71	83.20	63.593	
11,300.00	7,618.00	8,138.00	7,787.39	68.15	44.22	92.21	1,625.28	-1,436.01	5,338.97	5,255.61	83.36	64.047	
11,400.00	7,618.00	8,138.00	7,787.39	68.30	44.22	92.21	1,625.28	-1,436.01	5,388.45	5,304.92	83.53	64.511	
11,500.00	7,618.00	8,138.00	7,787.39	68.50	44.22	92.21	1,625.28	-1,436.01	5,439.33	5,355.63	83.70	64.984	
11,600.00	7,618.00	8,138.00	7,787.39	68.75	44.22	92.21	1,625.28	-1,436.01	5,491.55	5,407.67	83.88	65.467	
11,700.00	7,618.00	8,138.00	7,787.39	69.06	44.22	92.21	1,625.28	-1,436.01	5,545.09	5,461.02	84.07	65.959	
11,800.00	7,618.00	8,138.00	7,787.39	69.44	44.22	92.21	1,625.28	-1,436.01	5,599.90	5,515.64	84.26	66.460	
11,900.00	7,618.00	8,138.00	7,787.39	69.88	44.22	92.21	1,625.28	-1,436.01	5,655.95	5,571.49	84.45	66.970	
12,000.00	7,618.00	8,138.00	7,787.39	70.39	44.22	92.21	1,625.28	-1,436.01	5,713.20	5,628.54	84.65	67.489	
12,100.00	7,618.00	8,138.00	7,787.39	70.97	44.22	92.21	1,625.28	-1,436.01	5,771.61	5,686.76	84.86	68.017	
12,200.00	7,618.00	8,138.00	7,787.39	71.63	44.22	92.21	1,625.28	-1,436.01	5,831.15	5,746.09	85.06	68.553	
12,300.00	7,618.00	8,138.00	7,787.39	72.35	44.22	92.21	1,625.28	-1,436.01	5,891.79	5,806.53	85.27	69.098	
12,400.00	7,618.00	8,138.00	7,787.39	73.15	44.22	92.21	1,625.28	-1,436.01	5,953.49	5,868.02	85.48	69.651	
12,500.00	7,618.00	8,138.00	7,787.39	74.01	44.22	92.21	1,625.28	-1,436.01	6,016.23	5,930.54	85.69	70.211	
12,600.00	7,618.00	8,138.00	7,787.39	74.93	44.22	92.21	1,625.28	-1,436.01	6,079.95	5,994.05	85.90	70.780	
12,700.00	7,618.00	8,138.00	7,787.39	75.91	44.22	92.21	1,625.28	-1,436.01	6,144.65	6,058.54	86.11	71.357	
12,800.00	7,618.00	8,138.00	7,787.39	76.95	44.22	92.21	1,625.28	-1,436.01	6,210.28	6,123.95	86.33	71.941	
12,900.00	7,618.00	8,138.00	7,787.39	78.04	44.22	92.21	1,625.28	-1,436.01	6,276.82	6,190.28	86.54	72.532	
13,000.00	7,618.00	8,138.00	7,787.39	79.16	44.22	92.21	1,625.28	-1,436.01	6,344.23	6,257.48	86.75	73.131	
13,100.00	7,618.00	8,138.00	7,787.39	80.33	44.22	92.21	1,625.28	-1,436.01	6,412.50	6,325.54	86.97	73.736	
13,200.00	7,618.00	8,138.00	7,787.39	81.54	44.22	92.21	1,625.28	-1,436.01	6,481.59	6,394.41	87.18	74.349	
13,300.00	7,618.00	8,138.00	7,787.39	82.78	44.22	92.21	1,625.28	-1,436.01	6,551.48	6,464.09	87.39	74.968	
13,400.00	7,618.00	8,138.00	7,787.39	84.05	44.22	92.21	1,625.28	-1,436.01	6,622.14	6,534.54	87.60	75.594	
13,500.00	7,618.00	8,138.00	7,787.39	85.35	44.22	92.21	1,625.28	-1,436.01	6,693.55	6,605.74	87.81	76.226	
13,600.00	7,618.00	8,138.00	7,787.39	86.67	44.22	92.21	1,625.28	-1,436.01	6,765.69	6,677.67	88.02	76.865	
13,700.00	7,618.00	8,138.00	7,787.39	88.02	44.22	92.21	1,625.28	-1,436.01	6,838.52	6,750.29	88.23	77.510	
13,800.00	7,618.00	8,138.00	7,787.39	89.38	44.22	92.21	1,625.28	-1,436.01	6,912.04	6,823.60	88.43	78.161	
13,900.00	7,618.00	8,138.00	7,787.39	90.77	44.22	92.21	1,625.28	-1,436.01	6,986.21	6,897.57	88.64	78.817	
14,000.00	7,618.00	8,138.00	7,787.39	92.17	44.22	92.21	1,625.28	-1,436.01	7,061.02	6,972.18	88.84	79.479	
14,100.00	7,618.00	8,138.00	7,787.39	93.59	44.22	92.21	1,625.28	-1,436.01	7,136.45	7,047.40	89.04	80.147	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,618.00	8,138.00	7,787.39	95.02	44.22	92.21	1,625.28	-1,436.01	7,212.47	7,123.23	89.24	80.820	
14,300.00	7,618.00	8,138.00	7,787.39	96.47	44.22	92.21	1,625.28	-1,436.01	7,289.07	7,199.64	89.44	81.499	
14,400.00	7,618.00	8,138.00	7,787.39	97.93	44.22	92.21	1,625.28	-1,436.01	7,366.24	7,276.60	89.63	82.182	
14,500.00	7,618.00	8,138.00	7,787.39	99.41	44.22	92.21	1,625.28	-1,436.01	7,443.95	7,354.12	89.83	82.870	
14,600.00	7,618.00	8,138.00	7,787.39	100.89	44.22	92.21	1,625.28	-1,436.01	7,522.18	7,432.16	90.02	83.564	
14,700.00	7,618.00	8,138.00	7,787.39	102.38	44.22	92.21	1,625.28	-1,436.01	7,600.92	7,510.72	90.21	84.261	
14,800.00	7,618.00	8,138.00	7,787.39	103.89	44.22	92.21	1,625.28	-1,436.01	7,680.16	7,589.77	90.39	84.964	
14,900.00	7,618.00	8,138.00	7,787.39	105.40	44.22	92.21	1,625.28	-1,436.01	7,759.88	7,669.31	90.58	85.671	
15,000.00	7,618.00	8,138.00	7,787.39	106.92	44.22	92.21	1,625.28	-1,436.01	7,840.07	7,749.31	90.76	86.382	
15,100.00	7,618.00	8,138.00	7,787.39	108.45	44.22	92.21	1,625.28	-1,436.01	7,920.70	7,829.76	90.94	87.097	
15,200.00	7,618.00	8,138.00	7,787.39	109.99	44.22	92.21	1,625.28	-1,436.01	8,001.77	7,910.66	91.12	87.817	
15,300.00	7,618.00	8,138.00	7,787.39	111.54	44.22	92.21	1,625.28	-1,436.01	8,083.27	7,991.98	91.30	88.540	
15,400.00	7,618.00	8,138.00	7,787.39	113.09	44.22	92.21	1,625.28	-1,436.01	8,165.18	8,073.71	91.47	89.267	
15,500.00	7,618.00	8,138.00	7,787.39	114.65	44.22	92.21	1,625.28	-1,436.01	8,247.48	8,155.84	91.64	89.998	
15,600.00	7,618.00	8,138.00	7,787.39	116.21	44.22	92.21	1,625.28	-1,436.01	8,330.18	8,238.37	91.81	90.732	
15,700.00	7,618.00	8,138.00	7,787.39	117.78	44.22	92.21	1,625.28	-1,436.01	8,413.25	8,321.27	91.98	91.470	
15,800.00	7,618.00	8,138.00	7,787.39	119.36	44.22	92.21	1,625.28	-1,436.01	8,496.68	8,404.54	92.14	92.211	
15,900.00	7,618.00	8,138.00	7,787.39	120.94	44.22	92.21	1,625.28	-1,436.01	8,580.47	8,488.16	92.31	92.955	
16,000.00	7,618.00	8,138.00	7,787.39	122.53	44.22	92.21	1,625.28	-1,436.01	8,664.60	8,572.13	92.47	93.703	
16,100.00	7,618.00	8,138.00	7,787.39	124.12	44.22	92.21	1,625.28	-1,436.01	8,749.07	8,656.44	92.63	94.453	
16,200.00	7,618.00	8,138.00	7,787.39	125.72	44.22	92.21	1,625.28	-1,436.01	8,833.86	8,741.07	92.79	95.207	
16,300.00	7,618.00	8,138.00	7,787.39	127.32	44.22	92.21	1,625.28	-1,436.01	8,918.97	8,826.02	92.94	95.963	
16,400.00	7,618.00	8,138.00	7,787.39	128.93	44.22	92.21	1,625.28	-1,436.01	9,004.38	8,911.28	93.10	96.722	
16,500.00	7,618.00	8,138.00	7,787.39	130.54	44.22	92.21	1,625.28	-1,436.01	9,090.09	8,996.84	93.25	97.484	
16,600.00	7,618.00	8,138.00	7,787.39	132.15	44.22	92.21	1,625.28	-1,436.01	9,176.09	9,082.69	93.40	98.248	
16,700.00	7,618.00	8,138.00	7,787.39	133.77	44.22	92.21	1,625.28	-1,436.01	9,262.37	9,168.82	93.54	99.015	
16,800.00	7,618.00	8,138.00	7,787.39	135.39	44.22	92.21	1,625.28	-1,436.01	9,348.92	9,255.23	93.69	99.784	
16,900.00	7,618.00	8,138.00	7,787.39	137.01	44.22	92.21	1,625.28	-1,436.01	9,435.74	9,341.90	93.84	100.556	
17,000.00	7,618.00	8,138.00	7,787.39	138.64	44.22	92.21	1,625.28	-1,436.01	9,522.82	9,428.84	93.98	101.330	
17,100.00	7,618.00	8,138.00	7,787.39	140.27	44.22	92.21	1,625.28	-1,436.01	9,610.15	9,516.03	94.12	102.106	
17,200.00	7,618.00	8,138.00	7,787.39	141.91	44.22	92.21	1,625.28	-1,436.01	9,697.72	9,603.46	94.26	102.883	
17,300.00	7,618.00	8,138.00	7,787.39	143.55	44.22	92.21	1,625.28	-1,436.01	9,785.53	9,691.13	94.40	103.663	
17,400.00	7,618.00	8,138.00	7,787.39	145.19	44.22	92.21	1,625.28	-1,436.01	9,873.58	9,779.04	94.53	104.445	
17,500.00	7,618.00	8,138.00	7,787.39	146.83	44.22	92.21	1,625.28	-1,436.01	9,961.85	9,867.18	94.67	105.229	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-25.58	218.21	-104.44	242.12				
100.00	100.00	89.24	89.24	0.13	0.14	-25.56	218.36	-104.45	242.06	241.78	0.28	865.972	CC
200.00	200.00	187.44	187.43	0.49	0.40	-25.43	219.13	-104.18	242.65	241.75	0.89	271.281	ES
300.00	300.00	283.08	283.01	0.85	0.75	-24.71	221.99	-102.15	244.46	242.86	1.60	152.833	
400.00	400.00	379.00	378.69	1.21	1.10	-23.44	227.57	-98.64	248.29	245.98	2.31	107.436	
500.00	500.00	473.55	472.71	1.57	1.46	-21.49	235.62	-92.78	253.82	250.80	3.03	83.852	
600.00	600.00	565.22	563.39	1.93	1.84	-19.03	246.62	-85.04	262.22	258.47	3.75	69.990	
700.00	700.00	654.77	651.46	2.29	2.23	-16.41	260.50	-76.71	274.28	269.82	4.46	61.471	
800.00	800.00	747.73	742.37	2.64	2.66	-13.72	277.71	-67.79	289.80	284.61	5.19	55.821	
900.00	900.00	839.51	831.87	3.00	3.10	-11.25	295.99	-58.85	307.33	301.42	5.91	51.985	
1,000.00	999.98	930.71	920.43	3.36	3.55	-66.16	316.06	-50.46	326.85	320.23	6.62	49.350	
1,100.00	1,099.84	1,028.26	1,014.95	3.71	4.05	-64.59	338.67	-42.07	346.49	339.13	7.36	47.091	
1,200.00	1,199.45	1,128.20	1,111.92	4.07	4.57	-63.68	361.28	-33.49	364.20	356.07	8.13	44.803	
1,300.00	1,298.70	1,230.55	1,211.25	4.44	5.10	-63.21	383.97	-23.76	379.85	370.92	8.93	42.532	
1,400.00	1,397.47	1,337.25	1,315.21	4.82	5.64	-63.43	405.99	-14.27	392.48	382.70	9.78	40.137	
1,500.00	1,495.62	1,425.32	1,401.01	5.22	6.09	-64.02	424.43	-6.86	403.97	393.44	10.53	38.348	
1,600.00	1,593.06	1,521.86	1,494.58	5.65	6.60	-64.90	446.44	2.10	415.83	404.44	11.39	36.520	
1,700.00	1,689.64	1,615.25	1,584.64	6.11	7.11	-65.81	468.81	12.64	427.26	414.99	12.27	34.826	
1,800.00	1,785.27	1,719.72	1,685.19	6.61	7.70	-67.11	494.06	25.48	437.54	424.24	13.29	32.919	
1,900.00	1,879.82	1,824.30	1,786.17	7.15	8.27	-68.87	518.04	38.25	445.61	431.24	14.37	31.000	
2,000.00	1,973.17	1,933.97	1,892.71	7.73	8.85	-71.31	540.72	50.99	450.93	435.38	15.56	28.985	
2,100.00	2,065.21	2,040.49	1,996.92	8.37	9.37	-74.37	559.84	62.02	453.79	437.01	16.78	27.039	
2,200.00	2,155.84	2,142.00	2,096.88	9.07	9.84	-78.08	575.52	70.09	455.64	437.59	18.06	25.235	
2,300.00	2,244.94	2,238.53	2,191.90	9.82	10.28	-81.84	589.99	78.94	457.96	438.58	19.38	23.632	
2,400.00	2,332.39	2,328.14	2,279.97	10.64	10.70	-85.51	604.00	87.77	462.36	441.62	20.74	22.291	
2,500.00	2,418.11	2,416.89	2,366.84	11.53	11.13	-89.18	619.52	97.20	470.19	448.03	22.16	21.218	
2,558.91	2,467.74	2,470.12	2,418.88	12.08	11.39	-91.45	629.19	102.84	476.34	453.32	23.02	20.692	
2,600.00	2,502.13	2,508.89	2,456.79	12.47	11.58	-93.19	636.23	106.96	481.23	457.60	23.63	20.363	
2,700.00	2,585.83	2,599.22	2,545.10	13.45	12.03	-97.13	652.56	116.62	494.99	469.92	25.07	19.743	
2,800.00	2,669.53	2,687.03	2,630.77	14.44	12.48	-100.70	669.43	125.96	512.10	485.65	26.45	19.364	
2,900.00	2,753.22	2,791.80	2,733.03	15.46	13.00	-104.70	689.38	136.97	531.56	503.67	27.89	19.059	
3,000.00	2,836.92	2,894.03	2,833.19	16.48	13.50	-108.49	705.40	149.70	549.62	520.39	29.23	18.800	
3,100.00	2,920.62	2,982.96	2,920.16	17.52	13.94	-111.51	720.00	161.11	569.84	539.39	30.44	18.719	
3,200.00	3,004.32	3,081.08	3,015.89	18.56	14.43	-114.52	737.18	174.09	591.95	560.27	31.67	18.688	SF
3,300.00	3,088.01	3,169.87	3,102.10	19.61	14.90	-116.90	753.81	187.32	614.61	581.78	32.83	18.722	
3,400.00	3,171.71	3,256.87	3,186.67	20.67	15.35	-119.09	770.57	198.92	639.88	605.96	33.92	18.866	
3,500.00	3,255.41	3,348.29	3,275.97	21.73	15.81	-121.41	786.61	210.11	666.53	631.56	34.97	19.058	
3,600.00	3,339.10	3,432.91	3,358.44	22.80	16.24	-123.31	802.49	220.48	694.61	658.65	35.96	19.317	
3,700.00	3,422.80	3,519.59	3,442.79	23.87	16.69	-125.06	820.08	229.87	725.15	688.20	36.95	19.625	
3,800.00	3,506.50	3,624.83	3,545.26	24.94	17.24	-127.06	840.46	242.50	755.09	717.01	38.08	19.827	
3,900.00	3,590.20	3,719.62	3,637.26	26.02	17.74	-128.63	859.83	254.60	785.28	746.14	39.13	20.067	
4,000.00	3,673.89	3,811.19	3,726.26	27.10	18.22	-130.09	877.81	266.46	815.62	775.49	40.13	20.325	
4,100.00	3,757.59	3,905.32	3,817.71	28.18	18.72	-131.46	896.87	278.10	847.09	805.94	41.15	20.587	
4,200.00	3,841.29	3,996.82	3,905.95	29.26	19.22	-132.53	917.41	290.78	877.99	835.81	42.18	20.813	
4,300.00	3,924.99	4,070.78	3,977.70	30.35	19.62	-133.43	933.21	299.32	911.08	868.06	43.01	21.182	
4,400.00	4,008.68	4,163.07	4,067.44	31.44	20.11	-134.52	952.34	309.20	945.20	901.21	43.99	21.487	
4,500.00	4,092.38	4,246.98	4,149.18	32.52	20.54	-135.48	969.34	317.63	980.15	935.29	44.86	21.847	
4,600.00	4,176.08	4,353.70	4,253.50	33.62	21.07	-136.73	989.08	328.45	1,015.14	969.23	45.91	22.112	
4,700.00	4,259.77	4,455.83	4,353.54	34.71	21.56	-137.95	1,005.89	340.28	1,048.87	1,002.02	46.85	22.386	
4,800.00	4,343.47	4,531.70	4,427.98	35.80	21.93	-138.83	1,017.93	348.54	1,083.58	1,036.03	47.55	22.789	
4,900.00	4,427.17	4,603.01	4,498.23	36.89	22.25	-139.67	1,028.35	355.06	1,120.14	1,071.98	48.16	23.260	
5,000.00	4,510.87	4,676.86	4,571.30	37.99	22.55	-140.59	1,037.49	360.50	1,158.54	1,109.82	48.72	23.778	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	4,747.59	4,641.57	39.08	22.83	-141.52	1,044.41	364.65	1,198.61	1,149.41	49.20	24.364	
5,200.00	4,678.26	4,816.06	4,709.77	40.18	23.07	-142.45	1,049.71	367.50	1,240.57	1,190.97	49.60	25.012	
5,300.00	4,761.96	4,887.89	4,781.44	41.28	23.31	-143.44	1,054.01	369.53	1,284.15	1,234.16	49.99	25.688	
5,400.00	4,845.66	4,962.06	4,855.54	42.37	23.53	-144.48	1,056.96	370.87	1,329.12	1,278.77	50.36	26.395	
5,500.00	4,929.35	5,043.55	4,937.01	43.47	23.77	-145.63	1,058.47	371.85	1,375.16	1,324.41	50.75	27.098	
5,600.00	5,013.05	5,126.27	5,019.71	44.57	23.99	-146.75	1,059.51	372.86	1,421.71	1,370.57	51.14	27.799	
5,700.00	5,096.75	5,198.58	5,092.02	45.67	24.18	-147.72	1,059.53	373.54	1,469.06	1,417.62	51.44	28.558	
5,800.00	5,180.45	5,258.06	5,151.50	46.77	24.33	-148.46	1,059.74	373.25	1,518.00	1,466.36	51.64	29.395	
5,900.00	5,264.14	5,332.78	5,226.20	47.87	24.53	-149.34	1,060.45	371.95	1,568.31	1,516.32	51.99	30.164	
6,000.00	5,347.84	5,417.92	5,311.32	48.97	24.75	-150.27	1,061.32	370.31	1,619.12	1,566.66	52.45	30.868	
6,100.00	5,431.54	5,505.85	5,399.24	50.07	24.97	-151.18	1,062.16	368.89	1,669.98	1,617.03	52.95	31.539	
6,200.00	5,515.23	5,585.43	5,478.81	51.17	25.18	-151.98	1,062.57	367.76	1,721.02	1,667.64	53.38	32.244	
6,300.00	5,598.93	5,659.92	5,553.28	52.27	25.37	-152.69	1,062.62	366.35	1,772.77	1,719.01	53.76	32.976	
6,400.00	5,682.63	5,749.09	5,642.44	53.38	25.60	-153.50	1,062.65	364.69	1,824.77	1,770.49	54.28	33.615	
6,500.00	5,766.33	5,829.15	5,722.49	54.48	25.81	-154.19	1,062.82	363.22	1,876.94	1,822.20	54.74	34.286	
6,600.00	5,850.02	5,936.21	5,829.54	55.58	26.09	-155.05	1,063.34	361.82	1,928.85	1,873.39	55.46	34.777	
6,700.00	5,933.72	5,999.24	5,892.56	56.68	26.26	-155.53	1,063.63	360.98	1,980.95	1,925.15	55.80	35.501	
6,800.00	6,017.42	6,093.72	5,987.03	57.79	26.52	-156.22	1,063.85	359.52	2,033.49	1,977.06	56.42	36.041	
6,900.00	6,101.12	6,184.64	6,077.94	58.89	26.76	-156.85	1,064.01	358.78	2,085.58	2,028.57	57.02	36.578	
7,000.00	6,184.81	6,257.06	6,150.37	59.99	26.96	-157.33	1,064.19	358.14	2,137.88	2,080.42	57.46	37.207	
7,100.00	6,268.51	6,334.38	6,227.67	61.10	27.18	-157.82	1,064.42	356.95	2,190.84	2,132.89	57.96	37.802	
7,200.00	6,352.21	6,426.24	6,319.52	62.20	27.43	-158.38	1,064.63	355.77	2,243.74	2,185.15	58.59	38.297	
7,300.00	6,435.90	6,527.83	6,421.11	63.31	27.71	-158.98	1,064.51	355.00	2,296.45	2,237.14	59.30	38.724	
7,400.00	6,519.60	6,631.53	6,524.80	64.41	27.99	-159.60	1,063.21	355.79	2,348.24	2,288.22	60.01	39.128	
7,500.00	6,603.30	6,713.69	6,606.95	65.51	28.21	-160.07	1,062.00	356.68	2,399.98	2,339.43	60.55	39.637	
7,600.00	6,687.00	6,793.61	6,686.85	66.62	28.42	-160.51	1,061.14	357.31	2,452.00	2,390.92	61.08	40.145	
7,700.00	6,770.69	6,880.48	6,773.73	67.72	28.66	-160.95	1,060.51	357.87	2,504.17	2,442.49	61.68	40.600	
7,800.00	6,854.39	6,976.24	6,869.48	68.83	28.94	-161.41	1,060.30	358.74	2,556.10	2,493.72	62.37	40.980	
7,900.00	6,938.09	7,061.01	6,954.24	69.93	29.19	-161.79	1,060.82	359.46	2,607.95	2,544.96	63.00	41.399	
7,933.18	6,965.86	7,088.61	6,981.84	70.30	29.27	-161.90	1,061.06	359.67	2,625.18	2,561.98	63.20	41.537	
7,950.00	6,980.00	7,102.65	6,995.88	70.49	29.32	-165.27	1,061.18	359.78	2,633.87	2,570.57	63.30	41.606	
8,000.00	7,022.68	7,146.02	7,039.25	71.01	29.45	-175.79	1,061.50	360.12	2,659.21	2,595.58	63.63	41.789	
8,050.00	7,066.06	7,203.77	7,096.99	71.51	29.62	173.11	1,061.99	360.73	2,683.48	2,619.38	64.10	41.866	
8,100.00	7,109.82	7,268.26	7,161.47	71.97	29.82	161.85	1,062.68	361.77	2,706.37	2,641.75	64.62	41.882	
8,150.00	7,153.63	7,340.34	7,233.52	72.38	30.05	150.92	1,063.30	363.68	2,727.57	2,662.36	65.20	41.832	
8,200.00	7,197.14	7,378.69	7,271.85	72.74	30.16	140.55	1,063.51	364.85	2,747.22	2,681.72	65.51	41.938	
8,250.00	7,240.04	7,421.05	7,314.19	73.05	30.29	131.28	1,063.62	366.17	2,765.40	2,699.55	65.85	41.996	
8,300.00	7,281.99	7,459.57	7,352.69	73.31	30.41	123.22	1,063.77	367.32	2,782.05	2,715.88	66.17	42.044	
8,350.00	7,322.67	7,496.54	7,389.65	73.52	30.53	116.40	1,064.12	368.31	2,797.14	2,730.65	66.49	42.068	
8,400.00	7,361.77	7,535.26	7,428.35	73.68	30.65	110.77	1,064.68	369.24	2,810.66	2,743.81	66.84	42.049	
8,450.00	7,399.01	7,575.61	7,468.69	73.78	30.78	106.20	1,065.35	370.23	2,822.51	2,755.28	67.23	41.985	
8,500.00	7,434.08	7,613.46	7,506.52	73.85	30.90	102.50	1,066.03	371.17	2,832.70	2,765.09	67.61	41.900	
8,550.00	7,466.74	7,648.07	7,541.12	73.87	31.01	99.53	1,066.63	372.08	2,841.28	2,773.30	67.98	41.797	
8,600.00	7,496.72	7,680.03	7,573.06	73.85	31.12	97.17	1,067.10	372.95	2,848.29	2,779.94	68.35	41.673	
8,650.00	7,523.80	7,708.99	7,602.00	73.79	31.21	95.33	1,067.48	373.78	2,853.77	2,785.06	68.72	41.528	
8,700.00	7,547.77	7,723.92	7,616.92	73.70	31.26	93.73	1,067.65	374.18	2,857.86	2,788.86	69.00	41.419	
8,750.00	7,568.45	7,738.52	7,631.52	73.58	31.30	92.56	1,067.79	374.55	2,860.59	2,791.29	69.31	41.275	
8,800.00	7,585.69	7,750.67	7,643.67	73.43	31.34	91.72	1,067.91	374.83	2,862.02	2,792.39	69.62	41.108	
8,850.00	7,599.35	7,760.26	7,653.26	73.26	31.37	91.18	1,067.98	375.05	2,862.16	2,792.21	69.95	40.917	
8,900.00	7,609.33	7,767.22	7,660.21	73.07	31.39	90.92	1,068.04	375.19	2,861.07	2,790.78	70.29	40.705	
8,950.00	7,615.55	7,771.47	7,664.46	72.87	31.41	90.90	1,068.07	375.28	2,858.76	2,788.13	70.64	40.472	
9,000.00	7,617.97	7,772.97	7,665.97	72.65	31.41	91.12	1,068.08	375.31	2,855.29	2,784.30	70.99	40.220	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,006.60	7,618.00	7,772.97	7,665.96	72.62	31.41	91.17	1,068.08	375.31	2,854.74	2,783.70	71.04	40.185	
9,100.00	7,618.00	7,772.49	7,665.48	72.22	31.41	91.16	1,068.08	375.30	2,848.41	2,776.68	71.73	39.711	
9,200.00	7,618.00	7,771.97	7,664.97	71.80	31.41	91.15	1,068.07	375.29	2,845.01	2,772.52	72.49	39.248	
9,246.72	7,618.00	7,771.73	7,664.72	71.62	31.41	91.14	1,068.07	375.28	2,844.63	2,771.77	72.86	39.043	
9,300.00	7,618.00	7,771.45	7,664.44	71.41	31.41	91.14	1,068.07	375.28	2,845.12	2,771.86	73.27	38.833	
9,400.00	7,618.00	7,770.93	7,663.92	71.04	31.40	91.13	1,068.07	375.27	2,848.75	2,774.70	74.06	38.468	
9,500.00	7,618.00	7,770.39	7,663.38	70.68	31.40	91.12	1,068.06	375.26	2,855.88	2,781.03	74.85	38.155	
9,600.00	7,618.00	7,769.85	7,662.85	70.35	31.40	91.10	1,068.06	375.25	2,866.48	2,790.84	75.64	37.896	
9,700.00	7,618.00	7,769.31	7,662.30	70.04	31.40	91.09	1,068.05	375.23	2,880.51	2,804.09	76.43	37.690	
9,800.00	7,618.00	7,768.76	7,661.75	69.75	31.40	91.08	1,068.05	375.22	2,897.93	2,820.73	77.20	37.539	
9,900.00	7,618.00	7,768.20	7,661.19	69.47	31.40	91.07	1,068.05	375.21	2,918.67	2,840.72	77.95	37.443	
10,000.00	7,618.00	7,767.63	7,660.63	69.22	31.39	91.06	1,068.04	375.20	2,942.67	2,863.99	78.68	37.400	
10,100.00	7,618.00	7,767.06	7,660.05	68.99	31.39	91.05	1,068.04	375.19	2,969.84	2,890.46	79.38	37.411	
10,200.00	7,618.00	7,766.48	7,659.48	68.78	31.39	91.04	1,068.03	375.18	3,000.10	2,920.04	80.06	37.473	
10,300.00	7,618.00	7,765.90	7,658.89	68.59	31.39	91.03	1,068.03	375.16	3,033.36	2,952.65	80.70	37.586	
10,400.00	7,618.00	7,765.31	7,658.30	68.42	31.39	91.01	1,068.02	375.15	3,069.51	2,988.20	81.32	37.748	
10,500.00	7,618.00	7,764.71	7,657.70	68.28	31.38	91.00	1,068.02	375.14	3,108.46	3,026.57	81.89	37.958	
10,600.00	7,618.00	7,764.10	7,657.09	68.16	31.38	90.99	1,068.01	375.13	3,150.11	3,067.67	82.44	38.213	
10,700.00	7,618.00	7,763.49	7,656.48	68.06	31.38	90.98	1,068.01	375.11	3,194.34	3,111.40	82.94	38.512	
10,800.00	7,618.00	7,762.86	7,655.86	67.99	31.38	90.96	1,068.01	375.10	3,241.06	3,157.64	83.42	38.854	
10,900.00	7,618.00	7,762.23	7,655.23	67.95	31.38	90.95	1,068.00	375.09	3,290.15	3,206.30	83.86	39.235	
11,000.00	7,618.00	7,761.60	7,654.59	67.95	31.37	90.94	1,068.00	375.07	3,341.52	3,257.26	84.26	39.655	
11,100.00	7,618.00	7,760.95	7,653.95	67.97	31.37	90.93	1,067.99	375.06	3,395.05	3,310.41	84.64	40.112	
11,200.00	7,618.00	7,760.30	7,653.29	68.04	31.37	90.91	1,067.99	375.05	3,450.66	3,365.67	84.99	40.603	
11,300.00	7,618.00	7,759.64	7,652.63	68.15	31.37	90.90	1,067.98	375.03	3,508.23	3,422.93	85.30	41.127	
11,400.00	7,618.00	7,758.97	7,651.96	68.30	31.37	90.89	1,067.97	375.02	3,567.68	3,482.08	85.59	41.682	
11,500.00	7,618.00	7,758.29	7,651.28	68.50	31.36	90.87	1,067.97	375.00	3,628.90	3,543.05	85.86	42.267	
11,600.00	7,618.00	7,757.60	7,650.60	68.75	31.36	90.86	1,067.96	374.99	3,691.83	3,605.73	86.10	42.880	
11,700.00	7,618.00	7,756.90	7,649.90	69.06	31.36	90.84	1,067.96	374.97	3,756.36	3,670.04	86.31	43.520	
11,800.00	7,618.00	7,756.20	7,649.19	69.44	31.36	90.83	1,067.95	374.96	3,822.41	3,735.90	86.51	44.185	
11,900.00	7,618.00	7,755.48	7,648.48	69.88	31.36	90.82	1,067.95	374.94	3,889.92	3,803.23	86.69	44.873	
12,000.00	7,618.00	7,754.76	7,647.75	70.39	31.35	90.80	1,067.94	374.93	3,958.80	3,871.96	86.85	45.585	
12,100.00	7,618.00	7,754.02	7,647.02	70.97	31.35	90.79	1,067.93	374.91	4,028.99	3,942.00	86.99	46.317	
12,200.00	7,618.00	7,753.28	7,646.28	71.63	31.35	90.77	1,067.93	374.89	4,100.41	4,013.30	87.11	47.070	
12,300.00	7,618.00	7,752.53	7,645.52	72.35	31.35	90.76	1,067.92	374.88	4,173.01	4,085.78	87.23	47.841	
12,400.00	7,618.00	7,751.76	7,644.76	73.15	31.34	90.74	1,067.91	374.86	4,246.72	4,159.39	87.33	48.631	
12,500.00	7,618.00	7,750.99	7,643.98	74.01	31.34	90.72	1,067.91	374.84	4,321.49	4,234.07	87.41	49.437	
12,600.00	7,618.00	7,750.20	7,643.20	74.93	31.34	90.71	1,067.90	374.82	4,397.26	4,309.77	87.49	50.260	
12,700.00	7,618.00	7,749.40	7,642.40	75.91	31.34	90.69	1,067.89	374.81	4,473.98	4,386.42	87.56	51.098	
12,800.00	7,618.00	7,748.60	7,641.59	76.95	31.33	90.68	1,067.89	374.79	4,551.60	4,463.99	87.61	51.950	
12,900.00	7,618.00	7,747.78	7,640.78	78.04	31.33	90.66	1,067.88	374.77	4,630.09	4,542.42	87.66	52.816	
13,000.00	7,618.00	7,746.95	7,639.94	79.16	31.33	90.64	1,067.87	374.75	4,709.39	4,621.68	87.71	53.695	
13,100.00	7,618.00	7,746.10	7,639.10	80.33	31.33	90.63	1,067.86	374.73	4,789.46	4,701.72	87.74	54.586	
13,200.00	7,618.00	7,745.25	7,638.25	81.54	31.32	90.61	1,067.86	374.71	4,870.27	4,782.50	87.77	55.489	
13,300.00	7,618.00	7,744.38	7,637.38	82.78	31.32	90.59	1,067.85	374.69	4,951.78	4,863.99	87.79	56.402	
13,400.00	7,618.00	7,743.50	7,636.50	84.05	31.32	90.57	1,067.84	374.67	5,033.96	4,946.15	87.81	57.326	
13,500.00	7,618.00	7,742.61	7,635.61	85.35	31.32	90.56	1,067.83	374.65	5,116.78	5,028.95	87.83	58.260	
13,600.00	7,618.00	7,741.70	7,634.70	86.67	31.31	90.54	1,067.82	374.63	5,200.19	5,112.35	87.84	59.203	
13,700.00	7,618.00	7,740.78	7,633.78	88.02	31.31	90.52	1,067.82	374.60	5,284.18	5,196.34	87.84	60.154	
13,800.00	7,618.00	7,739.85	7,632.85	89.38	31.31	90.50	1,067.81	374.58	5,368.72	5,280.88	87.85	61.114	
13,900.00	7,618.00	7,738.90	7,631.90	90.77	31.30	90.48	1,067.80	374.56	5,453.79	5,365.94	87.85	62.082	
14,000.00	7,618.00	7,737.93	7,630.94	92.17	31.30	90.46	1,067.79	374.53	5,539.35	5,451.51	87.85	63.058	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,618.00	7,736.96	7,629.96	93.59	31.30	90.44	1,067.78	374.51	5,625.39	5,537.55	87.84	64.041	
14,200.00	7,618.00	7,735.96	7,628.97	95.02	31.29	90.42	1,067.77	374.49	5,711.88	5,624.05	87.83	65.030	
14,300.00	7,618.00	7,734.95	7,627.96	96.47	31.29	90.40	1,067.76	374.46	5,798.81	5,710.98	87.83	66.025	
14,400.00	7,618.00	7,733.93	7,626.93	97.93	31.29	90.38	1,067.75	374.44	5,886.15	5,798.33	87.82	67.027	
14,500.00	7,618.00	7,732.89	7,625.89	99.41	31.28	90.36	1,067.74	374.41	5,973.89	5,886.08	87.81	68.035	
14,600.00	7,618.00	7,731.83	7,624.84	100.89	31.28	90.34	1,067.73	374.38	6,062.01	5,974.21	87.79	69.047	
14,700.00	7,618.00	7,730.76	7,623.76	102.38	31.28	90.32	1,067.72	374.36	6,150.49	6,062.71	87.78	70.065	
14,800.00	7,618.00	7,729.66	7,622.67	103.89	31.27	90.30	1,067.71	374.33	6,239.32	6,151.55	87.77	71.088	
14,900.00	7,618.00	7,728.55	7,621.56	105.40	31.27	90.27	1,067.69	374.30	6,328.48	6,240.73	87.75	72.116	
15,000.00	7,618.00	7,727.43	7,620.43	106.92	31.27	90.25	1,067.68	374.27	6,417.97	6,330.23	87.74	73.147	
15,100.00	7,618.00	7,726.28	7,619.28	108.45	31.26	90.23	1,067.67	374.24	6,507.75	6,420.03	87.73	74.183	
15,200.00	7,618.00	7,725.11	7,618.12	109.99	31.26	90.20	1,067.66	374.21	6,597.84	6,510.13	87.71	75.223	
15,300.00	7,618.00	7,723.92	7,616.93	111.54	31.26	90.18	1,067.65	374.18	6,688.20	6,600.50	87.69	76.267	
15,400.00	7,618.00	7,722.72	7,615.72	113.09	31.25	90.16	1,067.63	374.15	6,778.83	6,691.15	87.68	77.314	
15,500.00	7,618.00	7,721.49	7,614.50	114.65	31.25	90.13	1,067.62	374.12	6,869.73	6,782.06	87.66	78.364	
15,600.00	7,618.00	7,720.24	7,613.25	116.21	31.25	90.11	1,067.61	374.08	6,960.87	6,873.22	87.65	79.418	
15,700.00	7,618.00	7,718.97	7,611.98	117.78	31.24	90.08	1,067.59	374.05	7,052.25	6,964.62	87.63	80.474	
15,800.00	7,618.00	7,717.67	7,610.68	119.36	31.24	90.05	1,067.58	374.01	7,143.87	7,056.25	87.62	81.533	
15,900.00	7,618.00	15,900.00	7,581.14	120.94	57.97	89.46	1,067.17	373.20	7,235.70	7,120.43	115.27	62.773	
16,000.00	7,618.00	16,000.00	7,579.58	122.53	58.30	89.43	1,067.15	373.16	7,327.74	7,212.13	115.61	63.384	
16,100.00	7,618.00	16,100.00	7,578.02	124.12	58.63	89.40	1,067.13	373.12	7,419.99	7,304.04	115.95	63.994	
16,200.00	7,618.00	7,721.39	7,614.40	125.72	31.25	90.13	1,067.62	374.14	7,512.45	7,424.87	87.58	85.774	
16,300.00	7,618.00	7,718.69	7,611.69	127.32	31.24	90.07	1,067.59	374.06	7,605.10	7,517.53	87.57	86.848	
16,400.00	7,618.00	7,715.89	7,608.90	128.93	31.23	90.02	1,067.56	373.98	7,697.93	7,610.37	87.55	87.924	
16,500.00	7,618.00	7,713.00	7,606.01	130.54	31.22	89.96	1,067.52	373.90	7,790.93	7,703.40	87.54	89.001	
16,600.00	7,618.00	7,710.00	7,603.02	132.15	31.21	89.90	1,067.49	373.81	7,884.11	7,796.59	87.52	90.081	
16,700.00	7,618.00	7,706.91	7,599.92	133.77	31.20	89.84	1,067.45	373.72	7,977.45	7,889.94	87.51	91.163	
16,800.00	7,618.00	7,703.70	7,596.71	135.39	31.19	89.77	1,067.41	373.62	8,070.95	7,983.46	87.49	92.246	
16,900.00	7,618.00	7,700.37	7,593.39	137.01	31.18	89.71	1,067.37	373.53	8,164.60	8,077.12	87.48	93.331	
17,000.00	7,618.00	7,696.93	7,589.95	138.64	31.17	89.64	1,067.33	373.43	8,258.41	8,170.94	87.47	94.417	
17,100.00	7,618.00	7,693.35	7,586.37	140.27	31.16	89.56	1,067.28	373.33	8,352.35	8,264.90	87.45	95.505	
17,200.00	7,618.00	7,689.64	7,582.66	141.91	31.15	89.49	1,067.23	373.22	8,446.43	8,358.99	87.44	96.594	
17,300.00	7,618.00	7,685.78	7,578.80	143.55	31.14	89.41	1,067.18	373.11	8,540.65	8,453.22	87.43	97.684	
17,400.00	7,618.00	7,681.77	7,574.79	145.19	31.12	89.33	1,067.13	373.00	8,635.00	8,547.58	87.42	98.776	
17,500.00	7,618.00	7,677.59	7,570.62	146.83	31.11	89.25	1,067.07	372.88	8,729.47	8,642.06	87.41	99.868	
17,600.00	7,618.00	7,673.24	7,566.27	148.48	31.10	89.16	1,067.01	372.76	8,824.06	8,736.66	87.40	100.962	
17,700.00	7,618.00	7,668.71	7,561.74	150.13	31.08	89.07	1,066.94	372.64	8,918.77	8,831.38	87.39	102.057	
17,800.00	7,618.00	7,663.97	7,557.01	151.78	31.07	88.97	1,066.87	372.51	9,013.60	8,926.22	87.38	103.153	
17,900.00	7,618.00	7,659.03	7,552.07	153.43	31.05	88.87	1,066.80	372.37	9,108.53	9,021.16	87.37	104.250	
18,000.00	7,618.00	7,653.87	7,546.91	155.09	31.03	88.77	1,066.72	372.23	9,203.57	9,116.21	87.36	105.348	
18,100.00	7,618.00	7,648.46	7,541.51	156.75	31.02	88.66	1,066.63	372.09	9,298.72	9,211.36	87.36	106.446	
18,200.00	7,618.00	7,642.80	7,535.85	158.41	31.00	88.55	1,066.54	371.94	9,393.96	9,306.61	87.35	107.546	
18,300.00	7,618.00	7,636.87	7,529.92	160.07	30.98	88.43	1,066.44	371.78	9,489.30	9,401.96	87.34	108.646	
18,400.00	7,618.00	7,630.64	7,523.69	161.74	30.96	88.30	1,066.34	371.62	9,584.74	9,497.40	87.33	109.748	
18,500.00	7,618.00	7,624.09	7,517.14	163.41	30.94	88.17	1,066.22	371.44	9,680.26	9,592.93	87.33	110.850	
18,600.00	7,618.00	7,617.19	7,510.25	165.08	30.92	88.03	1,066.10	371.27	9,775.87	9,688.55	87.32	111.953	
18,700.00	7,618.00	7,609.93	7,502.99	166.75	30.89	87.89	1,065.96	371.08	9,871.57	9,784.26	87.32	113.057	
18,711.30	7,618.00	7,609.08	7,502.14	166.94	30.89	87.87	1,065.95	371.06	9,882.39	9,795.08	87.31	113.182	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-18.65	218.21	-73.64	230.52				
100.00	100.00	89.00	89.00	0.13	0.14	-18.64	218.41	-73.65	230.50	230.22	0.28	825.162	
200.00	200.00	188.41	188.41	0.49	0.40	-18.60	219.04	-73.72	231.11	230.22	0.90	257.389	
300.00	300.00	288.13	288.12	0.85	0.76	-18.59	219.74	-73.90	231.84	230.23	1.61	143.677	
400.00	400.00	391.73	391.72	1.21	1.12	-18.52	220.12	-73.75	232.16	229.82	2.33	99.489	
500.00	500.00	500.10	500.05	1.57	1.49	-18.25	217.95	-71.86	229.71	226.65	3.06	75.021	
600.00	600.00	608.57	608.26	1.93	1.88	-17.53	212.37	-67.09	223.46	219.67	3.80	58.860	
700.00	700.00	716.64	715.62	2.29	2.28	-16.09	203.42	-58.67	213.25	208.72	4.54	47.020	
800.00	800.00	822.77	820.37	2.64	2.71	-13.53	191.92	-46.18	199.72	194.44	5.28	37.855	
900.00	900.00	926.67	922.05	3.00	3.16	-9.64	177.74	-30.19	183.11	177.08	6.03	30.369	
1,000.00	999.98	1,024.93	1,017.60	3.36	3.63	-62.53	162.92	-12.78	164.93	158.12	6.80	24.241	
1,100.00	1,099.84	1,125.47	1,115.10	3.71	4.14	-57.91	146.81	5.73	145.24	137.62	7.62	19.065	
1,200.00	1,199.45	1,220.07	1,206.88	4.07	4.62	-53.48	131.73	22.98	124.84	116.38	8.46	14.751	
1,300.00	1,298.70	1,317.56	1,301.84	4.44	5.12	-49.34	116.98	39.40	103.95	94.63	9.33	11.148	
1,400.00	1,397.47	1,414.87	1,396.78	4.82	5.61	-45.36	102.26	54.88	81.31	71.11	10.20	7.972	
1,500.00	1,495.62	1,511.88	1,491.27	5.22	6.11	-39.75	87.11	70.76	56.49	45.37	11.12	5.082	
1,600.00	1,593.06	1,607.96	1,584.53	5.65	6.62	-25.74	71.09	87.38	29.63	17.51	12.11	2.446	
1,691.34	1,681.31	1,694.91	1,668.93	6.07	7.09	42.19	56.75	102.62	11.78	-0.34	12.12	0.972	Level 1, CC, ES, SF
1,700.00	1,689.64	1,703.15	1,676.94	6.11	7.13	54.45	55.42	104.06	12.07	0.07	12.00	1.006	Level 2
1,800.00	1,785.27	1,798.02	1,769.21	6.61	7.64	114.93	40.51	120.27	36.06	22.69	13.37	2.698	
1,900.00	1,879.82	1,892.30	1,861.09	7.15	8.13	126.99	26.09	135.73	68.75	54.23	14.51	4.736	
2,000.00	1,973.17	1,986.77	1,953.57	7.73	8.60	133.45	12.92	149.80	103.76	88.21	15.55	6.674	
2,100.00	2,065.21	2,079.96	2,045.16	8.37	9.05	138.01	1.52	162.68	140.62	124.11	16.51	8.517	
2,200.00	2,155.84	2,168.27	2,132.12	9.07	9.46	141.52	-9.42	173.40	181.27	163.88	17.39	10.423	
2,300.00	2,244.94	2,254.18	2,216.51	9.82	9.88	143.84	-21.54	184.01	226.31	208.06	18.25	12.401	
2,400.00	2,332.39	2,338.40	2,298.81	10.64	10.30	145.15	-35.15	195.66	275.26	256.14	19.12	14.394	
2,500.00	2,418.11	2,426.10	2,384.25	11.53	10.76	146.09	-49.89	208.77	326.97	306.89	20.08	16.285	
2,558.91	2,467.74	2,478.55	2,435.38	12.08	11.04	146.60	-58.37	216.86	358.26	337.60	20.66	17.342	
2,600.00	2,502.13	2,515.29	2,471.21	12.47	11.23	147.19	-64.08	222.64	380.18	359.12	21.06	18.049	
2,700.00	2,585.83	2,603.18	2,556.88	13.45	11.69	148.32	-77.37	237.07	433.02	410.98	22.04	19.650	
2,800.00	2,669.53	2,694.10	2,645.45	14.44	12.17	149.16	-90.56	252.79	485.11	462.06	23.05	21.044	
2,900.00	2,753.22	2,781.56	2,730.74	15.46	12.63	149.84	-102.44	268.11	536.48	512.45	24.03	22.324	
3,000.00	2,836.92	2,859.44	2,806.70	16.48	13.04	150.35	-113.19	281.51	588.22	563.31	24.91	23.616	
3,100.00	2,920.62	2,938.09	2,883.44	17.52	13.45	150.83	-124.92	294.10	641.30	615.51	25.79	24.866	
3,200.00	3,004.32	3,021.52	2,964.80	18.56	13.89	151.25	-137.72	307.43	694.74	668.01	26.73	25.987	
3,300.00	3,088.01	3,104.35	3,045.45	19.61	14.33	151.56	-150.77	321.04	748.30	720.62	27.68	27.033	
3,400.00	3,171.71	3,186.03	3,125.07	20.67	14.76	151.86	-163.70	333.89	802.24	773.63	28.61	28.037	
3,500.00	3,255.41	3,286.99	3,223.69	21.73	15.28	152.24	-178.49	349.69	855.41	825.65	29.76	28.748	
3,600.00	3,339.10	3,364.31	3,299.27	22.80	15.67	152.52	-189.46	361.70	908.31	877.68	30.63	29.655	
3,700.00	3,422.80	3,446.65	3,379.75	23.87	16.10	152.78	-201.41	374.41	961.50	929.94	31.56	30.464	
3,800.00	3,506.50	3,531.50	3,462.65	24.94	16.53	153.01	-213.84	387.51	1,014.81	982.29	32.53	31.200	
3,900.00	3,590.20	3,616.24	3,545.50	26.02	16.97	153.24	-226.08	400.41	1,068.09	1,034.61	33.49	31.896	
4,000.00	3,673.89	3,704.97	3,632.34	27.10	17.41	153.48	-238.60	413.68	1,121.28	1,086.80	34.48	32.515	
4,100.00	3,757.59	3,792.55	3,718.23	28.18	17.85	153.74	-250.15	426.28	1,174.11	1,138.65	35.46	33.111	
4,200.00	3,841.29	3,878.49	3,802.29	29.26	18.29	153.91	-262.09	439.65	1,226.87	1,190.44	36.44	33.669	
4,300.00	3,924.99	3,971.38	3,892.87	30.35	18.77	154.01	-275.49	455.21	1,279.45	1,241.94	37.51	34.108	
4,400.00	4,008.68	4,065.48	3,984.99	31.44	19.25	154.19	-287.51	470.23	1,331.24	1,292.66	38.58	34.505	
4,500.00	4,092.38	4,140.53	4,058.36	32.52	19.64	154.29	-297.30	482.62	1,382.99	1,343.54	39.45	35.056	
4,600.00	4,176.08	4,197.64	4,113.94	33.62	19.94	154.32	-306.08	492.31	1,436.12	1,395.98	40.13	35.783	
4,700.00	4,259.77	4,276.68	4,190.74	34.71	20.37	154.33	-319.36	505.49	1,490.36	1,449.28	41.08	36.282	
4,800.00	4,343.47	4,349.97	4,262.29	35.80	20.75	154.42	-330.89	516.36	1,544.79	1,502.87	41.92	36.850	
4,900.00	4,427.17	4,432.34	4,343.26	36.89	21.14	154.63	-342.73	525.77	1,599.94	1,557.12	42.82	37.367	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,510.87	4,534.02	4,443.77	37.99	21.58	155.01	-354.59	535.48	1,654.15	1,610.29	43.86	37.717	
5,100.00	4,594.56	4,621.52	4,530.62	39.08	21.94	155.41	-363.02	541.95	1,708.14	1,663.44	44.70	38.213	
5,200.00	4,678.26	4,715.08	4,623.68	40.18	22.29	155.88	-370.67	547.76	1,761.80	1,716.23	45.57	38.665	
5,300.00	4,761.96	4,806.82	4,715.11	41.28	22.62	156.38	-376.76	552.38	1,815.08	1,768.70	46.38	39.137	
5,400.00	4,845.66	4,889.79	4,797.92	42.37	22.90	156.87	-380.90	555.15	1,868.22	1,821.14	47.08	39.681	
5,500.00	4,929.35	4,960.83	4,868.86	43.47	23.13	157.30	-384.27	556.79	1,921.83	1,874.16	47.67	40.315	
5,600.00	5,013.05	5,025.39	4,933.34	44.57	23.33	157.68	-387.49	557.66	1,976.20	1,928.00	48.20	41.004	
5,700.00	5,096.75	5,089.71	4,997.56	45.67	23.53	158.05	-390.94	557.88	2,031.43	1,982.72	48.71	41.704	
5,800.00	5,180.45	5,248.67	5,156.32	46.77	24.01	158.94	-398.45	558.47	2,087.02	2,037.06	49.96	41.776	
5,900.00	5,264.14	5,332.39	5,240.04	47.87	24.24	159.44	-399.37	558.71	2,139.75	2,089.16	50.59	42.296	
6,000.00	5,347.84	5,418.06	5,325.70	48.97	24.46	159.95	-399.66	558.25	2,192.55	2,141.34	51.21	42.816	
6,100.00	5,431.54	5,496.41	5,404.05	50.07	24.65	160.40	-399.72	557.53	2,245.50	2,193.73	51.77	43.374	
6,200.00	5,515.23	5,578.52	5,486.15	51.17	24.85	160.86	-399.87	556.67	2,298.72	2,246.36	52.36	43.904	
6,300.00	5,598.93	5,662.87	5,570.50	52.27	25.06	161.32	-399.91	555.67	2,352.03	2,299.06	52.96	44.409	
6,400.00	5,682.63	5,748.71	5,656.34	53.38	25.28	161.76	-399.97	554.77	2,405.37	2,351.79	53.58	44.893	
6,500.00	5,766.33	5,835.03	5,742.65	54.48	25.50	162.19	-399.97	554.00	2,458.69	2,404.49	54.21	45.359	
6,600.00	5,850.02	5,920.21	5,827.83	55.58	25.71	162.59	-399.89	553.25	2,512.03	2,457.21	54.83	45.819	
6,700.00	5,933.72	6,004.46	5,912.07	56.68	25.93	162.97	-399.66	552.45	2,565.39	2,509.95	55.44	46.274	
6,800.00	6,017.42	6,083.15	5,990.76	57.79	26.13	163.32	-399.43	551.57	2,618.90	2,562.88	56.02	46.752	
6,900.00	6,101.12	6,168.17	6,075.77	58.89	26.35	163.68	-399.13	550.51	2,672.54	2,615.90	56.64	47.185	
7,000.00	6,184.81	6,256.98	6,164.57	59.99	26.58	164.05	-398.64	549.37	2,726.13	2,668.85	57.29	47.586	
7,100.00	6,268.51	6,346.54	6,254.12	61.10	26.81	164.40	-398.05	548.41	2,779.62	2,721.67	57.95	47.969	
7,200.00	6,352.21	6,426.98	6,334.56	62.20	27.02	164.71	-397.55	547.68	2,833.10	2,774.55	58.55	48.390	
7,300.00	6,435.90	6,507.96	6,415.54	63.31	27.23	165.00	-397.10	546.84	2,886.75	2,827.60	59.15	48.800	
7,400.00	6,519.60	6,597.75	6,505.32	64.41	27.47	165.32	-396.71	546.05	2,940.45	2,880.62	59.83	49.149	
7,500.00	6,603.30	6,685.81	6,593.38	65.51	27.71	165.60	-396.36	545.70	2,993.93	2,933.43	60.50	49.490	
7,600.00	6,687.00	6,766.89	6,674.46	66.62	27.94	165.86	-396.20	545.48	3,047.49	2,986.37	61.12	49.858	
7,700.00	6,770.69	6,848.89	6,756.46	67.72	28.17	166.10	-396.28	545.44	3,101.15	3,039.38	61.77	50.204	
7,800.00	6,854.39	6,929.05	6,836.61	68.83	28.42	166.31	-396.78	545.71	3,154.92	3,092.50	62.42	50.543	
7,900.00	6,938.09	7,014.66	6,922.22	69.93	28.68	166.53	-397.59	546.24	3,208.74	3,145.62	63.12	50.835	
7,933.18	6,965.86	7,041.11	6,948.66	70.30	28.77	166.59	-397.87	546.44	3,226.60	3,163.26	63.34	50.941	
7,950.00	6,980.00	7,054.48	6,962.04	70.49	28.81	163.53	-398.02	546.54	3,235.52	3,172.07	63.45	50.993	
8,000.00	7,022.68	7,094.89	7,002.44	71.01	28.94	154.03	-398.54	546.89	3,260.36	3,196.58	63.78	51.121	
8,050.00	7,066.06	7,134.35	7,041.90	71.51	29.06	144.03	-399.13	547.25	3,282.55	3,218.46	64.09	51.218	
8,100.00	7,109.82	7,173.09	7,080.63	71.97	29.18	133.81	-399.75	547.57	3,302.00	3,237.61	64.39	51.282	
8,150.00	7,153.63	7,213.38	7,120.91	72.38	29.31	123.83	-400.45	547.87	3,318.60	3,253.91	64.69	51.301	
8,200.00	7,197.14	7,259.23	7,166.75	72.74	29.46	114.61	-401.26	548.22	3,332.19	3,267.17	65.02	51.249	
8,250.00	7,240.04	7,304.53	7,212.04	73.05	29.60	106.45	-402.05	548.59	3,342.71	3,277.38	65.33	51.165	
8,300.00	7,281.99	7,348.57	7,256.07	73.31	29.74	99.53	-402.80	548.98	3,350.13	3,284.51	65.62	51.053	
8,350.00	7,322.67	7,391.45	7,298.95	73.52	29.88	93.86	-403.52	549.37	3,354.46	3,288.57	65.89	50.912	
8,400.00	7,361.77	7,436.30	7,343.79	73.68	30.03	89.39	-404.24	549.80	3,355.70	3,289.54	66.16	50.724	
8,450.00	7,399.01	7,479.04	7,386.53	73.78	30.16	85.96	-404.86	550.25	3,353.90	3,287.50	66.40	50.513	
8,500.00	7,434.08	7,534.69	7,442.17	73.85	30.34	83.63	-405.51	550.96	3,349.07	3,282.34	66.73	50.189	
8,550.00	7,466.74	7,588.39	7,495.86	73.87	30.52	82.12	-405.90	551.87	3,341.22	3,274.18	67.04	49.839	
8,600.00	7,496.72	7,601.16	7,508.63	73.85	30.55	80.79	-405.98	552.04	3,330.73	3,263.70	67.02	49.695	
8,650.00	7,523.80	7,618.38	7,525.85	73.79	30.61	80.16	-406.08	552.24	3,317.78	3,250.74	67.04	49.491	
8,700.00	7,547.77	7,633.61	7,541.07	73.70	30.66	80.07	-406.18	552.35	3,302.49	3,235.45	67.04	49.263	
8,750.00	7,568.45	7,646.74	7,554.20	73.58	30.70	80.48	-406.26	552.41	3,285.00	3,217.98	67.02	49.012	
8,800.00	7,585.69	7,657.69	7,565.15	73.43	30.73	81.36	-406.33	552.43	3,265.45	3,198.45	67.00	48.736	
8,850.00	7,599.35	7,672.00	7,579.46	73.26	30.78	82.79	-406.42	552.42	3,244.00	3,176.97	67.02	48.402	
8,900.00	7,609.33	7,672.00	7,579.46	73.07	30.78	84.42	-406.42	552.42	3,220.76	3,153.83	66.94	48.117	
8,950.00	7,615.55	7,677.84	7,585.30	72.87	30.79	86.62	-406.46	552.40	3,195.94	3,129.02	66.92	47.758	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	7,679.89	7,587.35	72.65	30.80	89.19	-406.47	552.39	3,169.69	3,102.80	66.90	47.382	
9,006.60	7,618.00	7,679.95	7,587.41	72.62	30.80	89.56	-406.47	552.39	3,166.13	3,099.23	66.90	47.330	
9,100.00	7,618.00	7,680.41	7,587.88	72.22	30.80	89.57	-406.47	552.39	3,116.56	3,049.69	66.87	46.608	
9,200.00	7,618.00	7,680.91	7,588.38	71.80	30.80	89.58	-406.48	552.39	3,065.75	2,998.87	66.87	45.843	
9,300.00	7,618.00	7,681.42	7,588.88	71.41	30.80	89.59	-406.48	552.39	3,017.39	2,950.47	66.93	45.086	
9,400.00	7,618.00	7,681.92	7,589.38	71.04	30.80	89.60	-406.49	552.39	2,971.62	2,904.60	67.02	44.338	
9,500.00	7,618.00	7,682.43	7,589.89	70.68	30.81	89.61	-406.49	552.38	2,928.55	2,861.38	67.17	43.601	
9,600.00	7,618.00	7,682.94	7,590.40	70.35	30.81	89.62	-406.49	552.38	2,888.30	2,820.93	67.36	42.876	
9,700.00	7,618.00	7,683.44	7,590.91	70.04	30.81	89.63	-406.50	552.38	2,850.99	2,783.37	67.61	42.166	
9,800.00	7,618.00	7,683.96	7,591.42	69.75	30.81	89.64	-406.50	552.38	2,816.73	2,748.82	67.92	41.474	
9,900.00	7,618.00	7,684.47	7,591.93	69.47	30.81	89.65	-406.50	552.38	2,785.65	2,717.38	68.27	40.802	
10,000.00	7,618.00	7,684.98	7,592.45	69.22	30.81	89.67	-406.51	552.37	2,757.85	2,689.16	68.68	40.154	
10,100.00	7,618.00	7,685.50	7,592.96	68.99	30.82	89.68	-406.51	552.37	2,733.42	2,664.28	69.14	39.533	
10,200.00	7,618.00	7,686.02	7,593.48	68.78	30.82	89.69	-406.51	552.37	2,712.46	2,642.81	69.65	38.945	
10,300.00	7,618.00	7,686.54	7,594.00	68.59	30.82	89.70	-406.52	552.37	2,695.05	2,624.85	70.20	38.391	
10,400.00	7,618.00	7,687.06	7,594.52	68.42	30.82	89.71	-406.52	552.37	2,681.26	2,610.47	70.79	37.877	
10,500.00	7,618.00	7,687.58	7,595.05	68.28	30.82	89.72	-406.52	552.36	2,671.15	2,599.74	71.41	37.406	
10,600.00	7,618.00	7,688.11	7,595.57	68.16	30.82	89.73	-406.53	552.36	2,664.75	2,592.69	72.06	36.981	
10,700.00	7,618.00	7,688.64	7,596.10	68.06	30.82	89.74	-406.53	552.36	2,662.09	2,589.37	72.72	36.605	
10,720.72	7,618.00	7,688.75	7,596.21	68.04	30.83	89.75	-406.53	552.36	2,662.01	2,589.14	72.87	36.531	
10,800.00	7,618.00	7,689.17	7,596.63	67.99	30.83	89.76	-406.53	552.36	2,663.19	2,589.78	73.41	36.280	
10,900.00	7,618.00	7,689.70	7,597.16	67.95	30.83	89.77	-406.54	552.35	2,668.04	2,593.95	74.10	36.008	
11,000.00	7,618.00	7,690.23	7,597.69	67.95	30.83	89.78	-406.54	552.35	2,676.62	2,601.83	74.79	35.790	
11,100.00	7,618.00	7,690.76	7,598.23	67.97	30.83	89.79	-406.55	552.35	2,688.89	2,613.42	75.47	35.628	
11,200.00	7,618.00	7,691.30	7,598.76	68.04	30.83	89.80	-406.55	552.35	2,704.81	2,628.66	76.15	35.521	
11,300.00	7,618.00	7,691.84	7,599.30	68.15	30.83	89.81	-406.55	552.34	2,724.31	2,647.50	76.81	35.469	
11,400.00	7,618.00	7,692.38	7,599.84	68.30	30.84	89.82	-406.56	552.34	2,747.31	2,669.86	77.45	35.471	
11,500.00	7,618.00	7,692.92	7,600.38	68.50	30.84	89.84	-406.56	552.34	2,773.73	2,695.66	78.07	35.528	
11,600.00	7,618.00	7,693.46	7,600.93	68.75	30.84	89.85	-406.56	552.34	2,803.47	2,724.80	78.67	35.637	
11,700.00	7,618.00	7,694.01	7,601.47	69.06	30.84	89.86	-406.57	552.33	2,836.42	2,757.18	79.24	35.797	
11,800.00	7,618.00	7,694.56	7,602.02	69.44	30.84	89.87	-406.57	552.33	2,872.48	2,792.70	79.78	36.006	
11,900.00	7,618.00	7,695.10	7,602.57	69.88	30.84	89.88	-406.58	552.33	2,911.52	2,831.23	80.29	36.263	
12,000.00	7,618.00	7,695.66	7,603.12	70.39	30.85	89.89	-406.58	552.33	2,953.44	2,872.67	80.77	36.565	
12,100.00	7,618.00	7,696.21	7,603.67	70.97	30.85	89.91	-406.58	552.32	2,998.11	2,916.89	81.22	36.911	
12,200.00	7,618.00	7,696.76	7,604.23	71.63	30.85	89.92	-406.59	552.32	3,045.41	2,963.76	81.65	37.299	
12,300.00	7,618.00	7,697.32	7,604.78	72.35	30.85	89.93	-406.59	552.32	3,095.21	3,013.17	82.04	37.727	
12,400.00	7,618.00	7,697.88	7,605.34	73.15	30.85	89.94	-406.59	552.31	3,147.41	3,065.00	82.41	38.192	
12,500.00	7,618.00	7,698.44	7,605.90	74.01	30.85	89.95	-406.60	552.31	3,201.88	3,119.13	82.75	38.693	
12,600.00	7,618.00	7,699.00	7,606.47	74.93	30.86	89.97	-406.60	552.31	3,258.51	3,175.44	83.07	39.228	
12,700.00	7,618.00	7,699.57	7,607.03	75.91	30.86	89.98	-406.61	552.30	3,317.19	3,233.83	83.36	39.795	
12,800.00	7,618.00	7,700.13	7,607.60	76.95	30.86	89.99	-406.61	552.30	3,377.81	3,294.18	83.62	40.393	
12,900.00	7,618.00	7,700.70	7,608.17	78.04	30.86	90.00	-406.61	552.30	3,440.26	3,356.39	83.87	41.019	
13,000.00	7,618.00	7,701.27	7,608.74	79.16	30.86	90.02	-406.62	552.29	3,504.46	3,420.36	84.10	41.672	
13,100.00	7,618.00	7,701.85	7,609.31	80.33	30.86	90.03	-406.62	552.29	3,570.31	3,486.00	84.30	42.350	
13,200.00	7,618.00	7,702.42	7,609.88	81.54	30.87	90.04	-406.63	552.29	3,637.71	3,553.21	84.50	43.052	
13,300.00	7,618.00	7,703.00	7,610.46	82.78	30.87	90.05	-406.63	552.28	3,706.58	3,621.91	84.67	43.777	
13,400.00	7,618.00	7,703.58	7,611.04	84.05	30.87	90.07	-406.64	552.28	3,776.85	3,692.02	84.83	44.523	
13,500.00	7,618.00	7,704.16	7,611.62	85.35	30.87	90.08	-406.64	552.28	3,848.43	3,763.46	84.97	45.290	
13,600.00	7,618.00	7,704.74	7,612.20	86.67	30.87	90.09	-406.64	552.27	3,921.26	3,836.15	85.11	46.075	
13,700.00	7,618.00	7,705.33	7,612.79	88.02	30.87	90.10	-406.65	552.27	3,995.26	3,910.03	85.23	46.878	
13,800.00	7,618.00	7,705.91	7,613.38	89.38	30.88	90.12	-406.65	552.27	4,070.37	3,985.04	85.34	47.697	
13,900.00	7,618.00	7,706.50	7,613.96	90.77	30.88	90.13	-406.66	552.26	4,146.54	4,061.10	85.44	48.533	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,618.00	7,707.09	7,614.56	92.17	30.88	90.14	-406.66	552.26	4,223.70	4,138.17	85.53	49.383	
14,100.00	7,618.00	7,707.69	7,615.15	93.59	30.88	90.15	-406.67	552.25	4,301.79	4,216.18	85.61	50.248	
14,200.00	7,618.00	7,708.28	7,615.74	95.02	30.88	90.17	-406.67	552.25	4,380.78	4,295.10	85.69	51.125	
14,300.00	7,618.00	7,708.88	7,616.34	96.47	30.88	90.18	-406.67	552.25	4,460.62	4,374.86	85.76	52.015	
14,400.00	7,618.00	7,709.48	7,616.94	97.93	30.89	90.19	-406.68	552.24	4,541.25	4,455.43	85.82	52.917	
14,500.00	7,618.00	7,710.08	7,617.54	99.41	30.89	90.21	-406.68	552.24	4,622.63	4,536.76	85.87	53.830	
14,600.00	7,618.00	7,710.69	7,618.15	100.89	30.89	90.22	-406.69	552.23	4,704.74	4,618.81	85.93	54.753	
14,700.00	7,618.00	7,711.29	7,618.76	102.38	30.89	90.23	-406.69	552.23	4,787.53	4,701.55	85.97	55.686	
14,800.00	7,618.00	7,711.90	7,619.36	103.89	30.89	90.24	-406.70	552.23	4,870.96	4,784.94	86.02	56.629	
14,900.00	7,618.00	7,712.51	7,619.97	105.40	30.90	90.26	-406.70	552.22	4,955.00	4,868.95	86.05	57.580	
15,000.00	7,618.00	7,713.13	7,620.59	106.92	30.90	90.27	-406.71	552.22	5,039.63	4,953.54	86.09	58.539	
15,100.00	7,618.00	7,713.74	7,621.20	108.45	30.90	90.28	-406.71	552.21	5,124.81	5,038.69	86.12	59.506	
15,200.00	7,618.00	7,714.36	7,621.82	109.99	30.90	90.30	-406.71	552.21	5,210.52	5,124.37	86.15	60.480	
15,300.00	7,618.00	7,714.98	7,622.44	111.54	30.90	90.31	-406.72	552.20	5,296.73	5,210.55	86.18	61.462	
15,400.00	7,618.00	7,715.60	7,623.06	113.09	30.90	90.32	-406.72	552.20	5,383.41	5,297.21	86.20	62.450	
15,500.00	7,618.00	7,716.23	7,623.69	114.65	30.91	90.34	-406.73	552.19	5,470.55	5,384.33	86.23	63.444	
15,600.00	7,618.00	7,716.85	7,624.31	116.21	30.91	90.35	-406.73	552.19	5,558.13	5,471.88	86.25	64.444	
15,700.00	7,618.00	7,717.48	7,624.94	117.78	30.91	90.36	-406.74	552.18	5,646.11	5,559.85	86.27	65.449	
15,800.00	7,618.00	7,718.11	7,625.57	119.36	30.91	90.38	-406.74	552.18	5,734.49	5,648.21	86.29	66.459	
15,900.00	7,618.00	7,718.75	7,626.21	120.94	30.91	90.39	-406.75	552.17	5,823.25	5,736.95	86.30	67.475	
16,000.00	7,618.00	7,719.38	7,626.84	122.53	30.92	90.41	-406.75	552.17	5,912.36	5,826.04	86.32	68.495	
16,100.00	7,618.00	7,720.02	7,627.48	124.12	30.92	90.42	-406.76	552.16	6,001.82	5,915.49	86.33	69.519	
16,200.00	7,618.00	7,720.66	7,628.12	125.72	30.92	90.43	-406.76	552.16	6,091.61	6,005.26	86.35	70.547	
16,300.00	7,618.00	7,721.31	7,628.77	127.32	30.92	90.45	-406.77	552.15	6,181.71	6,095.34	86.36	71.579	
16,400.00	7,618.00	7,721.95	7,629.41	128.93	30.92	90.46	-406.77	552.15	6,272.10	6,185.73	86.38	72.615	
16,500.00	7,618.00	7,722.60	7,630.06	130.54	30.93	90.47	-406.78	552.14	6,362.79	6,276.40	86.39	73.654	
16,600.00	7,618.00	7,723.25	7,630.71	132.15	30.93	90.49	-406.78	552.14	6,453.75	6,367.35	86.40	74.696	
16,700.00	7,618.00	7,723.90	7,631.36	133.77	30.93	90.50	-406.79	552.13	6,544.98	6,458.56	86.41	75.741	
16,800.00	7,618.00	7,724.56	7,632.02	135.39	30.93	90.52	-406.79	552.13	6,636.45	6,550.03	86.42	76.789	
16,900.00	7,618.00	7,725.22	7,632.68	137.01	30.93	90.53	-406.80	552.12	6,728.17	6,641.74	86.44	77.839	
17,000.00	7,618.00	7,725.88	7,633.34	138.64	30.94	90.55	-406.80	552.12	6,820.13	6,733.68	86.45	78.892	
17,100.00	7,618.00	7,726.54	7,634.00	140.27	30.94	90.56	-406.81	552.11	6,912.30	6,825.84	86.46	79.948	
17,200.00	7,618.00	7,727.21	7,634.67	141.91	30.94	90.57	-406.81	552.10	7,004.69	6,918.22	86.47	81.005	
17,300.00	7,618.00	7,727.87	7,635.33	143.55	30.94	90.59	-406.82	552.10	7,097.29	7,010.81	86.48	82.064	
17,400.00	7,618.00	7,728.54	7,636.01	145.19	30.94	90.60	-406.82	552.09	7,190.09	7,103.59	86.50	83.125	
17,500.00	7,618.00	7,729.22	7,636.68	146.83	30.95	90.62	-406.83	552.09	7,283.07	7,196.56	86.51	84.188	
17,600.00	7,618.00	7,729.89	7,637.35	148.48	30.95	90.63	-406.83	552.08	7,376.24	7,289.72	86.52	85.252	
17,700.00	7,618.00	7,730.57	7,638.03	150.13	30.95	90.65	-406.84	552.07	7,469.59	7,383.05	86.54	86.318	
17,800.00	7,618.00	7,731.25	7,638.71	151.78	30.95	90.66	-406.84	552.07	7,563.10	7,476.55	86.55	87.385	
17,900.00	7,618.00	7,731.94	7,639.40	153.43	30.95	90.68	-406.85	552.06	7,656.78	7,570.22	86.56	88.453	
18,000.00	7,618.00	7,732.62	7,640.08	155.09	30.96	90.69	-406.85	552.05	7,750.62	7,664.04	86.58	89.522	
18,100.00	7,618.00	7,733.31	7,640.77	156.75	30.96	90.71	-406.86	552.05	7,844.61	7,758.02	86.59	90.593	
18,200.00	7,618.00	7,734.00	7,641.46	158.41	30.96	90.72	-406.86	552.04	7,938.75	7,852.14	86.61	91.664	
18,300.00	7,618.00	7,734.70	7,642.16	160.07	30.96	90.74	-406.87	552.03	8,033.02	7,946.40	86.62	92.736	
18,400.00	7,618.00	7,735.39	7,642.85	161.74	30.96	90.75	-406.87	552.03	8,127.44	8,040.80	86.64	93.808	
18,500.00	7,618.00	7,736.09	7,643.55	163.41	30.97	90.77	-406.88	552.02	8,221.99	8,135.33	86.66	94.881	
18,600.00	7,618.00	7,736.80	7,644.26	165.08	30.97	90.78	-406.89	552.01	8,316.66	8,229.99	86.67	95.955	
18,700.00	7,618.00	7,737.50	7,644.96	166.75	30.97	90.80	-406.89	552.01	8,411.46	8,324.77	86.69	97.029	
18,711.30	7,618.00	7,737.58	7,645.04	166.94	30.97	90.80	-406.89	552.01	8,422.18	8,335.49	86.69	97.150	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-27.92	218.21	-115.64	247.16				
100.00	100.00	90.82	90.82	0.13	0.15	-28.04	217.84	-116.01	246.81	246.52	0.28	872.706	
160.91	160.91	152.28	152.27	0.35	0.25	-28.25	217.17	-116.68	246.54	245.94	0.60	409.949	CC
200.00	200.00	187.98	187.97	0.49	0.40	-28.30	217.20	-116.96	246.70	245.80	0.89	276.248	ES
300.00	300.00	279.45	279.41	0.85	0.72	-28.11	219.46	-117.21	249.03	247.45	1.58	157.742	
400.00	400.00	370.44	370.17	1.21	1.06	-27.47	225.73	-117.36	255.19	252.92	2.26	112.735	
500.00	500.00	462.08	461.30	1.57	1.39	-26.46	235.39	-117.13	264.48	261.53	2.95	89.540	
600.00	600.00	552.08	550.45	1.93	1.75	-25.37	247.70	-117.48	276.98	273.34	3.64	76.086	
700.00	700.00	640.30	637.31	2.29	2.13	-24.16	263.07	-118.02	293.11	288.79	4.32	67.854	
800.00	800.00	727.35	722.39	2.64	2.53	-22.93	281.39	-119.02	312.92	307.92	4.99	62.685	
900.00	900.00	812.53	804.95	3.00	2.95	-21.70	302.33	-120.31	336.32	330.67	5.65	59.501	
1,000.00	999.98	898.70	887.58	3.36	3.41	-77.35	326.71	-121.79	363.04	356.73	6.31	57.502	
1,100.00	1,099.84	994.22	978.83	3.71	3.95	-76.34	354.90	-123.80	390.41	383.39	7.02	55.591	
1,200.00	1,199.45	1,089.47	1,069.89	4.07	4.49	-75.88	382.78	-125.71	416.74	408.98	7.76	53.690	
1,300.00	1,298.70	1,180.18	1,156.21	4.44	5.03	-75.78	410.59	-127.61	443.59	435.11	8.48	52.293	
1,400.00	1,397.47	1,277.81	1,249.07	4.82	5.61	-76.13	440.62	-129.89	469.87	460.60	9.28	50.650	
1,500.00	1,495.62	1,372.26	1,338.92	5.22	6.18	-76.76	469.64	-131.99	495.43	485.35	10.08	49.152	
1,600.00	1,593.06	1,463.02	1,424.99	5.65	6.74	-77.54	498.38	-133.82	521.25	510.35	10.90	47.843	
1,700.00	1,689.64	1,553.71	1,510.66	6.11	7.31	-78.46	528.11	-135.35	547.56	535.81	11.76	46.571	
1,800.00	1,785.27	1,645.25	1,596.90	6.61	7.90	-79.58	558.76	-137.18	574.40	561.72	12.68	45.292	
1,900.00	1,879.82	1,739.84	1,686.01	7.15	8.51	-80.97	590.41	-139.62	601.43	587.74	13.69	43.922	
2,000.00	1,973.17	1,835.51	1,776.31	7.73	9.12	-82.61	621.83	-142.73	628.45	613.67	14.78	42.522	
2,100.00	2,065.21	1,932.69	1,868.29	8.37	9.73	-84.50	652.96	-146.50	655.62	639.67	15.95	41.110	
2,200.00	2,155.84	2,030.30	1,961.14	9.07	10.34	-86.60	682.75	-150.79	682.66	665.47	17.19	39.712	
2,300.00	2,244.94	2,125.19	2,051.68	9.82	10.91	-88.77	710.77	-155.53	710.48	692.00	18.48	38.444	
2,400.00	2,332.39	2,224.68	2,146.86	10.64	11.50	-91.12	739.44	-159.63	738.78	718.90	19.88	37.160	
2,500.00	2,418.11	2,321.98	2,240.20	11.53	12.07	-93.42	766.75	-162.58	767.64	746.32	21.33	35.991	
2,558.91	2,467.74	2,378.33	2,294.38	12.08	12.39	-94.76	782.20	-164.05	785.15	762.94	22.20	35.364	
2,600.00	2,502.13	2,419.08	2,333.61	12.47	12.63	-95.99	793.18	-164.94	797.53	774.70	22.83	34.936	
2,700.00	2,585.83	2,511.17	2,422.40	13.45	13.15	-98.62	817.55	-166.47	828.23	803.93	24.29	34.091	
2,800.00	2,669.53	2,599.33	2,507.41	14.44	13.64	-100.98	840.89	-167.85	860.43	834.72	25.72	33.456	
2,900.00	2,753.22	2,688.97	2,593.88	15.46	14.14	-103.23	864.46	-169.20	893.91	866.77	27.14	32.936	
3,000.00	2,836.92	2,785.73	2,687.35	16.48	14.68	-105.51	889.42	-170.55	928.32	899.71	28.61	32.449	
3,100.00	2,920.62	2,881.56	2,779.88	17.52	15.21	-107.55	914.33	-170.24	962.64	932.58	30.06	32.028	
3,200.00	3,004.32	2,966.40	2,861.81	18.56	15.68	-109.25	936.39	-169.98	997.96	966.57	31.39	31.791	
3,300.00	3,088.01	3,050.40	2,942.98	19.61	16.14	-110.85	958.01	-170.33	1,034.59	1,001.89	32.70	31.640	
3,400.00	3,171.71	3,134.22	3,023.65	20.67	16.62	-112.28	980.73	-170.31	1,072.25	1,038.25	34.00	31.540	
3,500.00	3,255.41	3,209.98	3,096.16	21.73	17.07	-113.44	1,002.70	-170.32	1,111.38	1,076.16	35.21	31.561	
3,600.00	3,339.10	3,320.46	3,201.69	22.80	17.73	-114.96	1,035.39	-169.52	1,150.67	1,113.88	36.79	31.278	
3,700.00	3,422.80	3,398.41	3,276.16	23.87	18.19	-115.96	1,058.39	-168.83	1,190.20	1,152.18	38.02	31.306	
3,800.00	3,506.50	3,506.12	3,378.86	24.94	18.84	-117.20	1,090.81	-166.93	1,229.66	1,190.11	39.56	31.086	SF
3,900.00	3,590.20	3,584.00	3,453.21	26.02	19.31	-118.06	1,113.90	-165.06	1,268.83	1,228.05	40.78	31.117	
4,000.00	3,673.89	3,650.72	3,516.98	27.10	19.71	-118.78	1,133.52	-164.42	1,309.50	1,267.65	41.85	31.292	
4,100.00	3,757.59	3,729.63	3,592.41	28.18	20.18	-119.62	1,156.66	-165.58	1,352.29	1,309.26	43.03	31.430	
4,200.00	3,841.29	3,822.84	3,682.05	29.26	20.71	-120.65	1,182.15	-167.30	1,395.11	1,350.78	44.33	31.471	
4,300.00	3,924.99	3,917.09	3,772.82	30.35	21.25	-121.64	1,207.48	-168.92	1,438.04	1,392.41	45.63	31.514	
4,400.00	4,008.68	4,010.17	3,862.28	31.44	21.79	-122.53	1,233.14	-169.76	1,480.76	1,433.84	46.92	31.558	
4,500.00	4,092.38	4,112.22	3,960.50	32.52	22.37	-123.46	1,260.88	-170.43	1,523.46	1,475.16	48.30	31.543	
4,600.00	4,176.08	4,207.78	4,052.61	33.62	22.91	-124.29	1,286.27	-170.19	1,565.44	1,515.84	49.60	31.563	
4,700.00	4,259.77	4,298.69	4,139.87	34.71	23.43	-124.98	1,311.77	-169.51	1,607.60	1,556.75	50.86	31.609	
4,800.00	4,343.47	4,379.16	4,217.11	35.80	23.90	-125.57	1,334.34	-168.89	1,649.95	1,597.94	52.00	31.727	
4,900.00	4,427.17	4,449.39	4,284.55	36.89	24.31	-126.07	1,353.92	-169.06	1,693.29	1,640.27	53.02	31.936	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,510.87	4,515.93	4,348.55	37.99	24.69	-126.54	1,372.12	-170.15	1,737.86	1,683.89	53.97	32.198	
5,100.00	4,594.56	4,640.38	4,468.14	39.08	25.41	-127.37	1,406.50	-171.62	1,782.28	1,726.69	55.59	32.060	
5,200.00	4,678.26	4,742.05	4,565.41	40.18	26.01	-127.94	1,436.06	-170.77	1,825.37	1,768.40	56.98	32.037	
5,300.00	4,761.96	4,828.34	4,647.85	41.28	26.53	-128.39	1,461.56	-169.95	1,868.59	1,810.40	58.19	32.112	
5,400.00	4,845.66	4,920.30	4,736.16	42.37	27.06	-128.90	1,487.15	-169.28	1,911.76	1,852.32	59.44	32.164	
5,500.00	4,929.35	4,999.93	4,812.99	43.47	27.51	-129.36	1,508.09	-169.15	1,955.25	1,894.74	60.51	32.310	
5,600.00	5,013.05	5,074.79	4,885.44	44.57	27.91	-129.81	1,526.94	-169.67	1,999.40	1,937.88	61.51	32.503	
5,700.00	5,096.75	5,152.49	4,960.78	45.67	28.33	-130.29	1,545.88	-170.79	2,044.21	1,981.69	62.52	32.696	
5,800.00	5,180.45	5,241.05	5,046.89	46.77	28.79	-130.84	1,566.49	-172.53	2,089.43	2,025.81	63.62	32.843	
5,900.00	5,264.14	5,343.35	5,147.12	47.87	29.28	-131.55	1,586.81	-174.75	2,134.47	2,069.68	64.79	32.947	
6,000.00	5,347.84	5,445.68	5,248.08	48.97	29.72	-132.34	1,603.33	-176.79	2,179.03	2,113.16	65.86	33.084	
6,100.00	5,431.54	5,539.02	5,340.65	50.07	30.08	-133.12	1,615.18	-178.64	2,223.39	2,156.61	66.78	33.294	
6,200.00	5,515.23	5,627.95	5,429.11	51.17	30.39	-133.90	1,624.05	-180.55	2,267.87	2,200.27	67.60	33.547	
6,300.00	5,598.93	5,709.42	5,510.31	52.27	30.65	-134.63	1,630.46	-182.50	2,312.67	2,244.35	68.32	33.850	
6,400.00	5,682.63	5,815.83	5,616.55	53.38	30.96	-135.63	1,635.62	-185.20	2,357.71	2,288.58	69.13	34.104	
6,500.00	5,766.33	5,947.30	5,747.97	54.48	31.30	-136.89	1,638.94	-186.46	2,401.54	2,331.53	70.02	34.300	
6,600.00	5,850.02	6,026.23	5,826.88	55.58	31.49	-137.62	1,640.43	-186.67	2,445.24	2,374.64	70.60	34.635	
6,700.00	5,933.72	6,096.50	5,897.15	56.68	31.66	-138.28	1,641.08	-187.18	2,489.69	2,418.58	71.11	35.011	
6,800.00	6,017.42	6,174.15	5,974.79	57.79	31.84	-139.00	1,641.09	-188.13	2,534.91	2,463.27	71.64	35.385	
6,900.00	6,101.12	6,263.19	6,063.83	58.89	32.04	-139.78	1,641.50	-189.21	2,580.54	2,508.32	72.23	35.729	
7,000.00	6,184.81	6,344.67	6,145.30	59.99	32.24	-140.48	1,641.99	-190.00	2,626.35	2,553.58	72.77	36.089	
7,100.00	6,268.51	6,426.37	6,226.99	61.10	32.44	-141.16	1,642.63	-191.02	2,672.74	2,599.42	73.33	36.450	
7,200.00	6,352.21	6,518.65	6,319.26	62.20	32.66	-141.89	1,643.55	-191.88	2,719.20	2,645.27	73.94	36.778	
7,300.00	6,435.90	6,609.25	6,409.86	63.31	32.88	-142.60	1,643.80	-192.62	2,765.89	2,691.37	74.52	37.115	
7,400.00	6,519.60	6,712.87	6,513.47	64.41	33.14	-143.39	1,644.16	-192.75	2,812.28	2,737.10	75.18	37.408	
7,500.00	6,603.30	6,793.79	6,594.39	65.51	33.34	-143.97	1,645.01	-192.63	2,858.74	2,783.01	75.73	37.750	
7,600.00	6,687.00	6,862.23	6,662.82	66.62	33.52	-144.44	1,646.12	-192.82	2,905.80	2,829.58	76.22	38.126	
7,700.00	6,770.69	6,938.87	6,739.45	67.72	33.73	-144.94	1,647.61	-193.34	2,953.43	2,876.68	76.75	38.479	
7,800.00	6,854.39	7,034.83	6,835.38	68.83	33.99	-145.55	1,649.73	-193.99	3,001.29	2,923.87	77.42	38.768	
7,900.00	6,938.09	7,119.32	6,919.85	69.93	34.22	-146.08	1,651.62	-194.31	3,049.10	2,971.09	78.01	39.086	
7,933.18	6,965.86	7,146.45	6,946.97	70.30	34.30	-146.24	1,652.15	-194.42	3,065.02	2,986.82	78.20	39.195	
7,950.00	6,980.00	7,159.95	6,960.47	70.49	34.34	-149.56	1,652.40	-194.47	3,073.12	2,994.82	78.29	39.251	
8,000.00	7,022.68	7,200.84	7,001.36	71.01	34.45	-160.08	1,653.16	-194.66	3,097.40	3,018.82	78.57	39.420	
8,050.00	7,066.06	7,243.76	7,044.27	71.51	34.57	-171.41	1,653.96	-194.88	3,121.80	3,042.94	78.86	39.586	
8,100.00	7,109.82	7,293.88	7,094.38	71.97	34.71	176.83	1,655.11	-195.10	3,146.06	3,066.87	79.19	39.728	
8,150.00	7,153.63	7,355.81	7,156.27	72.38	34.89	165.21	1,657.02	-195.22	3,169.91	3,090.31	79.59	39.827	
8,200.00	7,197.14	8,200.00	7,209.68	72.74	37.40	154.22	1,659.22	-194.84	3,192.83	3,110.53	82.30	38.795	
8,250.00	7,240.04	7,475.65	7,276.02	73.05	35.23	144.33	1,661.31	-194.11	3,215.02	3,134.67	80.35	40.014	
8,300.00	7,281.99	7,517.93	7,318.30	73.31	35.34	135.48	1,661.37	-193.51	3,236.49	3,155.91	80.58	40.163	
8,350.00	7,322.67	7,547.00	7,347.36	73.52	35.41	127.71	1,660.97	-193.13	3,257.23	3,176.50	80.72	40.350	
8,400.00	7,361.77	7,575.93	7,376.28	73.68	35.47	121.04	1,660.34	-192.84	3,277.18	3,196.32	80.86	40.528	
8,450.00	7,399.01	7,609.00	7,409.34	73.78	35.55	115.41	1,659.35	-192.61	3,296.27	3,215.25	81.02	40.684	
8,500.00	7,434.08	7,678.57	7,478.87	73.85	35.70	111.09	1,657.07	-191.83	3,314.17	3,232.82	81.35	40.738	
8,550.00	7,466.74	7,722.64	7,522.91	73.87	35.80	107.26	1,655.76	-190.94	3,330.61	3,249.04	81.57	40.830	
8,600.00	7,496.72	7,748.41	7,548.67	73.85	35.86	103.86	1,655.04	-190.44	3,345.96	3,264.24	81.72	40.945	
8,650.00	7,523.80	7,771.73	7,571.97	73.79	35.91	100.97	1,654.41	-190.02	3,360.22	3,278.35	81.86	41.047	
8,700.00	7,547.77	7,792.44	7,592.67	73.70	35.96	98.54	1,653.87	-189.68	3,373.34	3,291.33	82.01	41.134	
8,750.00	7,568.45	7,817.00	7,617.22	73.58	36.01	96.59	1,653.24	-189.29	3,385.29	3,303.10	82.19	41.189	
8,800.00	7,585.69	7,839.73	7,639.94	73.43	36.06	95.02	1,652.64	-188.90	3,396.02	3,313.64	82.37	41.227	
8,850.00	7,599.35	7,858.18	7,658.38	73.26	36.11	93.74	1,652.15	-188.56	3,405.52	3,322.96	82.56	41.251	
8,900.00	7,609.33	7,872.20	7,672.39	73.07	36.14	92.72	1,651.76	-188.30	3,413.79	3,331.06	82.74	41.262	
8,950.00	7,615.55	7,881.62	7,681.81	72.87	36.16	91.94	1,651.50	-188.11	3,420.82	3,337.91	82.91	41.260	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	7,886.36	7,686.54	72.65	36.17	91.38	1,651.36	-188.02	3,426.60	3,343.53	83.08	41.246	
9,006.60	7,618.00	7,886.63	7,686.82	72.62	36.17	91.32	1,651.36	-188.01	3,427.27	3,344.17	83.10	41.243	
9,100.00	7,618.00	7,889.89	7,690.07	72.22	36.18	91.38	1,651.26	-187.95	3,437.83	3,354.42	83.41	41.217	
9,200.00	7,618.00	7,896.56	7,696.74	71.80	36.19	91.49	1,651.07	-187.81	3,451.89	3,368.14	83.75	41.217	
9,300.00	7,618.00	7,903.71	7,703.89	71.41	36.21	91.61	1,650.86	-187.65	3,468.78	3,384.69	84.09	41.252	
9,400.00	7,618.00	7,911.28	7,711.45	71.04	36.23	91.74	1,650.63	-187.48	3,488.44	3,404.02	84.42	41.324	
9,500.00	7,618.00	7,919.31	7,719.47	70.68	36.25	91.87	1,650.38	-187.28	3,510.84	3,426.10	84.74	41.431	
9,600.00	7,618.00	7,927.83	7,727.98	70.35	36.26	92.02	1,650.11	-187.06	3,535.91	3,450.86	85.05	41.574	
9,700.00	7,618.00	7,936.89	7,737.04	70.04	36.28	92.17	1,649.80	-186.82	3,563.61	3,478.26	85.35	41.751	
9,800.00	7,618.00	9,800.00	7,832.64	69.75	40.29	93.78	1,645.80	-182.92	3,593.61	3,503.60	90.01	39.924	
9,900.00	7,618.00	9,900.00	7,837.30	69.47	40.51	93.85	1,645.58	-182.68	3,626.27	3,535.76	90.51	40.066	
10,000.00	7,618.00	8,122.52	7,922.21	69.22	36.68	95.28	1,641.15	-177.62	3,661.36	3,574.64	86.71	42.223	
10,100.00	7,618.00	8,131.96	7,931.61	68.99	36.70	95.44	1,640.60	-176.96	3,698.70	3,611.75	86.95	42.538	
10,200.00	7,618.00	8,141.65	7,941.26	68.78	36.72	95.60	1,640.03	-176.28	3,738.33	3,651.16	87.17	42.885	
10,300.00	7,618.00	8,151.58	7,951.14	68.59	36.74	95.77	1,639.43	-175.57	3,780.17	3,692.80	87.38	43.263	
10,400.00	7,618.00	8,161.76	7,961.28	68.42	36.76	95.94	1,638.81	-174.84	3,824.16	3,736.59	87.57	43.670	
10,500.00	7,618.00	8,172.21	7,971.69	68.28	36.79	96.11	1,638.17	-174.08	3,870.22	3,782.47	87.75	44.105	
10,600.00	7,618.00	8,182.94	7,982.37	68.16	36.81	96.29	1,637.50	-173.29	3,918.27	3,830.35	87.92	44.568	
10,700.00	7,618.00	10,700.00	7,963.21	68.06	42.03	95.97	1,638.67	-174.67	3,968.27	3,874.26	94.01	42.213	
10,800.00	7,618.00	10,800.00	7,968.99	67.99	42.24	96.07	1,638.33	-174.27	4,020.14	3,925.74	94.40	42.588	
10,900.00	7,618.00	10,900.00	7,974.77	67.95	42.45	96.17	1,637.99	-173.87	4,073.80	3,979.02	94.78	42.982	
11,000.00	7,618.00	8,171.00	7,970.48	67.95	36.78	96.09	1,638.24	-174.17	4,129.18	4,040.86	88.32	46.752	
11,100.00	7,618.00	8,171.00	7,970.48	67.97	36.78	96.09	1,638.24	-174.17	4,186.22	4,097.82	88.40	47.354	
11,200.00	7,618.00	8,171.00	7,970.48	68.04	36.78	96.09	1,638.24	-174.17	4,244.85	4,156.38	88.48	47.978	
11,300.00	7,618.00	8,171.00	7,970.48	68.15	36.78	96.09	1,638.24	-174.17	4,305.01	4,216.47	88.54	48.622	
11,400.00	7,618.00	8,171.00	7,970.48	68.30	36.78	96.09	1,638.24	-174.17	4,366.63	4,278.03	88.59	49.288	
11,500.00	7,618.00	8,171.00	7,970.48	68.50	36.78	96.09	1,638.24	-174.17	4,429.64	4,341.00	88.64	49.972	
11,600.00	7,618.00	8,171.00	7,970.48	68.75	36.78	96.09	1,638.24	-174.17	4,494.00	4,405.32	88.68	50.675	
11,700.00	7,618.00	8,171.00	7,970.48	69.06	36.78	96.09	1,638.24	-174.17	4,559.65	4,470.93	88.72	51.395	
11,800.00	7,618.00	8,171.00	7,970.48	69.44	36.78	96.09	1,638.24	-174.17	4,626.52	4,537.77	88.75	52.132	
11,900.00	7,618.00	8,171.00	7,970.48	69.88	36.78	96.09	1,638.24	-174.17	4,694.57	4,605.80	88.77	52.885	
12,000.00	7,618.00	8,171.00	7,970.48	70.39	36.78	96.09	1,638.24	-174.17	4,763.75	4,674.96	88.79	53.654	
12,100.00	7,618.00	8,171.00	7,970.48	70.97	36.78	96.09	1,638.24	-174.17	4,834.01	4,745.21	88.80	54.437	
12,200.00	7,618.00	8,171.00	7,970.48	71.63	36.78	96.09	1,638.24	-174.17	4,905.30	4,816.49	88.81	55.234	
12,300.00	7,618.00	8,171.00	7,970.48	72.35	36.78	96.09	1,638.24	-174.17	4,977.58	4,888.76	88.82	56.044	
12,400.00	7,618.00	8,171.00	7,970.48	73.15	36.78	96.09	1,638.24	-174.17	5,050.80	4,961.98	88.82	56.867	
12,500.00	7,618.00	8,171.00	7,970.48	74.01	36.78	96.09	1,638.24	-174.17	5,124.93	5,036.11	88.82	57.702	
12,600.00	7,618.00	8,171.00	7,970.48	74.93	36.78	96.09	1,638.24	-174.17	5,199.93	5,111.11	88.81	58.548	
12,700.00	7,618.00	8,171.00	7,970.48	75.91	36.78	96.09	1,638.24	-174.17	5,275.75	5,186.94	88.81	59.406	
12,800.00	7,618.00	8,171.00	7,970.48	76.95	36.78	96.09	1,638.24	-174.17	5,352.37	5,263.57	88.80	60.273	
12,900.00	7,618.00	8,171.00	7,970.48	78.04	36.78	96.09	1,638.24	-174.17	5,429.75	5,340.96	88.79	61.151	
13,000.00	7,618.00	8,171.00	7,970.48	79.16	36.78	96.09	1,638.24	-174.17	5,507.86	5,419.08	88.78	62.038	
13,100.00	7,618.00	8,171.00	7,970.48	80.33	36.78	96.09	1,638.24	-174.17	5,586.66	5,497.89	88.77	62.934	
13,200.00	7,618.00	8,171.00	7,970.48	81.54	36.78	96.09	1,638.24	-174.17	5,666.14	5,577.38	88.76	63.839	
13,300.00	7,618.00	8,171.00	7,970.48	82.78	36.78	96.09	1,638.24	-174.17	5,746.25	5,657.51	88.74	64.752	
13,400.00	7,618.00	8,206.95	8,006.31	84.05	36.86	96.70	1,636.34	-171.84	5,826.43	5,737.62	88.81	65.607	
13,500.00	7,618.00	8,207.82	8,007.17	85.35	36.87	96.71	1,636.31	-171.79	5,907.73	5,818.93	88.79	66.533	
13,600.00	7,618.00	8,208.66	8,008.01	86.67	36.87	96.72	1,636.27	-171.74	5,989.59	5,900.81	88.78	67.466	
13,700.00	7,618.00	8,209.49	8,008.84	88.02	36.87	96.74	1,636.24	-171.70	6,071.99	5,983.23	88.76	68.406	
13,800.00	7,618.00	8,210.31	8,009.65	89.38	36.87	96.75	1,636.20	-171.65	6,154.92	6,066.17	88.75	69.352	
13,900.00	7,618.00	8,211.11	8,010.45	90.77	36.87	96.76	1,636.17	-171.61	6,238.34	6,149.61	88.73	70.305	
14,000.00	7,618.00	8,211.89	8,011.23	92.17	36.88	96.78	1,636.13	-171.56	6,322.25	6,233.53	88.72	71.263	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,618.00	8,212.66	8,012.00	93.59	36.88	96.79	1,636.10	-171.52	6,406.61	6,317.91	88.70	72.226	
14,200.00	7,618.00	8,213.41	8,012.75	95.02	36.88	96.80	1,636.07	-171.48	6,491.42	6,402.74	88.69	73.195	
14,300.00	7,618.00	8,214.15	8,013.49	96.47	36.88	96.82	1,636.04	-171.44	6,576.66	6,487.99	88.67	74.169	
14,400.00	7,618.00	8,214.88	8,014.21	97.93	36.88	96.83	1,636.01	-171.40	6,662.31	6,573.65	88.66	75.147	
14,500.00	7,618.00	8,215.59	8,014.92	99.41	36.88	96.84	1,635.99	-171.37	6,748.35	6,659.71	88.64	76.130	
14,600.00	7,618.00	8,216.29	8,015.62	100.89	36.89	96.85	1,635.96	-171.33	6,834.77	6,746.14	88.63	77.117	
14,700.00	7,618.00	8,216.98	8,016.31	102.38	36.89	96.86	1,635.93	-171.29	6,921.56	6,832.94	88.61	78.108	
14,800.00	7,618.00	8,217.66	8,016.98	103.89	36.89	96.87	1,635.91	-171.26	7,008.69	6,920.09	88.60	79.104	
14,900.00	7,618.00	8,218.32	8,017.65	105.40	36.89	96.89	1,635.88	-171.23	7,096.17	7,007.58	88.59	80.102	
15,000.00	7,618.00	8,218.97	8,018.30	106.92	36.89	96.90	1,635.86	-171.19	7,183.97	7,095.40	88.58	81.105	
15,100.00	7,618.00	8,219.61	8,018.94	108.45	36.89	96.91	1,635.83	-171.16	7,272.09	7,183.53	88.57	82.110	
15,200.00	7,618.00	8,220.24	8,019.57	109.99	36.89	96.92	1,635.81	-171.13	7,360.51	7,271.96	88.55	83.119	
15,300.00	7,618.00	8,220.86	8,020.18	111.54	36.90	96.93	1,635.79	-171.10	7,449.23	7,360.68	88.54	84.130	
15,400.00	7,618.00	8,221.47	8,020.79	113.09	36.90	96.94	1,635.76	-171.07	7,538.22	7,449.69	88.53	85.145	
15,500.00	7,618.00	8,222.07	8,021.39	114.65	36.90	96.95	1,635.74	-171.04	7,627.49	7,538.97	88.53	86.162	
15,600.00	7,618.00	8,222.66	8,021.98	116.21	36.90	96.96	1,635.72	-171.01	7,717.02	7,628.51	88.52	87.181	
15,700.00	7,618.00	8,223.24	8,022.56	117.78	36.90	96.97	1,635.70	-170.98	7,806.81	7,718.30	88.51	88.203	
15,800.00	7,618.00	8,223.81	8,023.13	119.36	36.90	96.98	1,635.68	-170.95	7,896.84	7,808.34	88.50	89.227	
15,900.00	7,618.00	8,224.37	8,023.69	120.94	36.90	96.99	1,635.66	-170.93	7,987.11	7,898.61	88.50	90.253	
16,000.00	7,618.00	8,224.92	8,024.24	122.53	36.91	97.00	1,635.64	-170.90	8,077.60	7,989.11	88.49	91.281	
16,100.00	7,618.00	8,225.47	8,024.78	124.12	36.91	97.00	1,635.62	-170.87	8,168.32	8,079.84	88.49	92.311	
16,200.00	7,618.00	8,226.00	8,025.31	125.72	36.91	97.01	1,635.60	-170.85	8,259.25	8,170.77	88.48	93.343	
16,300.00	7,618.00	8,264.00	8,063.27	127.32	36.99	97.65	1,634.67	-169.38	8,350.94	8,262.38	88.55	94.304	
16,400.00	7,618.00	8,264.00	8,063.27	128.93	36.99	97.65	1,634.67	-169.38	8,442.26	8,353.71	88.55	95.339	
16,500.00	7,618.00	8,264.00	8,063.27	130.54	36.99	97.65	1,634.67	-169.38	8,533.78	8,445.23	88.55	96.375	
16,600.00	7,618.00	8,264.00	8,063.27	132.15	36.99	97.65	1,634.67	-169.38	8,625.48	8,536.94	88.55	97.413	
16,700.00	7,618.00	8,264.00	8,063.27	133.77	36.99	97.65	1,634.67	-169.38	8,717.37	8,628.83	88.54	98.452	
16,800.00	7,618.00	8,264.00	8,063.27	135.39	36.99	97.65	1,634.67	-169.38	8,809.44	8,720.89	88.54	99.492	
16,900.00	7,618.00	8,264.00	8,063.27	137.01	36.99	97.65	1,634.67	-169.38	8,901.67	8,813.13	88.55	100.533	
17,000.00	7,618.00	8,264.00	8,063.27	138.64	36.99	97.65	1,634.67	-169.38	8,994.07	8,905.53	88.55	101.574	
17,100.00	7,618.00	8,264.00	8,063.27	140.27	36.99	97.65	1,634.67	-169.38	9,086.64	8,998.09	88.55	102.617	
17,200.00	7,618.00	8,264.00	8,063.27	141.91	36.99	97.65	1,634.67	-169.38	9,179.36	9,090.80	88.55	103.661	
17,300.00	7,618.00	8,264.00	8,063.27	143.55	36.99	97.65	1,634.67	-169.38	9,272.23	9,183.67	88.56	104.705	
17,400.00	7,618.00	8,264.00	8,063.27	145.19	36.99	97.65	1,634.67	-169.38	9,365.24	9,276.68	88.56	105.750	
17,500.00	7,618.00	8,264.00	8,063.27	146.83	36.99	97.65	1,634.67	-169.38	9,458.40	9,369.84	88.57	106.795	
17,600.00	7,618.00	8,264.00	8,063.27	148.48	36.99	97.65	1,634.67	-169.38	9,551.70	9,463.13	88.57	107.841	
17,700.00	7,618.00	8,264.00	8,063.27	150.13	36.99	97.65	1,634.67	-169.38	9,645.13	9,556.55	88.58	108.887	
17,800.00	7,618.00	8,264.00	8,063.27	151.78	36.99	97.65	1,634.67	-169.38	9,738.70	9,650.11	88.59	109.934	
17,900.00	7,618.00	8,264.00	8,063.27	153.43	36.99	97.65	1,634.67	-169.38	9,832.39	9,743.79	88.60	110.981	
18,000.00	7,618.00	8,264.00	8,063.27	155.09	36.99	97.65	1,634.67	-169.38	9,926.20	9,837.59	88.60	112.028	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-21.25	218.21	-84.84	234.34				
100.00	100.00	89.62	89.62	0.13	0.14	-21.29	218.21	-85.04	234.19	233.92	0.28	849.515	
200.00	200.00	190.28	190.27	0.49	0.47	-21.43	218.06	-85.58	234.26	233.30	0.96	244.175	
300.00	300.00	292.99	292.98	0.85	0.83	-21.64	217.14	-86.16	233.63	231.94	1.68	138.745	
400.00	400.00	402.10	402.01	1.21	1.22	-22.05	213.18	-86.36	230.32	227.89	2.43	94.592	
500.00	500.00	509.71	509.30	1.57	1.62	-22.95	204.98	-86.79	223.43	220.25	3.18	70.201	
600.00	600.00	617.55	616.39	1.93	2.04	-24.47	192.34	-87.53	212.96	209.03	3.93	54.120	
700.00	700.00	727.12	724.54	2.29	2.50	-26.38	174.88	-86.72	198.23	193.54	4.69	42.226	
800.00	800.00	832.42	827.45	2.64	2.98	-29.20	152.68	-85.34	178.87	173.43	5.45	32.842	
900.00	900.00	932.82	924.80	3.00	3.49	-33.31	128.13	-84.21	157.22	151.00	6.22	25.296	
1,000.00	999.98	1,030.11	1,018.58	3.36	4.00	-97.74	102.22	-83.88	135.49	128.46	7.03	19.276	
1,100.00	1,099.84	1,126.47	1,111.16	3.71	4.54	-109.19	75.54	-83.84	116.84	108.89	7.95	14.698	
1,200.00	1,199.45	1,220.76	1,201.36	4.07	5.08	-125.46	48.06	-84.02	105.62	96.61	9.01	11.727	
1,236.88	1,236.10	1,255.31	1,234.37	4.21	5.28	-132.31	37.85	-84.11	104.66	95.25	9.41	11.126	CC, ES
1,300.00	1,298.70	1,314.88	1,291.25	4.44	5.63	-144.34	20.16	-83.89	107.48	97.43	10.05	10.694	SF
1,400.00	1,397.47	1,407.22	1,379.23	4.82	6.19	-161.48	-7.84	-82.65	123.58	112.69	10.89	11.348	
1,500.00	1,495.62	1,497.80	1,465.26	5.22	6.75	-174.58	-36.14	-81.08	152.31	140.75	11.56	13.170	
1,600.00	1,593.06	1,586.53	1,549.61	5.65	7.30	176.56	-63.64	-79.52	189.68	177.47	12.20	15.542	
1,700.00	1,689.64	1,675.72	1,634.24	6.11	7.86	170.30	-91.73	-77.73	233.17	220.29	12.88	18.104	
1,800.00	1,785.27	1,765.34	1,719.57	6.61	8.41	166.02	-119.02	-75.41	280.13	266.53	13.60	20.593	
1,900.00	1,879.82	1,852.68	1,802.89	7.15	8.95	163.05	-145.08	-72.70	330.06	315.72	14.34	23.014	
2,000.00	1,973.17	1,941.47	1,887.65	7.73	9.49	160.80	-171.34	-69.50	382.77	367.64	15.13	25.305	
2,100.00	2,065.21	2,032.10	1,974.66	8.37	10.03	159.23	-196.42	-65.80	436.87	420.92	15.95	27.383	
2,200.00	2,155.84	2,116.06	2,055.58	9.07	10.51	158.20	-218.53	-62.47	492.93	476.19	16.74	29.444	
2,300.00	2,244.94	2,194.29	2,131.05	9.82	10.96	157.49	-239.01	-60.00	551.95	534.45	17.50	31.546	
2,400.00	2,332.39	2,275.57	2,209.62	10.64	11.42	157.00	-259.72	-58.11	613.50	595.20	18.30	33.531	
2,500.00	2,418.11	2,342.74	2,274.60	11.53	11.80	156.64	-276.68	-57.34	677.97	658.99	18.98	35.726	
2,558.91	2,467.74	2,381.42	2,311.99	12.08	12.02	156.45	-286.60	-57.35	717.55	698.17	19.38	37.032	
2,600.00	2,502.13	2,408.54	2,338.21	12.47	12.17	156.65	-293.55	-57.59	745.61	725.96	19.65	37.937	
2,700.00	2,585.83	2,475.48	2,402.93	13.45	12.55	157.14	-310.59	-59.01	814.39	794.05	20.33	40.054	
2,800.00	2,669.53	2,548.88	2,474.00	14.44	12.95	157.68	-328.76	-61.41	883.34	862.27	21.07	41.926	
2,900.00	2,753.22	2,629.57	2,552.15	15.46	13.40	158.16	-348.72	-63.47	951.97	930.09	21.88	43.502	
3,000.00	2,836.92	2,707.26	2,627.23	16.48	13.84	158.40	-368.70	-63.63	1,020.08	997.39	22.69	44.964	
3,100.00	2,920.62	2,775.56	2,693.08	17.52	14.23	158.52	-386.80	-62.96	1,088.10	1,064.69	23.41	46.478	
3,200.00	3,004.32	2,837.73	2,752.78	18.56	14.60	158.57	-404.14	-62.21	1,156.80	1,132.72	24.08	48.034	
3,300.00	3,088.01	2,939.71	2,850.63	19.61	15.21	158.56	-432.73	-59.53	1,224.93	1,199.75	25.17	48.659	
3,400.00	3,171.71	3,003.56	2,911.92	20.67	15.59	158.54	-450.52	-57.40	1,292.60	1,266.71	25.88	49.936	
3,500.00	3,255.41	3,066.54	2,972.28	21.73	15.97	158.52	-468.38	-55.41	1,360.66	1,334.07	26.59	51.168	
3,600.00	3,339.10	3,126.53	3,029.59	22.80	16.34	158.47	-486.02	-53.55	1,429.36	1,402.09	27.27	52.415	
3,700.00	3,422.80	3,183.97	3,084.40	23.87	16.70	158.45	-503.14	-52.35	1,498.76	1,470.84	27.92	53.677	
3,800.00	3,506.50	3,262.22	3,159.15	24.94	17.18	158.46	-526.27	-51.63	1,568.57	1,539.78	28.79	54.478	
3,900.00	3,590.20	3,355.42	3,248.53	26.02	17.74	158.50	-552.65	-50.53	1,637.53	1,607.71	29.82	54.917	
4,000.00	3,673.89	3,435.64	3,325.53	27.10	18.22	158.51	-575.06	-48.72	1,705.76	1,675.05	30.71	55.541	
4,100.00	3,757.59	3,500.99	3,388.14	28.18	18.62	158.50	-593.71	-46.82	1,774.05	1,742.59	31.46	56.396	
4,200.00	3,841.29	3,549.41	3,434.39	29.26	18.92	158.48	-607.98	-45.59	1,843.05	1,811.02	32.03	57.550	
4,300.00	3,924.99	3,598.01	3,480.67	30.35	19.22	158.46	-622.77	-44.76	1,912.98	1,880.39	32.59	58.696	
4,400.00	4,008.68	3,649.29	3,529.49	31.44	19.55	158.46	-638.48	-44.62	1,983.69	1,950.50	33.18	59.782	
4,500.00	4,092.38	3,709.57	3,586.90	32.52	19.92	158.49	-656.85	-45.40	2,055.01	2,021.14	33.87	60.679	
4,600.00	4,176.08	3,783.54	3,657.45	33.62	20.39	158.55	-679.06	-46.81	2,126.36	2,091.67	34.70	61.283	
4,700.00	4,259.77	3,867.56	3,737.70	34.71	20.90	158.62	-703.89	-48.32	2,197.41	2,161.78	35.63	61.664	
4,800.00	4,343.47	3,953.31	3,819.68	35.80	21.43	158.68	-729.01	-49.27	2,268.00	2,231.41	36.59	61.978	
4,900.00	4,427.17	4,066.16	3,927.78	36.89	22.11	158.73	-761.39	-49.36	2,337.80	2,299.96	37.84	61.777	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,510.87	4,180.40	4,037.87	37.99	22.78	158.80	-791.89	-48.33	2,405.82	2,366.73	39.09	61.553	
5,100.00	4,594.56	4,242.23	4,097.58	39.08	23.13	158.86	-807.92	-48.10	2,473.79	2,434.01	39.78	62.183	
5,200.00	4,678.26	4,284.64	4,138.50	40.18	23.38	158.90	-819.06	-48.32	2,542.39	2,502.11	40.28	63.124	
5,300.00	4,761.96	4,335.00	4,186.98	41.28	23.67	158.95	-832.68	-49.12	2,611.87	2,571.02	40.85	63.940	
5,400.00	4,845.66	4,395.78	4,245.44	42.37	24.03	159.02	-849.28	-50.48	2,681.84	2,640.31	41.53	64.581	
5,500.00	4,929.35	4,456.86	4,304.20	43.47	24.39	159.09	-865.83	-51.93	2,751.81	2,709.60	42.21	65.198	
5,600.00	5,013.05	4,504.87	4,350.31	44.57	24.67	159.13	-879.17	-53.25	2,822.31	2,779.56	42.75	66.017	
5,700.00	5,096.75	4,568.98	4,411.74	45.67	25.06	159.19	-897.42	-55.08	2,893.25	2,849.78	43.47	66.557	
5,800.00	5,180.45	4,710.52	4,547.28	46.77	25.91	159.25	-938.10	-56.87	2,963.87	2,918.84	45.02	65.827	
5,900.00	5,264.14	4,934.10	4,763.67	47.87	27.17	159.41	-994.19	-55.94	3,031.51	2,984.18	47.33	64.044	
6,000.00	5,347.84	5,071.61	4,897.75	48.97	27.88	159.51	-1,024.48	-52.62	3,096.18	3,047.44	48.74	63.527	
6,100.00	5,431.54	5,209.93	5,033.63	50.07	28.54	159.71	-1,050.22	-51.18	3,159.66	3,109.59	50.07	63.109	
6,200.00	5,515.23	5,716.38	5,538.22	51.17	30.16	161.27	-1,084.63	-52.24	3,215.11	3,161.68	53.42	60.180	
6,300.00	5,598.93	5,799.32	5,621.15	52.27	30.34	161.56	-1,084.38	-51.29	3,266.94	3,212.83	54.11	60.375	
6,400.00	5,682.63	5,878.82	5,700.65	53.38	30.51	161.83	-1,083.98	-50.61	3,318.86	3,264.08	54.77	60.591	
6,500.00	5,766.33	5,957.76	5,779.58	54.48	30.67	162.10	-1,083.61	-50.15	3,371.02	3,315.59	55.43	60.813	
6,600.00	5,850.02	6,041.80	5,863.62	55.58	30.85	162.37	-1,083.24	-49.69	3,423.28	3,367.17	56.11	61.007	
6,700.00	5,933.72	6,125.41	5,947.23	56.68	31.03	162.64	-1,082.79	-49.33	3,475.61	3,418.82	56.79	61.203	
6,800.00	6,017.42	6,206.58	6,028.40	57.79	31.21	162.90	-1,082.27	-49.14	3,528.03	3,470.58	57.45	61.414	
6,900.00	6,101.12	6,281.60	6,103.42	58.89	31.37	163.13	-1,081.77	-49.16	3,580.64	3,522.57	58.07	61.658	
7,000.00	6,184.81	6,350.35	6,172.16	59.99	31.51	163.35	-1,081.39	-49.41	3,633.58	3,574.91	58.67	61.936	
7,100.00	6,268.51	6,438.88	6,260.70	61.10	31.71	163.61	-1,081.01	-49.88	3,686.73	3,627.38	59.36	62.112	
7,200.00	6,352.21	6,551.39	6,373.20	62.20	31.96	163.94	-1,080.15	-50.12	3,739.56	3,679.40	60.16	62.157	
7,300.00	6,435.90	6,620.05	6,441.86	63.31	32.11	164.13	-1,079.54	-50.15	3,792.26	3,731.50	60.76	62.417	
7,400.00	6,519.60	6,711.27	6,533.08	64.41	32.31	164.38	-1,078.79	-50.36	3,845.16	3,783.70	61.46	62.563	
7,500.00	6,603.30	6,814.33	6,636.12	65.51	32.54	164.66	-1,077.52	-50.42	3,897.74	3,835.51	62.22	62.642	
7,600.00	6,687.00	6,903.02	6,724.81	66.62	32.74	164.89	-1,076.45	-50.01	3,950.08	3,887.16	62.92	62.778	
7,700.00	6,770.69	7,009.66	6,831.44	67.72	32.99	165.14	-1,075.52	-48.76	4,002.25	3,938.53	63.72	62.807	
7,800.00	6,854.39	7,086.63	6,908.40	68.83	33.17	165.31	-1,074.97	-47.45	4,054.23	3,989.85	64.38	62.973	
7,900.00	6,938.09	7,154.79	6,976.54	69.93	33.34	165.45	-1,074.70	-46.36	4,106.49	4,041.50	64.99	63.183	
7,933.18	6,965.86	7,176.34	6,998.09	70.30	33.40	165.50	-1,074.64	-46.08	4,123.93	4,058.73	65.19	63.259	
7,950.00	6,980.00	7,187.29	7,009.04	70.49	33.42	162.46	-1,074.62	-45.95	4,132.64	4,067.34	65.29	63.296	
8,000.00	7,022.68	7,221.47	7,043.22	71.01	33.51	153.03	-1,074.57	-45.60	4,156.84	4,091.24	65.60	63.367	
8,050.00	7,066.06	7,257.36	7,079.11	71.51	33.60	143.08	-1,074.52	-45.33	4,178.38	4,112.47	65.92	63.386	
8,100.00	7,109.82	7,293.44	7,115.19	71.97	33.69	132.90	-1,074.45	-45.16	4,197.13	4,130.89	66.24	63.360	
8,150.00	7,153.63	7,324.25	7,146.00	72.38	33.77	122.90	-1,074.42	-45.09	4,212.99	4,146.45	66.54	63.320	
8,200.00	7,197.14	7,354.06	7,175.81	72.74	33.85	113.58	-1,074.47	-45.09	4,225.91	4,159.10	66.82	63.245	
8,250.00	7,240.04	7,391.00	7,212.75	73.05	33.94	105.36	-1,074.64	-45.17	4,235.86	4,168.73	67.13	63.095	
8,300.00	7,281.99	7,446.38	7,268.13	73.31	34.10	98.51	-1,074.98	-45.14	4,242.63	4,175.08	67.55	62.803	
8,350.00	7,322.67	7,507.31	7,329.05	73.52	34.26	92.96	-1,075.38	-44.59	4,245.97	4,177.97	68.00	62.439	
8,400.00	7,361.77	7,552.69	7,374.42	73.68	34.39	88.47	-1,075.79	-43.92	4,246.09	4,177.73	68.35	62.119	
8,450.00	7,399.01	7,590.83	7,412.56	73.78	34.50	84.98	-1,076.24	-43.22	4,243.06	4,174.40	68.66	61.801	
8,500.00	7,434.08	7,619.84	7,441.56	73.85	34.58	82.32	-1,076.64	-42.67	4,237.05	4,168.15	68.90	61.496	
8,550.00	7,466.74	7,647.00	7,468.71	73.87	34.66	80.45	-1,077.07	-42.16	4,228.16	4,159.03	69.12	61.167	
8,600.00	7,496.72	7,672.00	7,493.70	73.85	34.73	79.28	-1,077.52	-41.70	4,216.48	4,147.14	69.33	60.816	
8,650.00	7,523.80	7,692.61	7,514.31	73.79	34.79	78.72	-1,077.91	-41.34	4,202.13	4,132.62	69.51	60.454	
8,700.00	7,547.77	7,710.86	7,532.55	73.70	34.84	78.72	-1,078.26	-41.06	4,185.25	4,115.58	69.67	60.072	
8,750.00	7,568.45	7,726.71	7,548.39	73.58	34.89	79.26	-1,078.57	-40.84	4,165.98	4,096.16	69.82	59.670	
8,800.00	7,585.69	7,740.05	7,561.73	73.43	34.93	80.30	-1,078.84	-40.68	4,144.48	4,074.52	69.95	59.248	
8,850.00	7,599.35	7,750.79	7,572.47	73.26	34.96	81.82	-1,079.06	-40.56	4,120.90	4,050.82	70.07	58.807	
8,900.00	7,609.33	7,758.85	7,580.53	73.07	34.99	83.83	-1,079.22	-40.47	4,095.42	4,025.23	70.19	58.348	
8,950.00	7,615.55	7,766.00	7,587.68	72.87	35.01	86.33	-1,079.37	-40.40	4,068.22	3,997.91	70.31	57.862	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	7,766.00	7,587.68	72.65	35.01	89.22	-1,079.37	-40.40	4,039.50	3,969.10	70.39	57.384	
9,006.60	7,618.00	7,766.00	7,587.68	72.62	35.01	89.64	-1,079.37	-40.40	4,035.60	3,965.19	70.41	57.318	
9,100.00	7,618.00	7,766.00	7,587.68	72.22	35.01	89.64	-1,079.37	-40.40	3,981.02	3,910.43	70.59	56.393	
9,200.00	7,618.00	7,766.00	7,587.68	71.80	35.01	89.64	-1,079.37	-40.40	3,924.21	3,853.38	70.83	55.407	
9,300.00	7,618.00	7,766.00	7,587.68	71.41	35.01	89.64	-1,079.37	-40.40	3,869.15	3,798.06	71.09	54.424	
9,400.00	7,618.00	7,766.00	7,587.68	71.04	35.01	89.64	-1,079.37	-40.40	3,815.91	3,744.52	71.40	53.447	
9,500.00	7,618.00	7,766.00	7,587.68	70.68	35.01	89.64	-1,079.37	-40.40	3,764.58	3,692.85	71.74	52.477	
9,600.00	7,618.00	7,766.00	7,587.68	70.35	35.01	89.64	-1,079.37	-40.40	3,715.24	3,643.12	72.12	51.516	
9,700.00	7,618.00	7,766.00	7,587.68	70.04	35.01	89.64	-1,079.37	-40.40	3,667.95	3,595.41	72.54	50.566	
9,800.00	7,618.00	7,766.00	7,587.68	69.75	35.01	89.64	-1,079.37	-40.40	3,622.81	3,549.81	73.00	49.628	
9,900.00	7,618.00	7,766.00	7,587.68	69.47	35.01	89.64	-1,079.37	-40.40	3,579.89	3,506.39	73.50	48.706	
10,000.00	7,618.00	7,766.00	7,587.68	69.22	35.01	89.64	-1,079.37	-40.40	3,539.28	3,465.24	74.04	47.802	
10,100.00	7,618.00	7,780.02	7,601.69	68.99	35.05	89.89	-1,079.67	-40.29	3,501.01	3,426.27	74.74	46.841	
10,200.00	7,618.00	7,781.32	7,602.99	68.78	35.05	89.91	-1,079.70	-40.28	3,465.24	3,389.87	75.37	45.975	
10,300.00	7,618.00	7,782.64	7,604.31	68.59	35.06	89.93	-1,079.73	-40.28	3,432.01	3,355.98	76.04	45.135	
10,400.00	7,618.00	7,783.96	7,605.63	68.42	35.06	89.96	-1,079.76	-40.27	3,401.40	3,324.66	76.74	44.325	
10,500.00	7,618.00	7,785.30	7,606.97	68.28	35.07	89.98	-1,079.79	-40.26	3,373.48	3,296.01	77.47	43.547	
10,600.00	7,618.00	7,786.66	7,608.33	68.16	35.07	90.01	-1,079.82	-40.25	3,348.30	3,270.08	78.22	42.805	
10,700.00	7,618.00	7,788.03	7,609.70	68.06	35.07	90.03	-1,079.85	-40.25	3,325.95	3,246.95	79.00	42.100	
10,800.00	7,618.00	7,789.41	7,611.08	67.99	35.08	90.05	-1,079.88	-40.24	3,306.47	3,226.67	79.80	41.436	
10,900.00	7,618.00	7,790.81	7,612.48	67.95	35.08	90.08	-1,079.91	-40.23	3,289.91	3,209.30	80.61	40.814	
11,000.00	7,618.00	7,792.22	7,613.89	67.95	35.09	90.10	-1,079.94	-40.22	3,276.32	3,194.89	81.43	40.236	
11,100.00	7,618.00	7,793.65	7,615.32	67.97	35.09	90.13	-1,079.98	-40.22	3,265.74	3,183.49	82.25	39.704	
11,200.00	7,618.00	7,795.10	7,616.77	68.04	35.10	90.15	-1,080.01	-40.21	3,258.19	3,175.12	83.07	39.220	
11,300.00	7,618.00	7,796.56	7,618.23	68.15	35.10	90.18	-1,080.05	-40.21	3,253.70	3,169.81	83.89	38.785	
11,396.27	7,618.00	7,797.98	7,619.65	68.29	35.10	90.21	-1,080.08	-40.20	3,252.28	3,167.61	84.67	38.412	
11,400.00	7,618.00	7,798.03	7,619.70	68.30	35.10	90.21	-1,080.08	-40.20	3,252.28	3,167.58	84.70	38.398	
11,500.00	7,618.00	7,799.53	7,621.19	68.50	35.11	90.23	-1,080.11	-40.20	3,253.93	3,168.44	85.49	38.062	
11,600.00	7,618.00	7,801.04	7,622.70	68.75	35.11	90.26	-1,080.15	-40.19	3,258.65	3,172.39	86.26	37.776	
11,700.00	7,618.00	7,802.56	7,624.23	69.06	35.12	90.29	-1,080.19	-40.19	3,266.43	3,179.41	87.01	37.539	
11,800.00	7,618.00	7,804.10	7,625.77	69.44	35.12	90.31	-1,080.22	-40.18	3,277.23	3,189.50	87.74	37.353	
11,900.00	7,618.00	7,805.67	7,627.33	69.88	35.13	90.34	-1,080.26	-40.18	3,291.04	3,202.61	88.43	37.216	
12,000.00	7,618.00	7,807.24	7,628.91	70.39	35.13	90.37	-1,080.30	-40.18	3,307.82	3,218.73	89.09	37.127	
12,100.00	7,618.00	7,808.84	7,630.50	70.97	35.14	90.40	-1,080.34	-40.17	3,327.52	3,237.79	89.72	37.087	
12,200.00	7,618.00	7,810.45	7,632.12	71.63	35.14	90.42	-1,080.38	-40.17	3,350.08	3,259.77	90.32	37.093	
12,300.00	7,618.00	7,812.09	7,633.75	72.35	35.15	90.45	-1,080.42	-40.17	3,375.46	3,284.59	90.87	37.145	
12,400.00	7,618.00	7,813.74	7,635.40	73.15	35.15	90.48	-1,080.46	-40.17	3,403.59	3,312.20	91.39	37.241	
12,500.00	7,618.00	7,815.41	7,637.07	74.01	35.16	90.51	-1,080.50	-40.17	3,434.40	3,342.52	91.88	37.381	
12,600.00	7,618.00	7,817.10	7,638.76	74.93	35.16	90.54	-1,080.54	-40.17	3,467.82	3,375.49	92.32	37.562	
12,700.00	7,618.00	7,818.81	7,640.47	75.91	35.17	90.57	-1,080.59	-40.17	3,503.77	3,411.04	92.73	37.784	
12,800.00	7,618.00	7,820.54	7,642.20	76.95	35.17	90.60	-1,080.63	-40.17	3,542.18	3,449.07	93.11	38.045	
12,900.00	7,618.00	7,822.29	7,643.95	78.04	35.18	90.63	-1,080.67	-40.17	3,582.97	3,489.52	93.44	38.343	
13,000.00	7,618.00	7,824.06	7,645.72	79.16	35.18	90.66	-1,080.72	-40.17	3,626.06	3,532.31	93.75	38.678	
13,100.00	7,618.00	7,825.86	7,647.52	80.33	35.19	90.70	-1,080.77	-40.17	3,671.36	3,577.34	94.02	39.047	
13,200.00	7,618.00	7,827.67	7,649.33	81.54	35.19	90.73	-1,080.81	-40.18	3,718.80	3,624.54	94.27	39.450	
13,300.00	7,618.00	7,829.51	7,651.17	82.78	35.20	90.76	-1,080.86	-40.18	3,768.30	3,673.82	94.48	39.884	
13,400.00	7,618.00	7,831.37	7,653.03	84.05	35.20	90.79	-1,080.91	-40.18	3,819.78	3,725.11	94.67	40.349	
13,500.00	7,618.00	7,833.25	7,654.91	85.35	35.21	90.83	-1,080.96	-40.19	3,873.15	3,778.31	94.83	40.843	
13,600.00	7,618.00	7,835.16	7,656.82	86.67	35.22	90.86	-1,081.01	-40.19	3,928.34	3,833.37	94.97	41.364	
13,700.00	7,618.00	7,837.09	7,658.75	88.02	35.22	90.89	-1,081.06	-40.20	3,985.27	3,890.18	95.09	41.912	
13,800.00	7,618.00	7,839.05	7,660.70	89.38	35.23	90.93	-1,081.12	-40.21	4,043.88	3,948.69	95.18	42.486	
13,900.00	7,618.00	7,841.03	7,662.68	90.77	35.23	90.96	-1,081.17	-40.22	4,104.08	4,008.82	95.26	43.083	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,618.00	7,843.03	7,664.69	92.17	35.24	91.00	-1,081.22	-40.23	4,165.81	4,070.49	95.32	43.704	
14,100.00	7,618.00	7,845.06	7,666.72	93.59	35.25	91.03	-1,081.28	-40.23	4,229.01	4,133.64	95.36	44.346	
14,200.00	7,618.00	7,847.12	7,668.77	95.02	35.25	91.07	-1,081.34	-40.25	4,293.60	4,198.21	95.39	45.009	
14,300.00	7,618.00	7,849.20	7,670.85	96.47	35.26	91.11	-1,081.39	-40.26	4,359.53	4,264.12	95.41	45.692	
14,400.00	7,618.00	7,851.32	7,672.96	97.93	35.27	91.14	-1,081.45	-40.27	4,426.73	4,331.32	95.42	46.394	
14,500.00	7,618.00	7,853.45	7,675.10	99.41	35.27	91.18	-1,081.51	-40.28	4,495.16	4,399.75	95.41	47.114	
14,600.00	7,618.00	7,859.00	7,680.65	100.89	35.29	91.28	-1,081.67	-40.32	4,564.74	4,469.33	95.41	47.842	
14,700.00	7,618.00	7,859.00	7,680.65	102.38	35.29	91.28	-1,081.67	-40.32	4,635.44	4,540.06	95.38	48.600	
14,800.00	7,618.00	7,859.00	7,680.65	103.89	35.29	91.28	-1,081.67	-40.32	4,707.20	4,611.87	95.34	49.375	
14,900.00	7,618.00	7,859.00	7,680.65	105.40	35.29	91.28	-1,081.67	-40.32	4,779.98	4,684.69	95.29	50.164	
15,000.00	7,618.00	7,859.00	7,680.65	106.92	35.29	91.28	-1,081.67	-40.32	4,853.72	4,758.49	95.23	50.967	
15,100.00	7,618.00	7,859.00	7,680.65	108.45	35.29	91.28	-1,081.67	-40.32	4,928.39	4,833.22	95.17	51.784	
15,200.00	7,618.00	7,859.00	7,680.65	109.99	35.29	91.28	-1,081.67	-40.32	5,003.94	4,908.84	95.11	52.613	
15,300.00	7,618.00	7,859.00	7,680.65	111.54	35.29	91.28	-1,081.67	-40.32	5,080.34	4,985.30	95.04	53.454	
15,400.00	7,618.00	7,870.74	7,692.38	113.09	35.32	91.49	-1,082.01	-40.43	5,157.53	5,062.50	95.03	54.273	
15,500.00	7,618.00	7,872.63	7,694.27	114.65	35.33	91.52	-1,082.07	-40.45	5,235.50	5,140.53	94.97	55.131	
15,600.00	7,618.00	7,874.53	7,696.17	116.21	35.34	91.55	-1,082.13	-40.47	5,314.21	5,219.31	94.90	55.999	
15,700.00	7,618.00	7,876.45	7,698.08	117.78	35.34	91.59	-1,082.18	-40.49	5,393.62	5,298.79	94.83	56.877	
15,800.00	7,618.00	7,878.38	7,700.02	119.36	35.35	91.62	-1,082.24	-40.52	5,473.71	5,378.95	94.76	57.764	
15,900.00	7,618.00	7,880.34	7,701.98	120.94	35.35	91.65	-1,082.30	-40.54	5,554.44	5,459.75	94.69	58.660	
16,000.00	7,618.00	7,882.32	7,703.95	122.53	35.36	91.69	-1,082.36	-40.57	5,635.78	5,541.17	94.62	59.564	
16,100.00	7,618.00	7,884.31	7,705.95	124.12	35.37	91.72	-1,082.42	-40.60	5,717.72	5,623.18	94.54	60.477	
16,200.00	7,618.00	7,886.33	7,707.96	125.72	35.37	91.76	-1,082.48	-40.63	5,800.22	5,705.75	94.47	61.396	
16,300.00	7,618.00	7,888.37	7,710.00	127.32	35.38	91.80	-1,082.55	-40.66	5,883.27	5,788.87	94.40	62.323	
16,400.00	7,618.00	7,890.43	7,712.06	128.93	35.39	91.83	-1,082.61	-40.69	5,966.83	5,872.51	94.33	63.257	
16,500.00	7,618.00	7,892.51	7,714.13	130.54	35.39	91.87	-1,082.68	-40.72	6,050.90	5,956.64	94.26	64.197	
16,600.00	7,618.00	7,894.61	7,716.23	132.15	35.40	91.91	-1,082.74	-40.76	6,135.44	6,041.25	94.18	65.143	
16,700.00	7,618.00	7,896.73	7,718.35	133.77	35.40	91.94	-1,082.81	-40.80	6,220.43	6,126.32	94.11	66.095	
16,800.00	7,618.00	7,898.87	7,720.50	135.39	35.41	91.98	-1,082.88	-40.84	6,305.87	6,211.82	94.04	67.053	
16,900.00	7,618.00	7,901.04	7,722.66	137.01	35.42	92.02	-1,082.95	-40.88	6,391.72	6,297.75	93.97	68.015	
17,000.00	7,618.00	7,903.23	7,724.85	138.64	35.42	92.06	-1,083.02	-40.92	6,477.99	6,384.08	93.91	68.983	
17,100.00	7,618.00	7,905.44	7,727.06	140.27	35.43	92.10	-1,083.09	-40.96	6,564.64	6,470.80	93.84	69.955	
17,200.00	7,618.00	8,346.72	8,167.55	141.91	36.90	99.78	-1,105.56	-34.88	6,651.58	6,556.04	95.55	69.617	
17,300.00	7,618.00	8,350.43	8,171.26	143.55	36.91	99.84	-1,105.84	-34.74	6,738.63	6,643.16	95.47	70.581	
17,400.00	7,618.00	8,354.11	8,174.92	145.19	36.92	99.91	-1,106.11	-34.60	6,826.03	6,730.63	95.40	71.550	
17,500.00	7,618.00	8,357.73	8,178.53	146.83	36.94	99.97	-1,106.38	-34.47	6,913.77	6,818.44	95.33	72.522	
17,600.00	7,618.00	8,361.32	8,182.11	148.48	36.95	100.03	-1,106.64	-34.33	7,001.84	6,906.57	95.27	73.498	
17,700.00	7,618.00	8,364.87	8,185.64	150.13	36.96	100.09	-1,106.90	-34.21	7,090.21	6,995.01	95.20	74.477	
17,800.00	7,618.00	8,368.37	8,189.13	151.78	36.98	100.15	-1,107.16	-34.08	7,178.89	7,083.76	95.14	75.460	
17,900.00	7,618.00	8,371.83	8,192.58	153.43	36.99	100.21	-1,107.41	-33.96	7,267.86	7,172.79	95.07	76.446	
18,000.00	7,618.00	8,375.26	8,196.00	155.09	37.00	100.27	-1,107.66	-33.83	7,357.11	7,262.10	95.01	77.434	
18,100.00	7,618.00	8,378.64	8,199.37	156.75	37.01	100.33	-1,107.90	-33.72	7,446.63	7,351.68	94.95	78.426	
18,200.00	7,618.00	8,381.99	8,202.71	158.41	37.02	100.38	-1,108.14	-33.60	7,536.41	7,441.51	94.89	79.420	
18,300.00	7,618.00	8,385.30	8,206.01	160.07	37.04	100.44	-1,108.37	-33.49	7,626.44	7,531.60	94.84	80.416	
18,400.00	7,618.00	8,388.57	8,209.27	161.74	37.05	100.50	-1,108.60	-33.37	7,716.71	7,621.93	94.78	81.415	
18,500.00	7,618.00	8,391.81	8,212.50	163.41	37.06	100.55	-1,108.83	-33.27	7,807.22	7,712.49	94.73	82.416	
18,600.00	7,618.00	8,395.01	8,215.69	165.08	37.07	100.61	-1,109.05	-33.16	7,897.95	7,803.27	94.68	83.418	
18,700.00	7,618.00	8,398.18	8,218.84	166.75	37.08	100.66	-1,109.27	-33.05	7,988.90	7,894.27	94.63	84.423	
18,711.30	7,618.00	8,398.53	8,219.20	166.94	37.08	100.67	-1,109.29	-33.04	7,999.19	7,904.57	94.62	84.537	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-16.65	218.21	-65.24	227.97				
100.00	100.00	87.95	87.94	0.13	0.14	-16.60	218.64	-65.18	228.16	227.88	0.28	817.228	
200.00	200.00	189.52	189.51	0.49	0.41	-16.37	219.87	-64.58	229.16	228.26	0.90	254.882	
300.00	300.00	295.71	295.63	0.85	0.79	-15.49	219.71	-60.89	228.06	226.42	1.64	139.194	
400.00	400.00	400.02	399.60	1.21	1.17	-13.63	218.04	-52.87	224.56	222.18	2.38	94.295	
500.00	500.00	500.88	499.66	1.57	1.57	-10.57	216.18	-40.34	220.12	216.99	3.13	70.241	
600.00	600.00	607.68	605.09	1.93	2.02	-6.38	212.56	-23.76	214.42	210.48	3.94	54.435	
700.00	700.00	704.22	699.81	2.29	2.47	-1.55	208.24	-5.62	208.54	203.80	4.74	43.965	
792.21	792.21	788.79	782.21	2.62	2.89	3.68	205.65	13.23	206.08	200.58	5.50	37.479	
800.00	800.00	795.23	788.46	2.64	2.92	4.11	205.57	14.77	206.11	200.55	5.56	37.066	
900.00	900.00	878.72	869.33	3.00	3.36	9.66	207.66	35.35	211.65	205.31	6.34	33.376	
1,000.00	999.98	980.80	967.96	3.36	3.91	-41.23	211.81	61.31	220.30	213.08	7.22	30.493	
1,100.00	1,099.84	1,079.82	1,063.59	3.71	4.45	-35.89	213.82	86.90	226.65	218.58	8.07	28.080	
1,200.00	1,199.45	1,177.00	1,157.18	4.07	5.00	-31.17	215.70	113.01	232.24	223.35	8.90	26.105	
1,300.00	1,298.70	1,275.05	1,251.70	4.44	5.56	-27.19	218.06	138.94	236.44	226.73	9.71	24.358	
1,400.00	1,397.47	1,368.03	1,341.66	4.82	6.08	-24.44	222.28	162.06	239.42	228.97	10.45	22.907	
1,500.00	1,495.62	1,465.37	1,435.49	5.22	6.63	-22.15	229.27	187.03	242.37	231.13	11.24	21.572	
1,600.00	1,593.06	1,563.32	1,529.86	5.65	7.19	-20.16	236.29	212.29	242.51	230.50	12.01	20.196	
1,700.00	1,689.64	1,659.49	1,622.24	6.11	7.75	-18.45	244.04	237.90	240.90	228.13	12.77	18.866	
1,800.00	1,785.27	1,760.77	1,719.53	6.61	8.33	-17.17	253.47	264.39	236.83	223.24	13.59	17.428	
1,900.00	1,879.82	1,861.40	1,816.49	7.15	8.91	-16.27	262.64	289.72	228.69	214.28	14.41	15.869	
2,000.00	1,973.17	1,968.14	1,919.69	7.73	9.50	-15.37	270.57	315.76	215.48	200.18	15.30	14.085	
2,100.00	2,065.21	2,065.71	2,014.28	8.37	10.04	-14.50	276.25	339.02	197.42	181.32	16.10	12.259	
2,200.00	2,155.84	2,161.25	2,106.72	9.07	10.58	-13.68	282.21	362.41	176.85	159.96	16.90	10.467	
2,300.00	2,244.94	2,258.46	2,200.65	9.82	11.13	-12.97	288.96	386.55	153.77	136.05	17.72	8.680	
2,400.00	2,332.39	2,357.41	2,296.58	10.64	11.68	-12.40	295.02	410.00	126.04	107.48	18.56	6.789	
2,500.00	2,418.11	2,452.37	2,388.88	11.53	12.19	-12.17	300.52	431.62	94.19	74.79	19.40	4.856	
2,558.91	2,467.74	2,507.57	2,442.55	12.08	12.49	-12.35	303.89	444.06	73.95	54.04	19.91	3.714	
2,600.00	2,502.13	2,545.95	2,479.86	12.47	12.70	-12.51	306.24	452.76	59.49	39.21	20.28	2.934	
2,700.00	2,585.83	2,639.55	2,570.55	13.45	13.22	-8.50	310.61	475.52	24.53	3.69	20.84	1.177	Level 2
2,768.38	2,643.06	2,703.55	2,632.51	14.13	13.58	72.97	312.90	491.33	3.39	-22.64	26.04	0.130	Level 1, CC, ES, SF
2,800.00	2,669.53	2,733.11	2,661.16	14.44	13.75	145.22	313.91	498.60	11.80	-12.67	24.47	0.482	Level 1
2,900.00	2,753.22	2,827.03	2,751.98	15.46	14.28	158.76	317.92	522.14	46.23	22.32	23.92	1.933	
3,000.00	2,836.92	2,920.13	2,841.95	16.48	14.82	160.12	321.12	545.86	81.35	56.62	24.73	3.289	
3,100.00	2,920.62	3,014.13	2,932.76	17.52	15.36	160.42	323.90	570.00	116.70	91.01	25.69	4.543	
3,200.00	3,004.32	3,109.69	3,024.95	18.56	15.92	160.75	327.75	594.87	151.07	124.41	26.66	5.666	
3,300.00	3,088.01	3,204.67	3,116.68	19.61	16.47	161.49	333.25	618.85	184.65	157.10	27.54	6.704	
3,400.00	3,171.71	3,298.51	3,207.38	20.67	17.00	162.19	339.25	642.18	218.07	189.67	28.40	7.678	
3,500.00	3,255.41	3,391.01	3,296.98	21.73	17.52	162.84	345.19	664.37	252.05	222.81	29.24	8.620	
3,600.00	3,339.10	3,483.10	3,386.26	22.80	18.03	163.34	350.80	686.22	286.47	256.37	30.09	9.519	
3,700.00	3,422.80	3,572.69	3,473.25	23.87	18.52	163.57	354.86	707.28	322.11	291.15	30.96	10.403	
3,800.00	3,506.50	3,666.98	3,564.69	24.94	19.04	163.60	358.33	729.98	357.99	326.06	31.93	11.211	
3,900.00	3,590.20	3,759.78	3,654.81	26.02	19.56	163.73	362.16	751.82	393.92	361.05	32.86	11.986	
4,000.00	3,673.89	3,854.09	3,746.31	27.10	20.08	163.80	365.95	774.33	429.70	395.87	33.83	12.703	
4,100.00	3,757.59	3,946.59	3,836.10	28.18	20.59	163.87	369.72	796.26	465.54	430.77	34.77	13.390	
4,200.00	3,841.29	4,040.71	3,927.50	29.26	21.10	163.98	373.78	818.32	501.40	465.69	35.72	14.039	
4,300.00	3,924.99	4,135.33	4,019.55	30.35	21.61	164.25	379.19	839.54	536.96	500.34	36.62	14.664	
4,400.00	4,008.68	4,225.95	4,107.75	31.44	22.09	164.47	384.04	859.76	572.86	535.38	37.48	15.283	
4,500.00	4,092.38	4,321.73	4,200.90	32.52	22.61	164.65	389.21	881.46	608.49	570.07	38.42	15.840	
4,600.00	4,176.08	4,406.14	4,283.22	33.62	23.05	164.87	393.87	899.54	644.87	605.67	39.20	16.450	
4,700.00	4,259.77	4,502.79	4,377.37	34.71	23.56	164.98	398.09	920.98	681.53	641.37	40.16	16.970	
4,800.00	4,343.47	4,596.33	4,468.35	35.80	24.07	165.02	401.90	942.34	717.97	676.86	41.11	17.464	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,427.17	4,691.24	4,560.72	36.89	24.58	165.11	406.36	963.71	754.19	712.13	42.06	17.932	
5,000.00	4,510.87	4,778.35	4,645.49	37.99	25.04	165.17	410.13	983.38	790.63	747.70	42.93	18.418	
5,100.00	4,594.56	4,848.97	4,714.39	39.08	25.41	165.17	411.94	998.78	828.77	785.16	43.61	19.003	
5,200.00	4,678.26	4,921.17	4,785.13	40.18	25.76	165.19	412.60	1,013.14	869.23	824.95	44.28	19.628	
5,300.00	4,761.96	4,995.13	4,858.00	41.28	26.10	165.31	413.15	1,025.80	911.60	866.68	44.93	20.290	
5,400.00	4,845.66	5,071.12	4,933.14	42.37	26.42	165.49	413.60	1,037.17	955.46	909.90	45.56	20.971	
5,500.00	4,929.35	5,148.53	5,009.86	43.47	26.74	165.72	413.95	1,047.43	1,000.50	954.32	46.19	21.662	
5,600.00	5,013.05	5,223.94	5,084.76	44.57	27.02	165.98	414.19	1,056.20	1,046.67	999.91	46.76	22.383	
5,700.00	5,096.75	5,293.41	5,153.90	45.67	27.27	166.25	414.36	1,062.94	1,094.15	1,046.92	47.23	23.165	
5,800.00	5,180.45	5,362.36	5,222.67	46.77	27.49	166.58	414.51	1,067.90	1,143.21	1,095.54	47.67	23.983	
5,900.00	5,264.14	5,433.64	5,293.85	47.87	27.71	166.94	414.65	1,071.66	1,193.52	1,145.41	48.11	24.806	
6,000.00	5,347.84	5,510.46	5,370.60	48.97	27.93	167.34	414.74	1,074.75	1,244.72	1,196.10	48.62	25.599	
6,100.00	5,431.54	5,592.46	5,452.56	50.07	28.16	167.76	414.84	1,077.46	1,296.41	1,247.21	49.20	26.349	
6,200.00	5,515.23	5,667.13	5,527.21	51.17	28.37	168.13	415.05	1,079.40	1,348.50	1,298.82	49.68	27.141	
6,300.00	5,598.93	5,739.41	5,599.48	52.27	28.56	168.50	415.29	1,080.33	1,401.43	1,351.30	50.13	27.956	
6,400.00	5,682.63	5,814.12	5,674.19	53.38	28.74	168.88	415.45	1,080.55	1,455.08	1,404.48	50.60	28.755	
6,500.00	5,766.33	5,897.78	5,757.84	54.48	28.94	169.29	415.74	1,080.42	1,509.02	1,457.84	51.18	29.484	
6,600.00	5,850.02	5,977.77	5,837.84	55.58	29.13	169.66	415.97	1,080.18	1,563.12	1,511.40	51.72	30.224	
6,700.00	5,933.72	6,059.53	5,919.60	56.68	29.32	170.02	416.12	1,079.83	1,617.41	1,565.13	52.28	30.936	
6,800.00	6,017.42	6,141.49	6,001.55	57.79	29.52	170.36	416.37	1,079.28	1,671.82	1,618.97	52.85	31.631	
6,900.00	6,101.12	6,223.11	6,083.17	58.89	29.71	170.68	416.60	1,078.65	1,726.36	1,672.93	53.43	32.311	
7,000.00	6,184.81	6,303.01	6,163.07	59.99	29.89	170.96	416.65	1,078.04	1,781.04	1,727.05	53.99	32.987	
7,100.00	6,268.51	6,381.66	6,241.71	61.10	30.08	171.24	416.70	1,077.17	1,835.98	1,781.43	54.55	33.660	
7,200.00	6,352.21	6,462.49	6,322.53	62.20	30.26	171.52	416.94	1,075.93	1,891.09	1,835.96	55.13	34.305	
7,300.00	6,435.90	6,541.71	6,401.74	63.31	30.45	171.78	417.16	1,074.58	1,946.37	1,890.67	55.69	34.948	
7,400.00	6,519.60	6,616.13	6,476.14	64.41	30.62	172.01	417.05	1,073.27	2,001.92	1,945.71	56.21	35.613	
7,500.00	6,603.30	6,706.55	6,566.56	65.51	30.83	172.26	416.55	1,071.79	2,057.65	2,000.72	56.93	36.146	
7,600.00	6,687.00	6,823.49	6,683.49	66.62	31.13	172.56	416.67	1,070.83	2,112.55	2,054.61	57.94	36.461	
7,700.00	6,770.69	6,927.70	6,787.69	67.72	31.41	172.80	417.37	1,071.32	2,166.28	2,107.45	58.83	36.821	
7,800.00	6,854.39	7,014.35	6,874.34	68.83	31.66	172.97	417.91	1,072.32	2,219.63	2,160.08	59.55	37.275	
7,900.00	6,938.09	7,099.73	6,959.71	69.93	31.90	173.14	418.51	1,073.34	2,272.91	2,212.66	60.25	37.724	
7,933.18	6,965.86	7,130.10	6,990.08	70.30	31.99	173.20	418.77	1,073.68	2,290.58	2,230.07	60.51	37.857	
7,950.00	6,980.00	7,146.28	7,006.25	70.49	32.03	170.07	418.91	1,073.89	2,299.40	2,238.75	60.64	37.917	
8,000.00	7,022.68	7,195.18	7,055.15	71.01	32.18	160.43	419.33	1,074.62	2,324.05	2,263.01	61.04	38.075	
8,050.00	7,066.06	7,240.31	7,100.27	71.51	32.31	150.30	419.71	1,075.39	2,346.27	2,284.89	61.37	38.230	
8,100.00	7,109.82	7,284.77	7,144.72	71.97	32.44	140.00	420.12	1,076.15	2,365.99	2,304.32	61.68	38.361	
8,150.00	7,153.63	7,327.01	7,186.96	72.38	32.56	129.94	420.56	1,076.80	2,383.14	2,321.21	61.93	38.480	
8,200.00	7,197.14	7,367.81	7,227.75	72.74	32.68	120.61	421.13	1,077.27	2,397.70	2,335.55	62.15	38.579	
8,250.00	7,240.04	7,404.22	7,264.15	73.05	32.78	112.31	421.75	1,077.54	2,409.65	2,347.35	62.30	38.679	
8,300.00	7,281.99	7,434.97	7,294.90	73.31	32.87	105.18	422.19	1,077.66	2,419.08	2,356.72	62.37	38.787	
8,350.00	7,322.67	7,464.75	7,324.67	73.52	32.95	99.28	422.52	1,077.70	2,426.04	2,363.63	62.41	38.871	
8,400.00	7,361.77	7,495.74	7,355.67	73.68	33.04	94.56	422.74	1,077.64	2,430.53	2,368.07	62.46	38.915	
8,450.00	7,399.01	7,529.91	7,389.83	73.78	33.13	90.92	422.95	1,077.54	2,432.51	2,369.98	62.53	38.900	
8,500.00	7,434.08	7,562.06	7,421.98	73.85	33.22	88.17	423.13	1,077.42	2,432.05	2,369.46	62.58	38.860	
8,550.00	7,466.74	7,591.70	7,451.62	73.87	33.30	86.17	423.28	1,077.27	2,429.22	2,366.61	62.62	38.796	
8,600.00	7,496.72	7,618.55	7,478.47	73.85	33.37	84.81	423.43	1,077.09	2,424.15	2,361.53	62.63	38.708	
8,650.00	7,523.80	7,642.71	7,502.63	73.79	33.43	84.00	423.56	1,076.90	2,416.96	2,354.33	62.63	38.593	
8,700.00	7,547.77	7,664.01	7,523.93	73.70	33.49	83.68	423.69	1,076.70	2,407.77	2,345.15	62.62	38.450	
8,750.00	7,568.45	7,683.64	7,543.55	73.58	33.54	83.80	423.81	1,076.50	2,396.71	2,334.08	62.63	38.268	
8,800.00	7,585.69	7,700.84	7,560.76	73.43	33.58	84.32	423.91	1,076.33	2,383.91	2,321.26	62.65	38.052	
8,850.00	7,599.35	7,714.46	7,574.38	73.26	33.62	85.17	423.98	1,076.20	2,369.51	2,306.84	62.67	37.809	
8,900.00	7,609.33	7,724.38	7,584.29	73.07	33.65	86.30	424.03	1,076.11	2,353.66	2,290.96	62.70	37.538	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,950.00	7,615.55	7,730.49	7,590.41	72.87	33.66	87.71	424.06	1,076.05	2,336.49	2,273.75	62.74	37.241	
9,000.00	7,617.97	7,732.74	7,592.65	72.65	33.67	89.35	424.07	1,076.03	2,318.14	2,255.35	62.79	36.919	
9,006.60	7,618.00	7,732.74	7,592.65	72.62	33.67	89.59	424.07	1,076.03	2,315.63	2,252.83	62.80	36.874	
9,100.00	7,618.00	7,732.33	7,592.24	72.22	33.67	89.58	424.06	1,076.03	2,281.70	2,218.75	62.96	36.241	
9,200.00	7,618.00	7,731.88	7,591.79	71.80	33.67	89.57	424.06	1,076.04	2,249.11	2,185.87	63.25	35.561	
9,300.00	7,618.00	7,731.43	7,591.34	71.41	33.67	89.55	424.06	1,076.04	2,220.55	2,156.89	63.66	34.881	
9,400.00	7,618.00	7,730.97	7,590.89	71.04	33.66	89.54	424.06	1,076.05	2,196.17	2,131.97	64.20	34.208	
9,500.00	7,618.00	7,730.52	7,590.43	70.68	33.66	89.53	424.06	1,076.05	2,176.12	2,111.25	64.87	33.548	
9,600.00	7,618.00	7,730.06	7,589.97	70.35	33.66	89.52	424.05	1,076.05	2,160.51	2,094.87	65.65	32.911	
9,700.00	7,618.00	7,729.59	7,589.51	70.04	33.66	89.51	424.05	1,076.06	2,149.45	2,082.92	66.54	32.305	
9,800.00	7,618.00	7,729.13	7,589.04	69.75	33.66	89.49	424.05	1,076.06	2,143.01	2,075.49	67.52	31.739	
9,888.36	7,618.00	7,728.71	7,588.63	69.50	33.66	89.48	424.05	1,076.07	2,141.18	2,072.72	68.46	31.276	
9,900.00	7,618.00	7,728.66	7,588.57	69.47	33.66	89.48	424.05	1,076.07	2,141.22	2,072.63	68.58	31.220	
10,000.00	7,618.00	7,728.19	7,588.10	69.22	33.66	89.47	424.05	1,076.07	2,144.09	2,074.38	69.71	30.757	
10,100.00	7,618.00	7,727.71	7,587.63	68.99	33.66	89.45	424.04	1,076.08	2,151.62	2,080.74	70.88	30.354	
10,200.00	7,618.00	7,727.23	7,587.15	68.78	33.65	89.44	424.04	1,076.08	2,163.74	2,091.66	72.08	30.017	
10,300.00	7,618.00	7,726.75	7,586.67	68.59	33.65	89.43	424.04	1,076.08	2,180.39	2,107.10	73.29	29.749	
10,400.00	7,618.00	7,726.27	7,586.18	68.42	33.65	89.42	424.04	1,076.09	2,201.46	2,126.96	74.50	29.551	
10,500.00	7,618.00	7,725.78	7,585.69	68.28	33.65	89.40	424.04	1,076.09	2,226.83	2,151.14	75.68	29.423	
10,600.00	7,618.00	7,725.28	7,585.20	68.16	33.65	89.39	424.03	1,076.10	2,256.34	2,179.51	76.84	29.365	
10,700.00	7,618.00	7,724.79	7,584.70	68.06	33.65	89.38	424.03	1,076.10	2,289.85	2,211.90	77.95	29.376	
10,800.00	7,618.00	7,724.29	7,584.20	67.99	33.65	89.36	424.03	1,076.11	2,327.17	2,248.16	79.01	29.453	
10,900.00	7,618.00	7,723.79	7,583.70	67.95	33.65	89.35	424.03	1,076.11	2,368.13	2,288.11	80.02	29.594	
11,000.00	7,618.00	7,723.28	7,583.20	67.95	33.64	89.34	424.02	1,076.12	2,412.55	2,331.58	80.97	29.796	
11,100.00	7,618.00	7,722.77	7,582.69	67.97	33.64	89.32	424.02	1,076.12	2,460.22	2,378.37	81.86	30.055	
11,200.00	7,618.00	7,722.26	7,582.17	68.04	33.64	89.31	424.02	1,076.13	2,510.98	2,428.30	82.69	30.368	
11,300.00	7,618.00	7,721.74	7,581.66	68.15	33.64	89.30	424.02	1,076.13	2,564.63	2,481.18	83.45	30.732	
11,400.00	7,618.00	7,721.22	7,581.14	68.30	33.64	89.28	424.01	1,076.13	2,621.00	2,536.85	84.16	31.144	
11,500.00	7,618.00	7,720.70	7,580.61	68.50	33.64	89.27	424.01	1,076.14	2,679.92	2,595.11	84.81	31.600	
11,600.00	7,618.00	7,720.17	7,580.09	68.75	33.64	89.25	424.01	1,076.14	2,741.22	2,655.82	85.40	32.097	
11,700.00	7,618.00	7,719.64	7,579.55	69.06	33.63	89.24	424.01	1,076.15	2,804.75	2,718.80	85.95	32.633	
11,800.00	7,618.00	7,719.10	7,579.02	69.44	33.63	89.22	424.00	1,076.15	2,870.36	2,783.91	86.44	33.205	
11,900.00	7,618.00	7,718.56	7,578.48	69.88	33.63	89.21	424.00	1,076.16	2,937.90	2,851.01	86.89	33.810	
12,000.00	7,618.00	7,718.02	7,577.94	70.39	33.63	89.20	424.00	1,076.16	3,007.25	2,919.95	87.30	34.446	
12,100.00	7,618.00	7,717.47	7,577.39	70.97	33.63	89.18	424.00	1,076.17	3,078.29	2,990.62	87.67	35.111	
12,200.00	7,618.00	7,716.92	7,576.84	71.63	33.63	89.17	423.99	1,076.17	3,150.91	3,062.90	88.01	35.802	
12,300.00	7,618.00	7,716.37	7,576.28	72.35	33.63	89.15	423.99	1,076.18	3,224.99	3,136.67	88.31	36.518	
12,400.00	7,618.00	7,715.81	7,575.72	73.15	33.62	89.14	423.99	1,076.19	3,300.43	3,211.84	88.59	37.257	
12,500.00	7,618.00	7,715.24	7,575.16	74.01	33.62	89.12	423.99	1,076.19	3,377.15	3,288.32	88.83	38.017	
12,600.00	7,618.00	7,714.68	7,574.59	74.93	33.62	89.11	423.98	1,076.20	3,455.07	3,366.01	89.06	38.797	
12,700.00	7,618.00	7,714.10	7,574.02	75.91	33.62	89.09	423.98	1,076.20	3,534.09	3,444.83	89.26	39.595	
12,800.00	7,618.00	7,713.53	7,573.44	76.95	33.62	89.08	423.98	1,076.21	3,614.15	3,524.72	89.44	40.411	
12,900.00	7,618.00	7,712.95	7,572.86	78.04	33.62	89.06	423.97	1,076.21	3,695.19	3,605.59	89.60	41.242	
13,000.00	7,618.00	7,712.36	7,572.28	79.16	33.62	89.04	423.97	1,076.22	3,777.13	3,687.39	89.74	42.088	
13,100.00	7,618.00	7,711.77	7,571.69	80.33	33.61	89.03	423.97	1,076.22	3,859.93	3,770.05	89.87	42.948	
13,200.00	7,618.00	7,711.18	7,571.09	81.54	33.61	89.01	423.97	1,076.23	3,943.52	3,853.53	89.99	43.822	
13,300.00	7,618.00	7,710.58	7,570.50	82.78	33.61	89.00	423.96	1,076.23	4,027.86	3,937.77	90.10	44.707	
13,400.00	7,618.00	7,709.98	7,569.89	84.05	33.61	88.98	423.96	1,076.24	4,112.90	4,022.71	90.19	45.603	
13,500.00	7,618.00	7,709.37	7,569.28	85.35	33.61	88.96	423.96	1,076.25	4,198.60	4,108.33	90.27	46.510	
13,600.00	7,618.00	7,708.76	7,568.67	86.67	33.61	88.95	423.95	1,076.25	4,284.93	4,194.58	90.35	47.427	
13,700.00	7,618.00	7,708.14	7,568.06	88.02	33.60	88.93	423.95	1,076.26	4,371.83	4,281.41	90.42	48.353	
13,800.00	7,618.00	7,707.52	7,567.43	89.38	33.60	88.91	423.95	1,076.26	4,459.28	4,368.81	90.48	49.287	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,900.00	7,618.00	7,706.89	7,566.81	90.77	33.60	88.90	423.94	1,076.27	4,547.25	4,456.72	90.53	50.230	
14,000.00	7,618.00	7,706.26	7,566.18	92.17	33.60	88.88	423.94	1,076.28	4,635.71	4,545.13	90.58	51.180	
14,100.00	7,618.00	7,705.62	7,565.54	93.59	33.60	88.86	423.94	1,076.28	4,724.63	4,634.01	90.62	52.137	
14,200.00	7,618.00	7,704.98	7,564.90	95.02	33.60	88.85	423.93	1,076.29	4,813.98	4,723.32	90.66	53.100	
14,300.00	7,618.00	7,704.33	7,564.25	96.47	33.59	88.83	423.93	1,076.29	4,903.75	4,813.05	90.69	54.070	
14,400.00	7,618.00	7,703.68	7,563.60	97.93	33.59	88.81	423.93	1,076.30	4,993.90	4,903.18	90.72	55.046	
14,500.00	7,618.00	7,703.03	7,562.94	99.41	33.59	88.79	423.92	1,076.31	5,084.42	4,993.67	90.75	56.027	
14,600.00	7,618.00	7,702.36	7,562.28	100.89	33.59	88.78	423.92	1,076.31	5,175.29	5,084.52	90.77	57.014	
14,700.00	7,618.00	7,701.70	7,561.61	102.38	33.59	88.76	423.92	1,076.32	5,266.49	5,175.70	90.79	58.005	
14,800.00	7,618.00	7,701.02	7,560.94	103.89	33.59	88.74	423.91	1,076.33	5,358.01	5,267.19	90.81	59.000	
14,900.00	7,618.00	7,700.34	7,560.26	105.40	33.58	88.72	423.91	1,076.33	5,449.82	5,358.99	90.83	60.000	
15,000.00	7,618.00	7,699.66	7,559.58	106.92	33.58	88.70	423.91	1,076.34	5,541.92	5,451.07	90.85	61.004	
15,100.00	7,618.00	7,698.97	7,558.89	108.45	33.58	88.69	423.90	1,076.35	5,634.28	5,543.42	90.86	62.011	
15,200.00	7,618.00	7,698.27	7,558.19	109.99	33.58	88.67	423.90	1,076.35	5,726.90	5,636.03	90.87	63.022	
15,300.00	7,618.00	7,697.57	7,557.49	111.54	33.58	88.65	423.89	1,076.36	5,819.77	5,728.89	90.88	64.036	
15,400.00	7,618.00	7,696.87	7,556.78	113.09	33.57	88.63	423.89	1,076.37	5,912.87	5,821.98	90.89	65.053	
15,500.00	7,618.00	7,696.15	7,556.07	114.65	33.57	88.61	423.89	1,076.37	6,006.19	5,915.29	90.90	66.073	
15,600.00	7,618.00	7,695.43	7,555.35	116.21	33.57	88.59	423.88	1,076.38	6,099.72	6,008.81	90.91	67.096	
15,700.00	7,618.00	7,694.71	7,554.63	117.78	33.57	88.57	423.88	1,076.39	6,193.46	6,102.54	90.92	68.121	
15,800.00	7,618.00	7,693.98	7,553.89	119.36	33.57	88.55	423.87	1,076.40	6,287.38	6,196.46	90.93	69.148	
15,900.00	7,618.00	7,693.24	7,553.16	120.94	33.56	88.53	423.87	1,076.40	6,381.50	6,290.56	90.93	70.177	
16,000.00	7,618.00	7,692.50	7,552.41	122.53	33.56	88.51	423.87	1,076.41	6,475.78	6,384.84	90.94	71.209	
16,100.00	7,618.00	7,691.75	7,551.66	124.12	33.56	88.49	423.86	1,076.42	6,570.24	6,479.29	90.95	72.242	
16,200.00	7,618.00	7,690.99	7,550.91	125.72	33.56	88.47	423.86	1,076.43	6,664.86	6,573.91	90.95	73.277	
16,300.00	7,618.00	7,690.23	7,550.14	127.32	33.56	88.45	423.85	1,076.43	6,759.63	6,668.67	90.96	74.314	
16,400.00	7,618.00	7,689.46	7,549.38	128.93	33.55	88.43	423.85	1,076.44	6,854.56	6,763.59	90.97	75.352	
16,500.00	7,618.00	7,688.68	7,548.60	130.54	33.55	88.41	423.84	1,076.45	6,949.62	6,858.65	90.97	76.391	
16,600.00	7,618.00	7,687.90	7,547.82	132.15	33.55	88.39	423.84	1,076.46	7,044.82	6,953.84	90.98	77.432	
16,700.00	7,618.00	7,687.11	7,547.03	133.77	33.55	88.37	423.83	1,076.46	7,140.15	7,049.17	90.99	78.474	
16,800.00	7,618.00	7,686.31	7,546.23	135.39	33.55	88.35	423.83	1,076.47	7,235.61	7,144.62	91.00	79.516	
16,900.00	7,618.00	7,685.51	7,545.43	137.01	33.54	88.33	423.83	1,076.48	7,331.19	7,240.19	91.00	80.560	
17,000.00	7,618.00	7,684.70	7,544.62	138.64	33.54	88.30	423.82	1,076.49	7,426.89	7,335.88	91.01	81.605	
17,100.00	7,618.00	7,683.88	7,543.80	140.27	33.54	88.28	423.82	1,076.50	7,522.69	7,431.68	91.02	82.650	
17,200.00	7,618.00	7,683.05	7,542.97	141.91	33.54	88.26	423.81	1,076.51	7,618.61	7,527.58	91.03	83.696	
17,300.00	7,618.00	7,682.22	7,542.14	143.55	33.54	88.24	423.81	1,076.51	7,714.63	7,623.59	91.04	84.742	
17,400.00	7,618.00	7,681.38	7,541.30	145.19	33.53	88.22	423.80	1,076.52	7,810.75	7,719.70	91.05	85.789	
17,500.00	7,618.00	7,680.53	7,540.45	146.83	33.53	88.19	423.80	1,076.53	7,906.96	7,815.91	91.06	86.836	
17,600.00	7,618.00	7,679.68	7,539.59	148.48	33.53	88.17	423.79	1,076.54	8,003.27	7,912.20	91.07	87.884	
17,700.00	7,618.00	7,678.81	7,538.73	150.13	33.53	88.15	423.79	1,076.55	8,099.67	8,008.59	91.08	88.932	
17,800.00	7,618.00	7,677.94	7,537.86	151.78	33.52	88.12	423.78	1,076.56	8,196.15	8,105.06	91.09	89.980	
17,900.00	7,618.00	7,677.06	7,536.98	153.43	33.52	88.10	423.77	1,076.57	8,292.72	8,201.62	91.10	91.029	
18,000.00	7,618.00	7,676.17	7,536.09	155.09	33.52	88.08	423.77	1,076.58	8,389.36	8,298.25	91.11	92.077	
18,100.00	7,618.00	7,675.28	7,535.20	156.75	33.52	88.05	423.76	1,076.59	8,486.09	8,394.96	91.13	93.125	
18,200.00	7,618.00	7,674.37	7,534.29	158.41	33.52	88.03	423.76	1,076.59	8,582.89	8,491.75	91.14	94.174	
18,300.00	7,618.00	7,673.46	7,533.38	160.07	33.51	88.00	423.75	1,076.60	8,679.76	8,588.61	91.15	95.222	
18,400.00	7,618.00	7,672.54	7,532.46	161.74	33.51	87.98	423.75	1,076.61	8,776.70	8,685.54	91.17	96.270	
18,500.00	7,618.00	7,672.00	7,531.92	163.41	33.51	87.96	423.74	1,076.62	8,873.71	8,782.53	91.18	97.318	
18,600.00	7,618.00	7,672.00	7,531.92	165.08	33.51	87.96	423.74	1,076.62	8,970.79	8,879.59	91.20	98.364	
18,700.00	7,618.00	7,672.00	7,531.92	166.75	33.51	87.96	423.74	1,076.62	9,067.93	8,976.71	91.22	99.410	
18,711.30	7,618.00	7,672.00	7,531.92	166.94	33.51	87.96	423.74	1,076.62	9,078.91	8,987.69	91.22	99.529	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	15,353.00	7,799.48	0.00	138.96	68.31	1,834.80	4,613.84	9,365.95				
100.00	100.00	15,353.00	7,799.48	0.13	138.96	68.31	1,834.80	4,613.84	9,281.32	9,192.92	88.39	105.000	
200.00	200.00	15,353.00	7,799.48	0.49	138.96	68.31	1,834.80	4,613.84	9,196.98	9,108.18	88.81	103.563	
300.00	300.00	15,353.00	7,799.48	0.85	138.96	68.31	1,834.80	4,613.84	9,112.97	9,023.72	89.25	102.107	
400.00	400.00	15,353.00	7,799.48	1.21	138.96	68.31	1,834.80	4,613.84	9,029.28	8,939.56	89.72	100.634	
500.00	500.00	15,353.00	7,799.48	1.57	138.96	68.31	1,834.80	4,613.84	8,945.93	8,855.70	90.23	99.146	
600.00	600.00	15,353.00	7,799.48	1.93	138.96	68.31	1,834.80	4,613.84	8,862.92	8,772.16	90.76	97.648	
700.00	700.00	15,353.00	7,799.48	2.29	138.96	68.31	1,834.80	4,613.84	8,780.26	8,688.94	91.32	96.143	
800.00	800.00	15,353.00	7,799.48	2.64	138.96	68.31	1,834.80	4,613.84	8,697.97	8,606.06	91.91	94.634	
900.00	900.00	15,353.00	7,799.48	3.00	138.96	68.31	1,834.80	4,613.84	8,616.06	8,523.54	92.52	93.124	
1,000.00	999.98	15,353.00	7,799.48	3.36	138.96	11.70	1,834.80	4,613.84	8,533.55	8,440.39	93.16	91.606	
1,100.00	1,099.84	15,353.00	7,799.48	3.71	138.96	12.35	1,834.80	4,613.84	8,449.50	8,355.71	93.79	90.087	
1,200.00	1,199.45	15,353.00	7,799.48	4.07	138.96	13.07	1,834.80	4,613.84	8,363.99	8,269.57	94.42	88.584	
1,300.00	1,298.70	15,353.00	7,799.48	4.44	138.96	13.89	1,834.80	4,613.84	8,277.05	8,182.02	95.03	87.099	
1,400.00	1,397.47	15,353.00	7,799.48	4.82	138.96	14.83	1,834.80	4,613.84	8,188.77	8,093.14	95.63	85.632	
1,500.00	1,495.62	15,353.00	7,799.48	5.22	138.96	15.89	1,834.80	4,613.84	8,099.20	8,002.99	96.21	84.185	
1,600.00	1,593.06	15,353.00	7,799.48	5.65	138.96	17.12	1,834.80	4,613.84	8,008.41	7,911.64	96.77	82.758	
1,700.00	1,689.64	15,353.00	7,799.48	6.11	138.96	18.56	1,834.80	4,613.84	7,916.47	7,819.15	97.31	81.352	
1,800.00	1,785.27	15,353.00	7,799.48	6.61	138.96	20.24	1,834.80	4,613.84	7,823.45	7,725.62	97.83	79.966	
1,900.00	1,879.82	15,353.00	7,799.48	7.15	138.96	22.24	1,834.80	4,613.84	7,729.44	7,631.10	98.34	78.603	
2,000.00	1,973.17	15,353.00	7,799.48	7.73	138.96	24.64	1,834.80	4,613.84	7,634.50	7,535.69	98.81	77.261	
2,100.00	2,065.21	15,353.00	7,799.48	8.37	138.96	27.57	1,834.80	4,613.84	7,538.73	7,439.46	99.27	75.941	
2,200.00	2,155.84	15,353.00	7,799.48	9.07	138.96	31.19	1,834.80	4,613.84	7,442.22	7,342.51	99.70	74.645	
2,300.00	2,244.94	15,353.00	7,799.48	9.82	138.96	35.74	1,834.80	4,613.84	7,345.04	7,244.93	100.11	73.372	
2,400.00	2,332.39	15,353.00	7,799.48	10.64	138.96	41.51	1,834.80	4,613.84	7,247.30	7,146.81	100.49	72.122	
2,500.00	2,418.11	15,353.00	7,799.48	11.53	138.96	48.90	1,834.80	4,613.84	7,149.09	7,048.25	100.84	70.897	
2,558.91	2,467.74	15,353.00	7,799.48	12.08	138.96	54.18	1,834.80	4,613.84	7,091.06	6,990.03	101.03	70.186	
2,600.00	2,502.13	15,353.00	7,799.48	12.47	138.96	54.18	1,834.80	4,613.84	7,050.55	6,949.38	101.16	69.694	
2,700.00	2,585.83	15,353.00	7,799.48	13.45	138.96	54.18	1,834.80	4,613.84	6,951.98	6,850.49	101.49	68.497	
2,800.00	2,669.53	15,353.00	7,799.48	14.44	138.96	54.18	1,834.80	4,613.84	6,853.46	6,751.62	101.83	67.300	
2,900.00	2,753.22	15,353.00	7,799.48	15.46	138.96	54.18	1,834.80	4,613.84	6,754.97	6,652.79	102.19	66.103	
3,000.00	2,836.92	15,353.00	7,799.48	16.48	138.96	54.18	1,834.80	4,613.84	6,656.54	6,553.98	102.56	64.906	
3,100.00	2,920.62	15,353.00	7,799.48	17.52	138.96	54.18	1,834.80	4,613.84	6,558.15	6,455.21	102.94	63.709	
3,200.00	3,004.32	15,353.00	7,799.48	18.56	138.96	54.18	1,834.80	4,613.84	6,459.81	6,356.47	103.34	62.513	
3,300.00	3,088.01	15,353.00	7,799.48	19.61	138.96	54.18	1,834.80	4,613.84	6,361.52	6,257.78	103.75	61.317	
3,400.00	3,171.71	15,353.00	7,799.48	20.67	138.96	54.18	1,834.80	4,613.84	6,263.29	6,159.12	104.17	60.123	
3,500.00	3,255.41	15,353.00	7,799.48	21.73	138.96	54.18	1,834.80	4,613.84	6,165.11	6,060.50	104.62	58.930	
3,600.00	3,339.10	15,353.00	7,799.48	22.80	138.96	54.18	1,834.80	4,613.84	6,067.00	5,961.92	105.08	57.739	
3,700.00	3,422.80	15,353.00	7,799.48	23.87	138.96	54.18	1,834.80	4,613.84	5,968.94	5,863.39	105.55	56.550	
3,800.00	3,506.50	15,353.00	7,799.48	24.94	138.96	54.18	1,834.80	4,613.84	5,870.95	5,764.91	106.04	55.364	
3,900.00	3,590.20	15,353.00	7,799.48	26.02	138.96	54.18	1,834.80	4,613.84	5,773.03	5,666.48	106.55	54.179	
4,000.00	3,673.89	15,353.00	7,799.48	27.10	138.96	54.18	1,834.80	4,613.84	5,675.19	5,568.10	107.08	52.998	
4,100.00	3,757.59	15,353.00	7,799.48	28.18	138.96	54.18	1,834.80	4,613.84	5,577.42	5,469.79	107.63	51.819	
4,200.00	3,841.29	15,353.00	7,799.48	29.26	138.96	54.18	1,834.80	4,613.84	5,479.73	5,371.53	108.20	50.644	
4,300.00	3,924.99	15,353.00	7,799.48	30.35	138.96	54.18	1,834.80	4,613.84	5,382.12	5,273.33	108.79	49.472	
4,400.00	4,008.68	15,353.00	7,799.48	31.44	138.96	54.18	1,834.80	4,613.84	5,284.61	5,175.20	109.40	48.304	
4,500.00	4,092.38	15,353.00	7,799.48	32.52	138.96	54.18	1,834.80	4,613.84	5,187.18	5,077.15	110.04	47.140	
4,600.00	4,176.08	15,353.00	7,799.48	33.62	138.96	54.18	1,834.80	4,613.84	5,089.86	4,979.17	110.70	45.981	
4,700.00	4,259.77	15,353.00	7,799.48	34.71	138.96	54.18	1,834.80	4,613.84	4,992.65	4,881.27	111.38	44.826	
4,800.00	4,343.47	15,353.00	7,799.48	35.80	138.96	54.18	1,834.80	4,613.84	4,895.54	4,783.45	112.09	43.675	
4,900.00	4,427.17	15,353.00	7,799.48	36.89	138.96	54.18	1,834.80	4,613.84	4,798.56	4,685.73	112.83	42.530	
5,000.00	4,510.87	15,353.00	7,799.48	37.99	138.96	54.18	1,834.80	4,613.84	4,701.70	4,588.11	113.59	41.390	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	15,353.00	7,799.48	39.08	138.96	54.18	1,834.80	4,613.84	4,604.98	4,490.59	114.39	40.256	
5,200.00	4,678.26	15,353.00	7,799.48	40.18	138.96	54.18	1,834.80	4,613.84	4,508.40	4,393.18	115.22	39.128	
5,300.00	4,761.96	15,353.00	7,799.48	41.28	138.96	54.18	1,834.80	4,613.84	4,411.97	4,295.88	116.09	38.006	
5,400.00	4,845.66	15,353.00	7,799.48	42.37	138.96	54.18	1,834.80	4,613.84	4,315.70	4,198.72	116.99	36.890	
5,500.00	4,929.35	15,353.00	7,799.48	43.47	138.96	54.18	1,834.80	4,613.84	4,219.61	4,101.69	117.93	35.781	
5,600.00	5,013.05	15,353.00	7,799.48	44.57	138.96	54.18	1,834.80	4,613.84	4,123.71	4,004.80	118.91	34.680	
5,700.00	5,096.75	15,353.00	7,799.48	45.67	138.96	54.18	1,834.80	4,613.84	4,028.00	3,908.07	119.93	33.586	
5,800.00	5,180.45	15,353.00	7,799.48	46.77	138.96	54.18	1,834.80	4,613.84	3,932.51	3,811.51	121.00	32.501	
5,900.00	5,264.14	15,353.00	7,799.48	47.87	138.96	54.18	1,834.80	4,613.84	3,837.24	3,715.13	122.11	31.423	
6,000.00	5,347.84	15,353.00	7,799.48	48.97	138.96	54.18	1,834.80	4,613.84	3,742.23	3,618.94	123.28	30.355	
6,100.00	5,431.54	15,353.00	7,799.48	50.07	138.96	54.18	1,834.80	4,613.84	3,647.48	3,522.97	124.51	29.296	
6,200.00	5,515.23	15,353.00	7,799.48	51.17	138.96	54.18	1,834.80	4,613.84	3,553.01	3,427.23	125.79	28.246	
6,300.00	5,598.93	15,353.00	7,799.48	52.27	138.96	54.18	1,834.80	4,613.84	3,458.86	3,331.73	127.13	27.207	
6,400.00	5,682.63	15,353.00	7,799.48	53.38	138.96	54.18	1,834.80	4,613.84	3,365.05	3,236.51	128.54	26.179	
6,500.00	5,766.33	15,353.00	7,799.48	54.48	138.96	54.18	1,834.80	4,613.84	3,271.60	3,141.58	130.02	25.162	
6,600.00	5,850.02	15,353.00	7,799.48	55.58	138.96	54.18	1,834.80	4,613.84	3,178.55	3,046.98	131.58	24.157	
6,700.00	5,933.72	15,353.00	7,799.48	56.68	138.96	54.18	1,834.80	4,613.84	3,085.94	2,952.72	133.22	23.165	
6,800.00	6,017.42	15,353.00	7,799.48	57.79	138.96	54.18	1,834.80	4,613.84	2,993.80	2,858.86	134.94	22.186	
6,900.00	6,101.12	15,353.00	7,799.48	58.89	138.96	54.18	1,834.80	4,613.84	2,902.19	2,765.43	136.76	21.221	
7,000.00	6,184.81	15,353.00	7,799.48	59.99	138.96	54.18	1,834.80	4,613.84	2,811.14	2,672.47	138.67	20.272	
7,100.00	6,268.51	15,353.00	7,799.48	61.10	138.96	54.18	1,834.80	4,613.84	2,720.72	2,580.03	140.69	19.338	
7,200.00	6,352.21	15,353.00	7,799.48	62.20	138.96	54.18	1,834.80	4,613.84	2,631.00	2,488.17	142.83	18.421	
7,300.00	6,435.90	15,353.00	7,799.48	63.31	138.96	54.18	1,834.80	4,613.84	2,542.04	2,396.97	145.08	17.522	
7,400.00	6,519.60	15,353.00	7,799.48	64.41	138.96	54.18	1,834.80	4,613.84	2,453.94	2,306.48	147.45	16.642	
7,500.00	6,603.30	15,353.00	7,799.48	65.51	138.96	54.18	1,834.80	4,613.84	2,366.78	2,216.82	149.96	15.783	
7,600.00	6,687.00	15,353.00	7,799.48	66.62	138.96	54.18	1,834.80	4,613.84	2,280.67	2,128.06	152.61	14.945	
7,700.00	6,770.69	15,353.00	7,799.48	67.72	138.96	54.18	1,834.80	4,613.84	2,195.74	2,040.34	155.40	14.130	
7,800.00	6,854.39	15,353.00	7,799.48	68.83	138.96	54.18	1,834.80	4,613.84	2,112.13	1,953.80	158.34	13.339	
7,900.00	6,938.09	15,330.82	7,799.68	69.93	138.57	53.26	1,856.98	4,613.47	2,029.89	1,869.31	160.58	12.641	
7,933.18	6,965.86	15,320.98	7,799.77	70.30	138.40	52.84	1,866.82	4,613.31	2,002.86	1,841.61	161.26	12.420	
7,950.00	6,980.00	15,316.23	7,799.81	70.49	138.32	48.15	1,871.57	4,613.23	1,989.16	1,827.56	161.60	12.309	
8,000.00	7,022.68	15,304.93	7,799.91	71.01	138.12	33.20	1,882.86	4,613.05	1,948.06	1,785.38	162.68	11.975	
8,050.00	7,066.06	15,298.08	7,799.98	71.51	138.00	17.18	1,889.87	4,612.93	1,906.72	1,742.90	163.81	11.639	
8,100.00	7,109.82	15,300.75	7,800.00	71.97	138.05	0.77	1,892.54	4,612.88	1,865.47	1,700.40	165.08	11.301	
8,150.00	7,153.63	15,299.06	7,799.99	72.38	138.02	-15.24	1,890.86	4,612.91	1,824.68	1,658.45	166.23	10.977	
8,200.00	7,197.14	15,302.97	7,799.93	72.74	138.09	-30.11	1,884.83	4,613.01	1,784.68	1,617.25	167.44	10.659	
8,250.00	7,240.04	15,313.30	7,799.84	73.05	138.27	-43.36	1,874.49	4,613.18	1,745.80	1,577.12	168.69	10.349	
8,300.00	7,281.99	15,327.86	7,799.71	73.31	138.52	-54.80	1,859.94	4,613.43	1,708.35	1,538.40	169.95	10.052	
8,350.00	7,322.67	15,346.52	7,799.54	73.52	138.84	-64.45	1,841.28	4,613.74	1,672.60	1,501.39	171.20	9.770	
8,400.00	7,361.77	15,353.00	7,799.48	73.68	138.96	-73.04	1,834.80	4,613.84	1,638.88	1,467.16	171.72	9.544	
8,450.00	7,399.01	15,353.00	7,799.48	73.78	138.96	-80.40	1,834.80	4,613.84	1,607.76	1,436.04	171.72	9.363	
8,500.00	7,434.08	15,353.00	7,799.48	73.85	138.96	-86.49	1,834.80	4,613.84	1,579.63	1,408.17	171.46	9.213	
8,550.00	7,466.74	15,353.00	7,799.48	73.87	138.96	-91.46	1,834.80	4,613.84	1,554.89	1,383.93	170.96	9.095	
8,600.00	7,496.72	15,353.00	7,799.48	73.85	138.96	-95.48	1,834.80	4,613.84	1,533.88	1,363.68	170.20	9.012	
8,650.00	7,523.80	15,353.00	7,799.48	73.79	138.96	-98.67	1,834.80	4,613.84	1,516.93	1,347.71	169.22	8.964	
8,700.00	7,547.77	15,353.00	7,799.48	73.70	138.96	-101.12	1,834.80	4,613.84	1,504.30	1,336.27	168.02	8.953	SF
8,750.00	7,568.45	15,353.00	7,799.48	73.58	138.96	-102.92	1,834.80	4,613.84	1,496.20	1,329.54	166.66	8.977	
8,800.00	7,585.69	15,353.00	7,799.48	73.43	138.96	-104.10	1,834.80	4,613.84	1,492.76	1,327.59	165.17	9.038	ES
8,811.38	7,589.12	15,353.00	7,799.48	73.39	138.96	-104.29	1,834.80	4,613.84	1,492.64	1,327.82	164.82	9.056	CC
8,850.00	7,599.35	15,353.00	7,799.48	73.26	138.96	-104.72	1,834.80	4,613.84	1,494.05	1,330.44	163.61	9.132	
8,900.00	7,609.33	15,353.00	7,799.48	73.07	138.96	-104.79	1,834.80	4,613.84	1,500.04	1,338.02	162.01	9.259	
8,950.00	7,615.55	15,353.00	7,799.48	72.87	138.96	-104.31	1,834.80	4,613.84	1,510.63	1,350.19	160.44	9.416	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	15,353.00	7,799.48	72.65	138.96	-103.26	1,834.80	4,613.84	1,525.64	1,366.73	158.91	9.601	
9,006.60	7,618.00	15,353.00	7,799.48	72.62	138.96	-103.08	1,834.80	4,613.84	1,527.95	1,369.23	158.71	9.627	
9,100.00	7,618.00	15,353.00	7,799.48	72.22	138.96	-103.08	1,834.80	4,613.84	1,563.46	1,407.27	156.18	10.010	
9,200.00	7,618.00	15,353.00	7,799.48	71.80	138.96	-103.08	1,834.80	4,613.84	1,606.63	1,452.66	153.98	10.434	
9,300.00	7,618.00	15,353.00	7,799.48	71.41	138.96	-103.08	1,834.80	4,613.84	1,654.73	1,502.55	152.18	10.873	
9,400.00	7,618.00	15,353.00	7,799.48	71.04	138.96	-103.08	1,834.80	4,613.84	1,707.34	1,556.66	150.68	11.331	
9,500.00	7,618.00	15,353.00	7,799.48	70.68	138.96	-103.08	1,834.80	4,613.84	1,764.06	1,614.69	149.37	11.810	
9,600.00	7,618.00	15,353.00	7,799.48	70.35	138.96	-103.08	1,834.80	4,613.84	1,824.49	1,676.32	148.18	12.313	
9,700.00	7,618.00	15,353.00	7,799.48	70.04	138.96	-103.08	1,834.80	4,613.84	1,888.29	1,741.25	147.04	12.842	
9,800.00	7,618.00	15,353.00	7,799.48	69.75	138.96	-103.08	1,834.80	4,613.84	1,955.13	1,809.17	145.95	13.396	
9,900.00	7,618.00	15,353.00	7,799.48	69.47	138.96	-103.08	1,834.80	4,613.84	2,024.70	1,879.81	144.89	13.974	
10,000.00	7,618.00	15,353.00	7,799.48	69.22	138.96	-103.08	1,834.80	4,613.84	2,096.73	1,952.90	143.83	14.577	
10,100.00	7,618.00	15,353.00	7,799.48	68.99	138.96	-103.08	1,834.80	4,613.84	2,170.98	2,028.18	142.80	15.203	
10,200.00	7,618.00	15,353.00	7,799.48	68.78	138.96	-103.08	1,834.80	4,613.84	2,247.23	2,105.44	141.78	15.850	
10,300.00	7,618.00	15,353.00	7,799.48	68.59	138.96	-103.08	1,834.80	4,613.84	2,325.28	2,184.49	140.79	16.516	
10,400.00	7,618.00	15,353.00	7,799.48	68.42	138.96	-103.08	1,834.80	4,613.84	2,404.95	2,265.14	139.81	17.201	
10,500.00	7,618.00	15,353.00	7,799.48	68.28	138.96	-103.08	1,834.80	4,613.84	2,486.09	2,347.23	138.86	17.904	
10,600.00	7,618.00	15,353.00	7,799.48	68.16	138.96	-103.08	1,834.80	4,613.84	2,568.57	2,430.63	137.94	18.621	
10,700.00	7,618.00	15,353.00	7,799.48	68.06	138.96	-103.08	1,834.80	4,613.84	2,652.25	2,515.21	137.04	19.354	
10,800.00	7,618.00	15,353.00	7,799.48	67.99	138.96	-103.08	1,834.80	4,613.84	2,737.02	2,600.85	136.18	20.099	
10,900.00	7,618.00	15,353.00	7,799.48	67.95	138.96	-103.08	1,834.80	4,613.84	2,822.79	2,687.45	135.34	20.857	
11,000.00	7,618.00	15,353.00	7,799.48	67.95	138.96	-103.08	1,834.80	4,613.84	2,909.47	2,774.94	134.54	21.626	
11,100.00	7,618.00	15,353.00	7,799.48	67.97	138.96	-103.08	1,834.80	4,613.84	2,996.98	2,863.22	133.76	22.405	
11,200.00	7,618.00	15,353.00	7,799.48	68.04	138.96	-103.08	1,834.80	4,613.84	3,085.25	2,952.24	133.02	23.194	
11,300.00	7,618.00	15,353.00	7,799.48	68.15	138.96	-103.08	1,834.80	4,613.84	3,174.22	3,041.91	132.31	23.992	
11,400.00	7,618.00	15,353.00	7,799.48	68.30	138.96	-103.08	1,834.80	4,613.84	3,263.82	3,132.20	131.62	24.797	
11,500.00	7,618.00	15,353.00	7,799.48	68.50	138.96	-103.08	1,834.80	4,613.84	3,354.02	3,223.05	130.97	25.609	
11,600.00	7,618.00	15,353.00	7,799.48	68.75	138.96	-103.08	1,834.80	4,613.84	3,444.75	3,314.41	130.34	26.429	
11,700.00	7,618.00	15,353.00	7,799.48	69.06	138.96	-103.08	1,834.80	4,613.84	3,535.98	3,406.24	129.74	27.254	
11,800.00	7,618.00	15,353.00	7,799.48	69.44	138.96	-103.08	1,834.80	4,613.84	3,627.68	3,498.51	129.17	28.085	
11,900.00	7,618.00	15,353.00	7,799.48	69.88	138.96	-103.08	1,834.80	4,613.84	3,719.80	3,591.18	128.62	28.921	
12,000.00	7,618.00	15,353.00	7,799.48	70.39	138.96	-103.08	1,834.80	4,613.84	3,812.32	3,684.23	128.10	29.762	
12,100.00	7,618.00	15,353.00	7,799.48	70.97	138.96	-103.08	1,834.80	4,613.84	3,905.21	3,777.62	127.59	30.607	
12,200.00	7,618.00	15,353.00	7,799.48	71.63	138.96	-103.08	1,834.80	4,613.84	3,998.44	3,871.33	127.11	31.455	
12,300.00	7,618.00	15,353.00	7,799.48	72.35	138.96	-103.08	1,834.80	4,613.84	4,092.00	3,965.34	126.66	32.308	
12,400.00	7,618.00	15,353.00	7,799.48	73.15	138.96	-103.08	1,834.80	4,613.84	4,185.85	4,059.63	126.22	33.163	
12,500.00	7,618.00	15,353.00	7,799.48	74.01	138.96	-103.08	1,834.80	4,613.84	4,279.98	4,154.17	125.80	34.022	
12,600.00	7,618.00	15,353.00	7,799.48	74.93	138.96	-103.08	1,834.80	4,613.84	4,374.36	4,248.96	125.40	34.883	
12,700.00	7,618.00	15,353.00	7,799.48	75.91	138.96	-103.08	1,834.80	4,613.84	4,469.00	4,343.98	125.02	35.747	
12,800.00	7,618.00	15,353.00	7,799.48	76.95	138.96	-103.08	1,834.80	4,613.84	4,563.86	4,439.21	124.65	36.612	
12,900.00	7,618.00	15,353.00	7,799.48	78.04	138.96	-103.08	1,834.80	4,613.84	4,658.94	4,534.63	124.30	37.480	
13,000.00	7,618.00	15,353.00	7,799.48	79.16	138.96	-103.08	1,834.80	4,613.84	4,754.22	4,630.25	123.97	38.350	
13,100.00	7,618.00	15,353.00	7,799.48	80.33	138.96	-103.08	1,834.80	4,613.84	4,849.69	4,726.03	123.65	39.221	
13,200.00	7,618.00	15,353.00	7,799.48	81.54	138.96	-103.08	1,834.80	4,613.84	4,945.33	4,821.99	123.34	40.094	
13,300.00	7,618.00	15,353.00	7,799.48	82.78	138.96	-103.08	1,834.80	4,613.84	5,041.15	4,918.10	123.05	40.967	
13,400.00	7,618.00	15,353.00	7,799.48	84.05	138.96	-103.08	1,834.80	4,613.84	5,137.13	5,014.35	122.77	41.843	
13,500.00	7,618.00	15,353.00	7,799.48	85.35	138.96	-103.08	1,834.80	4,613.84	5,233.25	5,110.75	122.51	42.719	
13,600.00	7,618.00	15,353.00	7,799.48	86.67	138.96	-103.08	1,834.80	4,613.84	5,329.52	5,207.27	122.25	43.595	
13,700.00	7,618.00	15,353.00	7,799.48	88.02	138.96	-103.08	1,834.80	4,613.84	5,425.93	5,303.92	122.00	44.473	
13,800.00	7,618.00	15,353.00	7,799.48	89.38	138.96	-103.08	1,834.80	4,613.84	5,522.46	5,400.69	121.77	45.352	
13,900.00	7,618.00	15,353.00	7,799.48	90.77	138.96	-103.08	1,834.80	4,613.84	5,619.12	5,497.57	121.55	46.230	
14,000.00	7,618.00	15,353.00	7,799.48	92.17	138.96	-103.08	1,834.80	4,613.84	5,715.88	5,594.55	121.33	47.110	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,618.00	15,353.00	7,799.48	93.59	138.96	-103.08	1,834.80	4,613.84	5,812.76	5,691.64	121.13	47.990	
14,200.00	7,618.00	15,353.00	7,799.48	95.02	138.96	-103.08	1,834.80	4,613.84	5,909.75	5,788.82	120.93	48.870	
14,300.00	7,618.00	15,353.00	7,799.48	96.47	138.96	-103.08	1,834.80	4,613.84	6,006.83	5,886.09	120.74	49.750	
14,400.00	7,618.00	15,353.00	7,799.48	97.93	138.96	-103.08	1,834.80	4,613.84	6,104.00	5,983.44	120.56	50.631	
14,500.00	7,618.00	15,353.00	7,799.48	99.41	138.96	-103.08	1,834.80	4,613.84	6,201.27	6,080.88	120.39	51.511	
14,600.00	7,618.00	15,353.00	7,799.48	100.89	138.96	-103.08	1,834.80	4,613.84	6,298.62	6,178.40	120.22	52.392	
14,700.00	7,618.00	15,353.00	7,799.48	102.38	138.96	-103.08	1,834.80	4,613.84	6,396.05	6,275.99	120.06	53.272	
14,800.00	7,618.00	15,353.00	7,799.48	103.89	138.96	-103.08	1,834.80	4,613.84	6,493.56	6,373.65	119.91	54.153	
14,900.00	7,618.00	15,353.00	7,799.48	105.40	138.96	-103.08	1,834.80	4,613.84	6,591.15	6,471.38	119.77	55.033	
15,000.00	7,618.00	15,353.00	7,799.48	106.92	138.96	-103.08	1,834.80	4,613.84	6,688.80	6,569.18	119.63	55.914	
15,100.00	7,618.00	15,353.00	7,799.48	108.45	138.96	-103.08	1,834.80	4,613.84	6,786.53	6,667.03	119.49	56.794	
15,200.00	7,618.00	15,353.00	7,799.48	109.99	138.96	-103.08	1,834.80	4,613.84	6,884.32	6,764.95	119.37	57.674	
15,300.00	7,618.00	15,353.00	7,799.48	111.54	138.96	-103.08	1,834.80	4,613.84	6,982.17	6,862.93	119.24	58.553	
15,400.00	7,618.00	15,353.00	7,799.48	113.09	138.96	-103.08	1,834.80	4,613.84	7,080.09	6,960.96	119.13	59.433	
15,500.00	7,618.00	15,353.00	7,799.48	114.65	138.96	-103.08	1,834.80	4,613.84	7,178.06	7,059.04	119.02	60.312	
15,600.00	7,618.00	15,353.00	7,799.48	116.21	138.96	-103.08	1,834.80	4,613.84	7,276.08	7,157.17	118.91	61.190	
15,700.00	7,618.00	15,353.00	7,799.48	117.78	138.96	-103.08	1,834.80	4,613.84	7,374.16	7,255.35	118.81	62.069	
15,800.00	7,618.00	15,353.00	7,799.48	119.36	138.96	-103.08	1,834.80	4,613.84	7,472.29	7,353.58	118.71	62.946	
15,900.00	7,618.00	15,353.00	7,799.48	120.94	138.96	-103.08	1,834.80	4,613.84	7,570.47	7,451.85	118.62	63.824	
16,000.00	7,618.00	15,353.00	7,799.48	122.53	138.96	-103.08	1,834.80	4,613.84	7,668.69	7,550.17	118.53	64.701	
16,100.00	7,618.00	15,353.00	7,799.48	124.12	138.96	-103.08	1,834.80	4,613.84	7,766.96	7,648.52	118.44	65.577	
16,200.00	7,618.00	15,353.00	7,799.48	125.72	138.96	-103.08	1,834.80	4,613.84	7,865.28	7,746.92	118.36	66.453	
16,300.00	7,618.00	15,353.00	7,799.48	127.32	138.96	-103.08	1,834.80	4,613.84	7,963.64	7,845.35	118.28	67.328	
16,400.00	7,618.00	15,353.00	7,799.48	128.93	138.96	-103.08	1,834.80	4,613.84	8,062.03	7,943.83	118.21	68.203	
16,500.00	7,618.00	15,353.00	7,799.48	130.54	138.96	-103.08	1,834.80	4,613.84	8,160.47	8,042.33	118.14	69.077	
16,600.00	7,618.00	15,353.00	7,799.48	132.15	138.96	-103.08	1,834.80	4,613.84	8,258.94	8,140.87	118.07	69.951	
16,700.00	7,618.00	15,353.00	7,799.48	133.77	138.96	-103.08	1,834.80	4,613.84	8,357.45	8,239.45	118.00	70.824	
16,800.00	7,618.00	15,353.00	7,799.48	135.39	138.96	-103.08	1,834.80	4,613.84	8,456.00	8,338.06	117.94	71.697	
16,900.00	7,618.00	15,353.00	7,799.48	137.01	138.96	-103.08	1,834.80	4,613.84	8,554.57	8,436.69	117.88	72.569	
17,000.00	7,618.00	15,353.00	7,799.48	138.64	138.96	-103.08	1,834.80	4,613.84	8,653.19	8,535.36	117.83	73.440	
17,100.00	7,618.00	15,353.00	7,799.48	140.27	138.96	-103.08	1,834.80	4,613.84	8,751.83	8,634.05	117.77	74.310	
17,200.00	7,618.00	15,353.00	7,799.48	141.91	138.96	-103.08	1,834.80	4,613.84	8,850.50	8,732.78	117.72	75.180	
17,300.00	7,618.00	15,353.00	7,799.48	143.55	138.96	-103.08	1,834.80	4,613.84	8,949.20	8,831.53	117.68	76.050	
17,400.00	7,618.00	15,353.00	7,799.48	145.19	138.96	-103.08	1,834.80	4,613.84	9,047.94	8,930.30	117.63	76.918	
17,500.00	7,618.00	15,353.00	7,799.48	146.83	138.96	-103.08	1,834.80	4,613.84	9,146.69	9,029.11	117.59	77.786	
17,600.00	7,618.00	15,353.00	7,799.48	148.48	138.96	-103.08	1,834.80	4,613.84	9,245.48	9,127.93	117.55	78.653	
17,700.00	7,618.00	15,353.00	7,799.48	150.13	138.96	-103.08	1,834.80	4,613.84	9,344.29	9,226.78	117.51	79.520	
17,800.00	7,618.00	15,353.00	7,799.48	151.78	138.96	-103.08	1,834.80	4,613.84	9,443.13	9,325.65	117.47	80.386	
17,900.00	7,618.00	15,353.00	7,799.48	153.43	138.96	-103.08	1,834.80	4,613.84	9,541.99	9,424.55	117.44	81.251	
18,000.00	7,618.00	15,353.00	7,799.48	155.09	138.96	-103.08	1,834.80	4,613.84	9,640.87	9,523.46	117.41	82.115	
18,100.00	7,618.00	15,353.00	7,799.48	156.75	138.96	-103.08	1,834.80	4,613.84	9,739.78	9,622.40	117.38	82.979	
18,200.00	7,618.00	15,353.00	7,799.48	158.41	138.96	-103.08	1,834.80	4,613.84	9,838.71	9,721.36	117.35	83.841	
18,300.00	7,618.00	15,353.00	7,799.48	160.07	138.96	-103.08	1,834.80	4,613.84	9,937.66	9,820.33	117.32	84.704	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	15,243.00	7,668.35	0.00	138.66	69.56	1,844.23	4,949.53	9,428.72				
100.00	100.00	15,243.00	7,668.35	0.13	138.66	69.56	1,844.23	4,949.53	9,346.05	9,254.86	91.19	102.492	
200.00	200.00	15,243.00	7,668.35	0.49	138.66	69.56	1,844.23	4,949.53	9,263.72	9,172.09	91.63	101.096	
300.00	300.00	15,243.00	7,668.35	0.85	138.66	69.56	1,844.23	4,949.53	9,181.75	9,089.63	92.11	99.680	
400.00	400.00	15,243.00	7,668.35	1.21	138.66	69.56	1,844.23	4,949.53	9,100.13	9,007.51	92.63	98.247	
500.00	500.00	15,243.00	7,668.35	1.57	138.66	69.56	1,844.23	4,949.53	9,018.89	8,925.72	93.17	96.800	
600.00	600.00	15,243.00	7,668.35	1.93	138.66	69.56	1,844.23	4,949.53	8,938.02	8,844.28	93.75	95.343	
700.00	700.00	15,243.00	7,668.35	2.29	138.66	69.56	1,844.23	4,949.53	8,857.55	8,763.20	94.35	93.880	
800.00	800.00	15,243.00	7,668.35	2.64	138.66	69.56	1,844.23	4,949.53	8,777.48	8,682.50	94.98	92.414	
900.00	900.00	15,243.00	7,668.35	3.00	138.66	69.56	1,844.23	4,949.53	8,697.82	8,602.18	95.63	90.950	
1,000.00	999.98	15,243.00	7,668.35	3.36	138.66	12.96	1,844.23	4,949.53	8,617.55	8,521.24	96.31	89.477	
1,100.00	1,099.84	15,243.00	7,668.35	3.71	138.66	13.62	1,844.23	4,949.53	8,535.70	8,438.70	96.99	88.004	
1,200.00	1,199.45	15,243.00	7,668.35	4.07	138.66	14.35	1,844.23	4,949.53	8,452.30	8,354.64	97.66	86.546	
1,300.00	1,298.70	15,243.00	7,668.35	4.44	138.66	15.17	1,844.23	4,949.53	8,367.42	8,269.10	98.32	85.105	
1,400.00	1,397.47	15,243.00	7,668.35	4.82	138.66	16.09	1,844.23	4,949.53	8,281.12	8,182.16	98.96	83.681	
1,500.00	1,495.62	15,243.00	7,668.35	5.22	138.66	17.13	1,844.23	4,949.53	8,193.46	8,093.88	99.59	82.276	
1,600.00	1,593.06	15,243.00	7,668.35	5.65	138.66	18.32	1,844.23	4,949.53	8,104.51	8,004.31	100.19	80.888	
1,700.00	1,689.64	15,243.00	7,668.35	6.11	138.66	19.67	1,844.23	4,949.53	8,014.32	7,913.54	100.78	79.519	
1,800.00	1,785.27	15,243.00	7,668.35	6.61	138.66	21.24	1,844.23	4,949.53	7,922.98	7,821.62	101.36	78.170	
1,900.00	1,879.82	15,243.00	7,668.35	7.15	138.66	23.07	1,844.23	4,949.53	7,830.55	7,728.64	101.91	76.839	
2,000.00	1,973.17	15,243.00	7,668.35	7.73	138.66	25.22	1,844.23	4,949.53	7,737.11	7,634.67	102.44	75.529	
2,100.00	2,065.21	15,243.00	7,668.35	8.37	138.66	27.76	1,844.23	4,949.53	7,642.73	7,539.79	102.95	74.239	
2,200.00	2,155.84	15,243.00	7,668.35	9.07	138.66	30.81	1,844.23	4,949.53	7,547.51	7,444.08	103.43	72.969	
2,300.00	2,244.94	15,243.00	7,668.35	9.82	138.66	34.51	1,844.23	4,949.53	7,451.53	7,347.63	103.90	71.719	
2,400.00	2,332.39	15,243.00	7,668.35	10.64	138.66	39.02	1,844.23	4,949.53	7,354.87	7,250.53	104.34	70.491	
2,500.00	2,418.11	15,243.00	7,668.35	11.53	138.66	44.58	1,844.23	4,949.53	7,257.62	7,152.87	104.75	69.284	
2,558.91	2,467.74	15,243.00	7,668.35	12.08	138.66	48.44	1,844.23	4,949.53	7,200.11	7,095.13	104.98	68.583	
2,600.00	2,502.13	15,243.00	7,668.35	12.47	138.66	48.44	1,844.23	4,949.53	7,159.94	7,054.80	105.14	68.097	
2,700.00	2,585.83	15,243.00	7,668.35	13.45	138.66	48.44	1,844.23	4,949.53	7,062.23	6,956.69	105.54	66.916	
2,800.00	2,669.53	15,243.00	7,668.35	14.44	138.66	48.44	1,844.23	4,949.53	6,964.58	6,858.63	105.95	65.735	
2,900.00	2,753.22	15,243.00	7,668.35	15.46	138.66	48.44	1,844.23	4,949.53	6,867.00	6,760.63	106.37	64.555	
3,000.00	2,836.92	15,243.00	7,668.35	16.48	138.66	48.44	1,844.23	4,949.53	6,769.50	6,662.68	106.82	63.375	
3,100.00	2,920.62	15,243.00	7,668.35	17.52	138.66	48.44	1,844.23	4,949.53	6,672.06	6,564.79	107.27	62.196	
3,200.00	3,004.32	15,243.00	7,668.35	18.56	138.66	48.44	1,844.23	4,949.53	6,574.70	6,466.96	107.75	61.019	
3,300.00	3,088.01	15,243.00	7,668.35	19.61	138.66	48.44	1,844.23	4,949.53	6,477.43	6,369.19	108.24	59.843	
3,400.00	3,171.71	15,243.00	7,668.35	20.67	138.66	48.44	1,844.23	4,949.53	6,380.24	6,271.49	108.75	58.669	
3,500.00	3,255.41	15,243.00	7,668.35	21.73	138.66	48.44	1,844.23	4,949.53	6,283.13	6,173.85	109.28	57.497	
3,600.00	3,339.10	15,243.00	7,668.35	22.80	138.66	48.44	1,844.23	4,949.53	6,186.12	6,076.30	109.82	56.328	
3,700.00	3,422.80	15,243.00	7,668.35	23.87	138.66	48.44	1,844.23	4,949.53	6,089.20	5,978.82	110.39	55.161	
3,800.00	3,506.50	15,243.00	7,668.35	24.94	138.66	48.44	1,844.23	4,949.53	5,992.39	5,881.42	110.97	53.998	
3,900.00	3,590.20	15,243.00	7,668.35	26.02	138.66	48.44	1,844.23	4,949.53	5,895.68	5,784.10	111.58	52.839	
4,000.00	3,673.89	15,243.00	7,668.35	27.10	138.66	48.44	1,844.23	4,949.53	5,799.09	5,686.88	112.21	51.683	
4,100.00	3,757.59	15,243.00	7,668.35	28.18	138.66	48.44	1,844.23	4,949.53	5,702.61	5,589.76	112.85	50.531	
4,200.00	3,841.29	15,243.00	7,668.35	29.26	138.66	48.44	1,844.23	4,949.53	5,606.26	5,492.73	113.53	49.383	
4,300.00	3,924.99	15,243.00	7,668.35	30.35	138.66	48.44	1,844.23	4,949.53	5,510.03	5,395.81	114.22	48.241	
4,400.00	4,008.68	15,243.00	7,668.35	31.44	138.66	48.44	1,844.23	4,949.53	5,413.94	5,299.00	114.94	47.103	
4,500.00	4,092.38	15,243.00	7,668.35	32.52	138.66	48.44	1,844.23	4,949.53	5,318.00	5,202.31	115.68	45.970	
4,600.00	4,176.08	15,243.00	7,668.35	33.62	138.66	48.44	1,844.23	4,949.53	5,222.21	5,105.75	116.46	44.843	
4,700.00	4,259.77	15,243.00	7,668.35	34.71	138.66	48.44	1,844.23	4,949.53	5,126.58	5,009.32	117.25	43.722	
4,800.00	4,343.47	15,243.00	7,668.35	35.80	138.66	48.44	1,844.23	4,949.53	5,031.11	4,913.03	118.08	42.607	
4,900.00	4,427.17	15,243.00	7,668.35	36.89	138.66	48.44	1,844.23	4,949.53	4,935.83	4,816.89	118.94	41.498	
5,000.00	4,510.87	15,243.00	7,668.35	37.99	138.66	48.44	1,844.23	4,949.53	4,840.74	4,720.91	119.83	40.396	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	15,243.00	7,668.35	39.08	138.66	48.44	1,844.23	4,949.53	4,745.85	4,625.10	120.75	39.302	
5,200.00	4,678.26	15,243.00	7,668.35	40.18	138.66	48.44	1,844.23	4,949.53	4,651.18	4,529.46	121.71	38.214	
5,300.00	4,761.96	15,243.00	7,668.35	41.28	138.66	48.44	1,844.23	4,949.53	4,556.73	4,434.02	122.71	37.135	
5,400.00	4,845.66	15,243.00	7,668.35	42.37	138.66	48.44	1,844.23	4,949.53	4,462.52	4,338.78	123.74	36.063	
5,500.00	4,929.35	15,243.00	7,668.35	43.47	138.66	48.44	1,844.23	4,949.53	4,368.58	4,243.76	124.82	35.000	
5,600.00	5,013.05	15,243.00	7,668.35	44.57	138.66	48.44	1,844.23	4,949.53	4,274.90	4,148.97	125.93	33.946	
5,700.00	5,096.75	15,243.00	7,668.35	45.67	138.66	48.44	1,844.23	4,949.53	4,181.52	4,054.43	127.09	32.902	
5,800.00	5,180.45	15,243.00	7,668.35	46.77	138.66	48.44	1,844.23	4,949.53	4,088.46	3,960.16	128.30	31.867	
5,900.00	5,264.14	15,243.00	7,668.35	47.87	138.66	48.44	1,844.23	4,949.53	3,995.72	3,866.17	129.55	30.842	
6,000.00	5,347.84	15,243.00	7,668.35	48.97	138.66	48.44	1,844.23	4,949.53	3,903.35	3,772.49	130.86	29.828	
6,100.00	5,431.54	15,243.00	7,668.35	50.07	138.66	48.44	1,844.23	4,949.53	3,811.36	3,679.14	132.22	28.825	
6,200.00	5,515.23	15,243.00	7,668.35	51.17	138.66	48.44	1,844.23	4,949.53	3,719.79	3,586.14	133.64	27.833	
6,300.00	5,598.93	15,243.00	7,668.35	52.27	138.66	48.44	1,844.23	4,949.53	3,628.66	3,493.53	135.12	26.854	
6,400.00	5,682.63	15,243.00	7,668.35	53.38	138.66	48.44	1,844.23	4,949.53	3,538.01	3,401.34	136.67	25.888	
6,500.00	5,766.33	15,243.00	7,668.35	54.48	138.66	48.44	1,844.23	4,949.53	3,447.87	3,309.59	138.28	24.934	
6,600.00	5,850.02	15,243.00	7,668.35	55.58	138.66	48.44	1,844.23	4,949.53	3,358.30	3,218.34	139.96	23.995	
6,700.00	5,933.72	15,243.00	7,668.35	56.68	138.66	48.44	1,844.23	4,949.53	3,269.33	3,127.62	141.71	23.071	
6,800.00	6,017.42	15,243.00	7,668.35	57.79	138.66	48.44	1,844.23	4,949.53	3,181.01	3,037.47	143.54	22.161	
6,900.00	6,101.12	15,243.00	7,668.35	58.89	138.66	48.44	1,844.23	4,949.53	3,093.41	2,947.96	145.45	21.268	
7,000.00	6,184.81	15,243.00	7,668.35	59.99	138.66	48.44	1,844.23	4,949.53	3,006.58	2,859.14	147.44	20.392	
7,100.00	6,268.51	15,243.00	7,668.35	61.10	138.66	48.44	1,844.23	4,949.53	2,920.59	2,771.07	149.52	19.534	
7,200.00	6,352.21	15,243.00	7,668.35	62.20	138.66	48.44	1,844.23	4,949.53	2,835.52	2,683.84	151.68	18.694	
7,300.00	6,435.90	15,243.00	7,668.35	63.31	138.66	48.44	1,844.23	4,949.53	2,751.46	2,597.52	153.94	17.874	
7,400.00	6,519.60	15,243.00	7,668.35	64.41	138.66	48.44	1,844.23	4,949.53	2,668.49	2,512.20	156.29	17.074	
7,500.00	6,603.30	15,243.00	7,668.35	65.51	138.66	48.44	1,844.23	4,949.53	2,586.73	2,428.00	158.73	16.296	
7,600.00	6,687.00	15,243.00	7,668.35	66.62	138.66	48.44	1,844.23	4,949.53	2,506.29	2,345.03	161.27	15.541	
7,700.00	6,770.69	15,243.00	7,668.35	67.72	138.66	48.44	1,844.23	4,949.53	2,427.31	2,263.42	163.89	14.811	
7,800.00	6,854.39	15,224.37	7,668.21	68.83	138.33	47.80	1,862.86	4,949.12	2,349.86	2,183.88	165.98	14.158	
7,900.00	6,938.09	15,196.40	7,667.99	69.93	137.85	46.84	1,890.81	4,948.49	2,273.84	2,106.03	167.81	13.550	
7,933.18	6,965.86	15,188.88	7,667.92	70.30	137.72	46.52	1,900.09	4,948.28	2,248.95	2,080.50	168.45	13.351	
7,950.00	6,980.00	15,193.34	7,667.89	70.49	137.79	42.22	1,904.55	4,948.18	2,236.36	2,067.44	168.92	13.240	
8,000.00	7,022.68	15,177.00	7,667.86	71.01	137.51	28.88	1,910.21	4,948.06	2,198.73	2,028.85	169.88	12.943	
8,050.00	7,066.06	15,172.60	7,667.83	71.51	137.43	14.58	1,914.61	4,947.97	2,161.06	1,990.12	170.94	12.642	
8,100.00	7,109.82	15,171.19	7,667.83	71.97	137.41	-0.09	1,916.02	4,947.94	2,123.66	1,951.68	171.98	12.348	
8,150.00	7,153.63	15,172.88	7,667.84	72.38	137.44	-14.51	1,914.33	4,947.97	2,086.86	1,913.87	172.99	12.063	
8,200.00	7,197.14	15,177.73	7,667.86	72.74	137.52	-28.04	1,909.48	4,948.07	2,050.96	1,877.00	173.96	11.790	
8,250.00	7,240.04	15,191.07	7,667.91	73.05	137.75	-40.28	1,902.28	4,948.23	2,016.25	1,841.30	174.95	11.525	
8,300.00	7,281.99	15,200.32	7,668.02	73.31	137.92	-50.80	1,886.89	4,948.57	1,983.02	1,807.15	175.87	11.275	
8,350.00	7,322.67	15,219.80	7,668.17	73.52	138.25	-59.76	1,867.42	4,949.01	1,951.48	1,774.60	176.88	11.033	
8,400.00	7,361.77	15,243.22	7,668.35	73.68	138.66	-67.27	1,844.01	4,949.54	1,921.84	1,743.97	177.86	10.805	
8,450.00	7,399.01	15,243.00	7,668.35	73.78	138.66	-74.22	1,844.23	4,949.53	1,894.47	1,716.71	177.76	10.657	
8,500.00	7,434.08	15,243.00	7,668.35	73.85	138.66	-80.01	1,844.23	4,949.53	1,869.84	1,692.37	177.47	10.536	
8,550.00	7,466.74	15,243.00	7,668.35	73.87	138.66	-84.79	1,844.23	4,949.53	1,848.24	1,671.26	176.98	10.443	
8,600.00	7,496.72	15,243.00	7,668.35	73.85	138.66	-88.68	1,844.23	4,949.53	1,829.94	1,653.64	176.31	10.379	
8,650.00	7,523.80	15,243.00	7,668.35	73.79	138.66	-91.79	1,844.23	4,949.53	1,815.20	1,639.74	175.46	10.345	
8,700.00	7,547.77	15,243.00	7,668.35	73.70	138.66	-94.20	1,844.23	4,949.53	1,804.20	1,629.74	174.46	10.342	SF
8,750.00	7,568.45	15,243.00	7,668.35	73.58	138.66	-95.98	1,844.23	4,949.53	1,797.10	1,623.77	173.33	10.368	
8,800.00	7,585.69	15,243.00	7,668.35	73.43	138.66	-97.16	1,844.23	4,949.53	1,794.00	1,621.89	172.11	10.424	ES
8,813.29	7,589.68	15,243.00	7,668.35	73.38	138.66	-97.39	1,844.23	4,949.53	1,793.86	1,622.08	171.78	10.443	CC
8,850.00	7,599.35	15,243.00	7,668.35	73.26	138.66	-97.80	1,844.23	4,949.53	1,794.95	1,624.12	170.83	10.507	
8,900.00	7,609.33	15,243.00	7,668.35	73.07	138.66	-97.90	1,844.23	4,949.53	1,799.93	1,630.41	169.52	10.618	
8,950.00	7,615.55	15,243.00	7,668.35	72.87	138.66	-97.48	1,844.23	4,949.53	1,808.87	1,640.67	168.21	10.754	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	15,243.00	7,668.35	72.65	138.66	-96.52	1,844.23	4,949.53	1,821.65	1,654.73	166.92	10.913	
9,006.60	7,618.00	15,243.00	7,668.35	72.62	138.66	-96.35	1,844.23	4,949.53	1,823.62	1,656.86	166.76	10.936	
9,100.00	7,618.00	15,243.00	7,668.35	72.22	138.66	-96.35	1,844.23	4,949.53	1,854.00	1,689.43	164.57	11.266	
9,200.00	7,618.00	15,243.00	7,668.35	71.80	138.66	-96.35	1,844.23	4,949.53	1,891.11	1,728.52	162.59	11.631	
9,300.00	7,618.00	15,243.00	7,668.35	71.41	138.66	-96.35	1,844.23	4,949.53	1,932.69	1,771.73	160.96	12.007	
9,400.00	7,618.00	15,243.00	7,668.35	71.04	138.66	-96.35	1,844.23	4,949.53	1,978.46	1,818.84	159.62	12.395	
9,500.00	7,618.00	15,243.00	7,668.35	70.68	138.66	-96.35	1,844.23	4,949.53	2,028.12	1,869.63	158.49	12.797	
9,600.00	7,618.00	15,243.00	7,668.35	70.35	138.66	-96.35	1,844.23	4,949.53	2,081.41	1,923.90	157.51	13.215	
9,700.00	7,618.00	15,243.00	7,668.35	70.04	138.66	-96.35	1,844.23	4,949.53	2,138.05	1,981.42	156.63	13.650	
9,800.00	7,618.00	15,243.00	7,668.35	69.75	138.66	-96.35	1,844.23	4,949.53	2,197.78	2,041.97	155.81	14.106	
9,900.00	7,618.00	15,243.00	7,668.35	69.47	138.66	-96.35	1,844.23	4,949.53	2,260.36	2,105.34	155.02	14.581	
10,000.00	7,618.00	15,243.00	7,668.35	69.22	138.66	-96.35	1,844.23	4,949.53	2,325.56	2,171.31	154.25	15.077	
10,100.00	7,618.00	15,243.00	7,668.35	68.99	138.66	-96.35	1,844.23	4,949.53	2,393.16	2,239.68	153.48	15.592	
10,200.00	7,618.00	15,243.00	7,668.35	68.78	138.66	-96.35	1,844.23	4,949.53	2,462.97	2,310.25	152.72	16.128	
10,300.00	7,618.00	15,243.00	7,668.35	68.59	138.66	-96.35	1,844.23	4,949.53	2,534.80	2,382.84	151.95	16.682	
10,400.00	7,618.00	15,243.00	7,668.35	68.42	138.66	-96.35	1,844.23	4,949.53	2,608.48	2,457.30	151.19	17.253	
10,500.00	7,618.00	15,243.00	7,668.35	68.28	138.66	-96.35	1,844.23	4,949.53	2,683.87	2,533.45	150.42	17.842	
10,600.00	7,618.00	15,243.00	7,668.35	68.16	138.66	-96.35	1,844.23	4,949.53	2,760.83	2,611.16	149.66	18.447	
10,700.00	7,618.00	15,243.00	7,668.35	68.06	138.66	-96.35	1,844.23	4,949.53	2,839.22	2,690.31	148.91	19.067	
10,800.00	7,618.00	15,243.00	7,668.35	67.99	138.66	-96.35	1,844.23	4,949.53	2,918.93	2,770.77	148.16	19.701	
10,900.00	7,618.00	15,243.00	7,668.35	67.95	138.66	-96.35	1,844.23	4,949.53	2,999.85	2,852.43	147.42	20.348	
11,000.00	7,618.00	15,243.00	7,668.35	67.95	138.66	-96.35	1,844.23	4,949.53	3,081.90	2,935.20	146.70	21.008	
11,100.00	7,618.00	15,243.00	7,668.35	67.97	138.66	-96.35	1,844.23	4,949.53	3,164.98	3,018.99	145.99	21.680	
11,200.00	7,618.00	15,243.00	7,668.35	68.04	138.66	-96.35	1,844.23	4,949.53	3,249.01	3,103.72	145.29	22.362	
11,300.00	7,618.00	15,243.00	7,668.35	68.15	138.66	-96.35	1,844.23	4,949.53	3,333.93	3,189.32	144.61	23.054	
11,400.00	7,618.00	15,243.00	7,668.35	68.30	138.66	-96.35	1,844.23	4,949.53	3,419.66	3,275.71	143.95	23.756	
11,500.00	7,618.00	15,243.00	7,668.35	68.50	138.66	-96.35	1,844.23	4,949.53	3,506.15	3,362.85	143.30	24.467	
11,600.00	7,618.00	15,243.00	7,668.35	68.75	138.66	-96.35	1,844.23	4,949.53	3,593.33	3,450.66	142.67	25.186	
11,700.00	7,618.00	15,243.00	7,668.35	69.06	138.66	-96.35	1,844.23	4,949.53	3,681.17	3,539.11	142.06	25.913	
11,800.00	7,618.00	15,243.00	7,668.35	69.44	138.66	-96.35	1,844.23	4,949.53	3,769.62	3,628.15	141.47	26.646	
11,900.00	7,618.00	15,243.00	7,668.35	69.88	138.66	-96.35	1,844.23	4,949.53	3,858.63	3,717.74	140.89	27.387	
12,000.00	7,618.00	15,243.00	7,668.35	70.39	138.66	-96.35	1,844.23	4,949.53	3,948.16	3,807.83	140.34	28.134	
12,100.00	7,618.00	15,243.00	7,668.35	70.97	138.66	-96.35	1,844.23	4,949.53	4,038.19	3,898.40	139.80	28.886	
12,200.00	7,618.00	15,243.00	7,668.35	71.63	138.66	-96.35	1,844.23	4,949.53	4,128.68	3,989.40	139.27	29.644	
12,300.00	7,618.00	15,243.00	7,668.35	72.35	138.66	-96.35	1,844.23	4,949.53	4,219.59	4,080.83	138.77	30.407	
12,400.00	7,618.00	15,243.00	7,668.35	73.15	138.66	-96.35	1,844.23	4,949.53	4,310.91	4,172.63	138.28	31.175	
12,500.00	7,618.00	15,243.00	7,668.35	74.01	138.66	-96.35	1,844.23	4,949.53	4,402.61	4,264.80	137.81	31.947	
12,600.00	7,618.00	15,243.00	7,668.35	74.93	138.66	-96.35	1,844.23	4,949.53	4,494.66	4,357.31	137.35	32.724	
12,700.00	7,618.00	15,243.00	7,668.35	75.91	138.66	-96.35	1,844.23	4,949.53	4,587.04	4,450.13	136.91	33.504	
12,800.00	7,618.00	15,243.00	7,668.35	76.95	138.66	-96.35	1,844.23	4,949.53	4,679.73	4,543.25	136.48	34.288	
12,900.00	7,618.00	15,243.00	7,668.35	78.04	138.66	-96.35	1,844.23	4,949.53	4,772.73	4,636.65	136.07	35.075	
13,000.00	7,618.00	15,243.00	7,668.35	79.16	138.66	-96.35	1,844.23	4,949.53	4,865.99	4,730.32	135.68	35.865	
13,100.00	7,618.00	15,243.00	7,668.35	80.33	138.66	-96.35	1,844.23	4,949.53	4,959.52	4,824.23	135.29	36.658	
13,200.00	7,618.00	15,243.00	7,668.35	81.54	138.66	-96.35	1,844.23	4,949.53	5,053.30	4,918.38	134.92	37.454	
13,300.00	7,618.00	15,243.00	7,668.35	82.78	138.66	-96.35	1,844.23	4,949.53	5,147.32	5,012.75	134.56	38.252	
13,400.00	7,618.00	15,243.00	7,668.35	84.05	138.66	-96.35	1,844.23	4,949.53	5,241.55	5,107.33	134.22	39.053	
13,500.00	7,618.00	15,243.00	7,668.35	85.35	138.66	-96.35	1,844.23	4,949.53	5,335.99	5,202.11	133.88	39.856	
13,600.00	7,618.00	15,243.00	7,668.35	86.67	138.66	-96.35	1,844.23	4,949.53	5,430.64	5,297.08	133.56	40.660	
13,700.00	7,618.00	15,243.00	7,668.35	88.02	138.66	-96.35	1,844.23	4,949.53	5,525.47	5,392.22	133.25	41.467	
13,800.00	7,618.00	15,243.00	7,668.35	89.38	138.66	-96.35	1,844.23	4,949.53	5,620.48	5,487.53	132.95	42.276	
13,900.00	7,618.00	15,243.00	7,668.35	90.77	138.66	-96.35	1,844.23	4,949.53	5,715.66	5,583.00	132.66	43.086	
14,000.00	7,618.00	15,243.00	7,668.35	92.17	138.66	-96.35	1,844.23	4,949.53	5,811.01	5,678.63	132.38	43.897	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,618.00	15,243.00	7,668.35	93.59	138.66	-96.35	1,844.23	4,949.53	5,906.50	5,774.40	132.11	44.710	
14,200.00	7,618.00	15,243.00	7,668.35	95.02	138.66	-96.35	1,844.23	4,949.53	6,002.15	5,870.30	131.84	45.525	
14,300.00	7,618.00	15,243.00	7,668.35	96.47	138.66	-96.35	1,844.23	4,949.53	6,097.93	5,966.34	131.59	46.340	
14,400.00	7,618.00	15,243.00	7,668.35	97.93	138.66	-96.35	1,844.23	4,949.53	6,193.85	6,062.50	131.35	47.157	
14,500.00	7,618.00	15,243.00	7,668.35	99.41	138.66	-96.35	1,844.23	4,949.53	6,289.89	6,158.78	131.11	47.974	
14,600.00	7,618.00	15,243.00	7,668.35	100.89	138.66	-96.35	1,844.23	4,949.53	6,386.06	6,255.17	130.88	48.792	
14,700.00	7,618.00	15,243.00	7,668.35	102.38	138.66	-96.35	1,844.23	4,949.53	6,482.34	6,351.68	130.66	49.612	
14,800.00	7,618.00	15,243.00	7,668.35	103.89	138.66	-96.35	1,844.23	4,949.53	6,578.73	6,448.28	130.45	50.432	
14,900.00	7,618.00	15,243.00	7,668.35	105.40	138.66	-96.35	1,844.23	4,949.53	6,675.23	6,544.99	130.24	51.252	
15,000.00	7,618.00	15,243.00	7,668.35	106.92	138.66	-96.35	1,844.23	4,949.53	6,771.83	6,641.79	130.04	52.074	
15,100.00	7,618.00	15,243.00	7,668.35	108.45	138.66	-96.35	1,844.23	4,949.53	6,868.53	6,738.68	129.85	52.896	
15,200.00	7,618.00	15,243.00	7,668.35	109.99	138.66	-96.35	1,844.23	4,949.53	6,965.32	6,835.65	129.66	53.718	
15,300.00	7,618.00	15,243.00	7,668.35	111.54	138.66	-96.35	1,844.23	4,949.53	7,062.20	6,932.71	129.48	54.541	
15,400.00	7,618.00	15,243.00	7,668.35	113.09	138.66	-96.35	1,844.23	4,949.53	7,159.16	7,029.85	129.31	55.364	
15,500.00	7,618.00	15,243.00	7,668.35	114.65	138.66	-96.35	1,844.23	4,949.53	7,256.21	7,127.07	129.14	56.187	
15,600.00	7,618.00	15,243.00	7,668.35	116.21	138.66	-96.35	1,844.23	4,949.53	7,353.34	7,224.36	128.98	57.011	
15,700.00	7,618.00	15,243.00	7,668.35	117.78	138.66	-96.35	1,844.23	4,949.53	7,450.54	7,321.72	128.82	57.835	
15,800.00	7,618.00	15,243.00	7,668.35	119.36	138.66	-96.35	1,844.23	4,949.53	7,547.82	7,419.15	128.67	58.660	
15,900.00	7,618.00	15,243.00	7,668.35	120.94	138.66	-96.35	1,844.23	4,949.53	7,645.17	7,516.64	128.52	59.484	
16,000.00	7,618.00	15,243.00	7,668.35	122.53	138.66	-96.35	1,844.23	4,949.53	7,742.58	7,614.20	128.38	60.308	
16,100.00	7,618.00	15,243.00	7,668.35	124.12	138.66	-96.35	1,844.23	4,949.53	7,840.06	7,711.82	128.25	61.133	
16,200.00	7,618.00	15,243.00	7,668.35	125.72	138.66	-96.35	1,844.23	4,949.53	7,937.60	7,809.49	128.11	61.958	
16,300.00	7,618.00	15,243.00	7,668.35	127.32	138.66	-96.35	1,844.23	4,949.53	8,035.21	7,907.22	127.98	62.782	
16,400.00	7,618.00	15,243.00	7,668.35	128.93	138.66	-96.35	1,844.23	4,949.53	8,132.87	8,005.01	127.86	63.607	
16,500.00	7,618.00	15,243.00	7,668.35	130.54	138.66	-96.35	1,844.23	4,949.53	8,230.58	8,102.84	127.74	64.432	
16,600.00	7,618.00	15,243.00	7,668.35	132.15	138.66	-96.35	1,844.23	4,949.53	8,328.36	8,200.73	127.63	65.256	
16,700.00	7,618.00	15,243.00	7,668.35	133.77	138.66	-96.35	1,844.23	4,949.53	8,426.18	8,298.67	127.51	66.081	
16,800.00	7,618.00	15,243.00	7,668.35	135.39	138.66	-96.35	1,844.23	4,949.53	8,524.05	8,396.65	127.41	66.905	
16,900.00	7,618.00	15,243.00	7,668.35	137.01	138.66	-96.35	1,844.23	4,949.53	8,621.98	8,494.68	127.30	67.729	
17,000.00	7,618.00	15,243.00	7,668.35	138.64	138.66	-96.35	1,844.23	4,949.53	8,719.95	8,592.75	127.20	68.553	
17,100.00	7,618.00	15,243.00	7,668.35	140.27	138.66	-96.35	1,844.23	4,949.53	8,817.96	8,690.86	127.10	69.377	
17,200.00	7,618.00	15,243.00	7,668.35	141.91	138.66	-96.35	1,844.23	4,949.53	8,916.02	8,789.01	127.01	70.200	
17,300.00	7,618.00	15,243.00	7,668.35	143.55	138.66	-96.35	1,844.23	4,949.53	9,014.12	8,887.21	126.92	71.023	
17,400.00	7,618.00	15,243.00	7,668.35	145.19	138.66	-96.35	1,844.23	4,949.53	9,112.27	8,985.44	126.83	71.846	
17,500.00	7,618.00	15,243.00	7,668.35	146.83	138.66	-96.35	1,844.23	4,949.53	9,210.45	9,083.71	126.74	72.669	
17,600.00	7,618.00	15,243.00	7,668.35	148.48	138.66	-96.35	1,844.23	4,949.53	9,308.67	9,182.01	126.66	73.492	
17,700.00	7,618.00	15,243.00	7,668.35	150.13	138.66	-96.35	1,844.23	4,949.53	9,406.93	9,280.35	126.58	74.314	
17,800.00	7,618.00	15,243.00	7,668.35	151.78	138.66	-96.35	1,844.23	4,949.53	9,505.23	9,378.72	126.51	75.135	
17,900.00	7,618.00	15,243.00	7,668.35	153.43	138.66	-96.35	1,844.23	4,949.53	9,603.56	9,477.13	126.43	75.957	
18,000.00	7,618.00	15,243.00	7,668.35	155.09	138.66	-96.35	1,844.23	4,949.53	9,701.93	9,575.56	126.36	76.778	
18,100.00	7,618.00	15,243.00	7,668.35	156.75	138.66	-96.35	1,844.23	4,949.53	9,800.32	9,674.03	126.30	77.598	
18,200.00	7,618.00	15,243.00	7,668.35	158.41	138.66	-96.35	1,844.23	4,949.53	9,898.75	9,772.52	126.23	78.419	
18,300.00	7,618.00	15,243.00	7,668.35	160.07	138.66	-96.35	1,844.23	4,949.53	9,997.22	9,871.05	126.17	79.238	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	15,134.00	7,566.57	0.00	139.08	65.71	1,823.68	4,041.27	8,892.68				
100.00	100.00	15,134.00	7,566.57	0.13	139.08	65.71	1,823.68	4,041.27	8,806.14	8,720.38	85.76	102.689	
200.00	200.00	15,134.00	7,566.57	0.49	139.08	65.71	1,823.68	4,041.27	8,719.88	8,633.75	86.13	101.240	
300.00	300.00	15,134.00	7,566.57	0.85	139.08	65.71	1,823.68	4,041.27	8,633.92	8,547.39	86.54	99.773	
400.00	400.00	15,134.00	7,566.57	1.21	139.08	65.71	1,823.68	4,041.27	8,548.27	8,461.30	86.97	98.290	
500.00	500.00	15,134.00	7,566.57	1.57	139.08	65.71	1,823.68	4,041.27	8,462.93	8,375.50	87.43	96.794	
600.00	600.00	15,134.00	7,566.57	1.93	139.08	65.71	1,823.68	4,041.27	8,377.92	8,289.99	87.92	95.287	
700.00	700.00	15,134.00	7,566.57	2.29	139.08	65.71	1,823.68	4,041.27	8,293.24	8,204.80	88.44	93.773	
800.00	800.00	15,134.00	7,566.57	2.64	139.08	65.71	1,823.68	4,041.27	8,208.90	8,119.92	88.98	92.254	
900.00	900.00	15,134.00	7,566.57	3.00	139.08	65.71	1,823.68	4,041.27	8,124.92	8,035.37	89.55	90.733	
1,000.00	999.98	15,134.00	7,566.57	3.36	139.08	9.00	1,823.68	4,041.27	8,040.37	7,950.24	90.14	89.203	
1,100.00	1,099.84	15,134.00	7,566.57	3.71	139.08	9.55	1,823.68	4,041.27	7,954.36	7,863.64	90.73	87.672	
1,200.00	1,199.45	15,134.00	7,566.57	4.07	139.08	10.16	1,823.68	4,041.27	7,866.95	7,775.64	91.31	86.157	
1,300.00	1,298.70	15,134.00	7,566.57	4.44	139.08	10.87	1,823.68	4,041.27	7,778.20	7,686.33	91.88	84.660	
1,400.00	1,397.47	15,134.00	7,566.57	4.82	139.08	11.68	1,823.68	4,041.27	7,688.17	7,595.74	92.43	83.181	
1,500.00	1,495.62	15,134.00	7,566.57	5.22	139.08	12.61	1,823.68	4,041.27	7,596.93	7,503.97	92.96	81.721	
1,600.00	1,593.06	15,134.00	7,566.57	5.65	139.08	13.71	1,823.68	4,041.27	7,504.55	7,411.07	93.48	80.283	
1,700.00	1,689.64	15,134.00	7,566.57	6.11	139.08	15.02	1,823.68	4,041.27	7,411.09	7,317.12	93.97	78.865	
1,800.00	1,785.27	15,134.00	7,566.57	6.61	139.08	16.58	1,823.68	4,041.27	7,316.64	7,222.20	94.45	77.469	
1,900.00	1,879.82	15,134.00	7,566.57	7.15	139.08	18.49	1,823.68	4,041.27	7,221.28	7,126.38	94.90	76.095	
2,000.00	1,973.17	15,134.00	7,566.57	7.73	139.08	20.87	1,823.68	4,041.27	7,125.08	7,029.75	95.33	74.744	
2,100.00	2,065.21	15,134.00	7,566.57	8.37	139.08	23.88	1,823.68	4,041.27	7,028.13	6,932.40	95.73	73.417	
2,200.00	2,155.84	15,134.00	7,566.57	9.07	139.08	27.80	1,823.68	4,041.27	6,930.51	6,834.41	96.10	72.115	
2,300.00	2,244.94	15,134.00	7,566.57	9.82	139.08	33.03	1,823.68	4,041.27	6,832.33	6,735.88	96.45	70.836	
2,400.00	2,332.39	15,134.00	7,566.57	10.64	139.08	40.22	1,823.68	4,041.27	6,733.68	6,636.91	96.77	69.584	
2,500.00	2,418.11	15,134.00	7,566.57	11.53	139.08	50.28	1,823.68	4,041.27	6,634.66	6,537.60	97.06	68.357	
2,558.91	2,467.74	15,134.00	7,566.57	12.08	139.08	57.97	1,823.68	4,041.27	6,576.21	6,478.99	97.21	67.647	
2,600.00	2,502.13	15,134.00	7,566.57	12.47	139.08	57.97	1,823.68	4,041.27	6,535.40	6,438.08	97.32	67.155	
2,700.00	2,585.83	15,134.00	7,566.57	13.45	139.08	57.97	1,823.68	4,041.27	6,436.12	6,338.54	97.58	65.959	
2,800.00	2,669.53	15,134.00	7,566.57	14.44	139.08	57.97	1,823.68	4,041.27	6,336.86	6,239.01	97.85	64.763	
2,900.00	2,753.22	15,134.00	7,566.57	15.46	139.08	57.97	1,823.68	4,041.27	6,237.62	6,139.49	98.13	63.566	
3,000.00	2,836.92	15,134.00	7,566.57	16.48	139.08	57.97	1,823.68	4,041.27	6,138.41	6,039.99	98.42	62.369	
3,100.00	2,920.62	15,134.00	7,566.57	17.52	139.08	57.97	1,823.68	4,041.27	6,039.22	5,940.50	98.72	61.173	
3,200.00	3,004.32	15,134.00	7,566.57	18.56	139.08	57.97	1,823.68	4,041.27	5,940.06	5,841.02	99.04	59.977	
3,300.00	3,088.01	15,134.00	7,566.57	19.61	139.08	57.97	1,823.68	4,041.27	5,840.93	5,741.56	99.37	58.782	
3,400.00	3,171.71	15,134.00	7,566.57	20.67	139.08	57.97	1,823.68	4,041.27	5,741.83	5,642.12	99.71	57.588	
3,500.00	3,255.41	15,134.00	7,566.57	21.73	139.08	57.97	1,823.68	4,041.27	5,642.76	5,542.70	100.06	56.394	
3,600.00	3,339.10	15,134.00	7,566.57	22.80	139.08	57.97	1,823.68	4,041.27	5,543.72	5,443.30	100.43	55.202	
3,700.00	3,422.80	15,134.00	7,566.57	23.87	139.08	57.97	1,823.68	4,041.27	5,444.72	5,343.92	100.81	54.012	
3,800.00	3,506.50	15,134.00	7,566.57	24.94	139.08	57.97	1,823.68	4,041.27	5,345.76	5,244.56	101.20	52.823	
3,900.00	3,590.20	15,134.00	7,566.57	26.02	139.08	57.97	1,823.68	4,041.27	5,246.84	5,145.22	101.61	51.635	
4,000.00	3,673.89	15,134.00	7,566.57	27.10	139.08	57.97	1,823.68	4,041.27	5,147.95	5,045.91	102.04	50.450	
4,100.00	3,757.59	15,134.00	7,566.57	28.18	139.08	57.97	1,823.68	4,041.27	5,049.12	4,946.63	102.48	49.267	
4,200.00	3,841.29	15,134.00	7,566.57	29.26	139.08	57.97	1,823.68	4,041.27	4,950.33	4,847.38	102.95	48.086	
4,300.00	3,924.99	15,134.00	7,566.57	30.35	139.08	57.97	1,823.68	4,041.27	4,851.58	4,748.16	103.43	46.908	
4,400.00	4,008.68	15,134.00	7,566.57	31.44	139.08	57.97	1,823.68	4,041.27	4,752.89	4,648.97	103.93	45.733	
4,500.00	4,092.38	15,134.00	7,566.57	32.52	139.08	57.97	1,823.68	4,041.27	4,654.26	4,549.81	104.45	44.561	
4,600.00	4,176.08	15,134.00	7,566.57	33.62	139.08	57.97	1,823.68	4,041.27	4,555.69	4,450.70	104.99	43.391	
4,700.00	4,259.77	15,134.00	7,566.57	34.71	139.08	57.97	1,823.68	4,041.27	4,457.18	4,351.62	105.56	42.226	
4,800.00	4,343.47	15,134.00	7,566.57	35.80	139.08	57.97	1,823.68	4,041.27	4,358.74	4,252.59	106.15	41.063	
4,900.00	4,427.17	15,134.00	7,566.57	36.89	139.08	57.97	1,823.68	4,041.27	4,260.37	4,153.60	106.76	39.905	
5,000.00	4,510.87	15,134.00	7,566.57	37.99	139.08	57.97	1,823.68	4,041.27	4,162.07	4,054.67	107.41	38.751	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	15,134.00	7,566.57	39.08	139.08	57.97	1,823.68	4,041.27	4,063.86	3,955.78	108.08	37.600	
5,200.00	4,678.26	15,134.00	7,566.57	40.18	139.08	57.97	1,823.68	4,041.27	3,965.75	3,856.96	108.79	36.455	
5,300.00	4,761.96	15,134.00	7,566.57	41.28	139.08	57.97	1,823.68	4,041.27	3,867.72	3,758.20	109.52	35.314	
5,400.00	4,845.66	15,134.00	7,566.57	42.37	139.08	57.97	1,823.68	4,041.27	3,769.80	3,659.51	110.30	34.178	
5,500.00	4,929.35	15,134.00	7,566.57	43.47	139.08	57.97	1,823.68	4,041.27	3,672.00	3,560.89	111.11	33.048	
5,600.00	5,013.05	15,134.00	7,566.57	44.57	139.08	57.97	1,823.68	4,041.27	3,574.31	3,462.34	111.97	31.923	
5,700.00	5,096.75	15,134.00	7,566.57	45.67	139.08	57.97	1,823.68	4,041.27	3,476.76	3,363.89	112.87	30.804	
5,800.00	5,180.45	15,134.00	7,566.57	46.77	139.08	57.97	1,823.68	4,041.27	3,379.35	3,265.53	113.82	29.691	
5,900.00	5,264.14	15,134.00	7,566.57	47.87	139.08	57.97	1,823.68	4,041.27	3,282.09	3,167.28	114.82	28.585	
6,000.00	5,347.84	15,134.00	7,566.57	48.97	139.08	57.97	1,823.68	4,041.27	3,185.01	3,069.13	115.87	27.487	
6,100.00	5,431.54	15,134.00	7,566.57	50.07	139.08	57.97	1,823.68	4,041.27	3,088.11	2,971.12	116.99	26.395	
6,200.00	5,515.23	15,134.00	7,566.57	51.17	139.08	57.97	1,823.68	4,041.27	2,991.41	2,873.23	118.18	25.312	
6,300.00	5,598.93	15,134.00	7,566.57	52.27	139.08	57.97	1,823.68	4,041.27	2,894.94	2,775.50	119.44	24.238	
6,400.00	5,682.63	15,134.00	7,566.57	53.38	139.08	57.97	1,823.68	4,041.27	2,798.72	2,677.94	120.78	23.172	
6,500.00	5,766.33	15,134.00	7,566.57	54.48	139.08	57.97	1,823.68	4,041.27	2,702.77	2,580.57	122.21	22.116	
6,600.00	5,850.02	15,134.00	7,566.57	55.58	139.08	57.97	1,823.68	4,041.27	2,607.13	2,483.40	123.73	21.071	
6,700.00	5,933.72	15,134.00	7,566.57	56.68	139.08	57.97	1,823.68	4,041.27	2,511.83	2,386.47	125.36	20.037	
6,800.00	6,017.42	15,134.00	7,566.57	57.79	139.08	57.97	1,823.68	4,041.27	2,416.90	2,289.80	127.10	19.016	
6,900.00	6,101.12	15,134.00	7,566.57	58.89	139.08	57.97	1,823.68	4,041.27	2,322.40	2,193.43	128.97	18.007	
7,000.00	6,184.81	15,134.00	7,566.57	59.99	139.08	57.97	1,823.68	4,041.27	2,228.38	2,097.40	130.99	17.012	
7,100.00	6,268.51	15,134.00	7,566.57	61.10	139.08	57.97	1,823.68	4,041.27	2,134.91	2,001.76	133.15	16.033	
7,200.00	6,352.21	15,134.00	7,566.57	62.20	139.08	57.97	1,823.68	4,041.27	2,042.05	1,906.56	135.49	15.071	
7,300.00	6,435.90	15,134.00	7,566.57	63.31	139.08	57.97	1,823.68	4,041.27	1,949.90	1,811.88	138.02	14.127	
7,400.00	6,519.60	15,134.00	7,566.57	64.41	139.08	57.97	1,823.68	4,041.27	1,858.56	1,717.80	140.76	13.203	
7,500.00	6,603.30	15,134.00	7,566.57	65.51	139.08	57.97	1,823.68	4,041.27	1,768.16	1,624.43	143.74	12.301	
7,600.00	6,687.00	15,134.00	7,566.57	66.62	139.08	57.97	1,823.68	4,041.27	1,678.85	1,531.89	146.96	11.424	
7,700.00	6,770.69	15,134.00	7,566.57	67.72	139.08	57.97	1,823.68	4,041.27	1,590.81	1,440.35	150.46	10.573	
7,800.00	6,854.39	15,112.56	7,566.10	68.83	138.71	56.63	1,845.12	4,040.94	1,504.12	1,350.91	153.21	9.817	
7,900.00	6,938.09	15,085.48	7,565.50	69.93	138.23	54.88	1,872.19	4,040.52	1,418.67	1,262.76	155.91	9.099	
7,933.18	6,965.86	15,076.83	7,565.31	70.30	138.08	54.32	1,880.84	4,040.39	1,390.63	1,233.75	156.88	8.864	
7,950.00	6,980.00	15,073.11	7,565.23	70.49	138.02	49.33	1,884.55	4,040.34	1,376.42	1,219.02	157.40	8.745	
8,000.00	7,022.68	15,064.46	7,565.04	71.01	137.87	33.51	1,893.20	4,040.21	1,333.93	1,174.92	159.01	8.389	
8,050.00	7,066.06	15,059.45	7,564.94	71.51	137.78	16.66	1,898.21	4,040.14	1,291.33	1,130.65	160.68	8.037	
8,100.00	7,109.82	15,058.17	7,564.92	71.97	137.76	-0.38	1,899.48	4,040.12	1,248.99	1,086.59	162.40	7.691	
8,150.00	7,153.63	15,060.71	7,564.97	72.38	137.80	-16.75	1,896.95	4,040.16	1,207.30	1,043.15	164.15	7.355	
8,200.00	7,197.14	15,067.10	7,565.10	72.74	137.92	-31.70	1,890.56	4,040.25	1,166.63	1,000.70	165.93	7.031	
8,250.00	7,240.04	15,077.38	7,565.32	73.05	138.09	-44.80	1,880.28	4,040.40	1,127.35	959.64	167.72	6.722	
8,300.00	7,281.99	15,093.03	7,565.67	73.31	138.37	-55.80	1,864.64	4,040.64	1,089.79	920.21	169.59	6.426	
8,350.00	7,322.67	15,112.93	7,566.11	73.52	138.71	-64.89	1,844.74	4,040.95	1,054.24	882.78	171.46	6.149	
8,400.00	7,361.77	15,136.76	7,566.63	73.68	139.13	-72.28	1,820.92	4,041.31	1,020.96	847.65	173.31	5.891	
8,450.00	7,399.01	15,134.00	7,566.57	73.78	139.08	-79.69	1,823.68	4,041.27	990.63	817.64	172.99	5.726	
8,500.00	7,434.08	15,134.00	7,566.57	73.85	139.08	-85.60	1,823.68	4,041.27	963.99	791.61	172.39	5.592	
8,550.00	7,466.74	15,134.00	7,566.57	73.87	139.08	-90.34	1,823.68	4,041.27	941.57	770.29	171.28	5.497	
8,600.00	7,496.72	15,134.00	7,566.57	73.85	139.08	-94.06	1,823.68	4,041.27	923.85	754.17	169.68	5.445	
8,650.00	7,523.80	15,134.00	7,566.57	73.79	139.08	-96.90	1,823.68	4,041.27	911.25	743.60	167.65	5.436	SF
8,700.00	7,547.77	15,134.00	7,566.57	73.70	139.08	-98.95	1,823.68	4,041.27	904.07	738.81	165.26	5.470	ES
8,738.87	7,564.14	15,134.00	7,566.57	73.60	139.08	-100.03	1,823.68	4,041.27	902.36	739.11	163.25	5.528	CC
8,750.00	7,568.45	15,134.00	7,566.57	73.58	139.08	-100.27	1,823.68	4,041.27	902.50	739.85	162.65	5.549	
8,800.00	7,585.69	15,134.00	7,566.57	73.43	139.08	-100.90	1,823.68	4,041.27	906.58	746.63	159.95	5.668	
8,850.00	7,599.35	15,134.00	7,566.57	73.26	139.08	-100.87	1,823.68	4,041.27	916.21	758.93	157.28	5.826	
8,900.00	7,609.33	15,134.00	7,566.57	73.07	139.08	-100.17	1,823.68	4,041.27	931.13	776.43	154.70	6.019	
8,950.00	7,615.55	15,134.00	7,566.57	72.87	139.08	-98.78	1,823.68	4,041.27	951.00	798.72	152.28	6.245	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	15,134.00	7,566.57	72.65	139.08	-96.65	1,823.68	4,041.27	975.36	825.34	150.02	6.501	
9,006.60	7,618.00	15,134.00	7,566.57	72.62	139.08	-96.31	1,823.68	4,041.27	978.89	829.15	149.74	6.537	
9,100.00	7,618.00	15,134.00	7,566.57	72.22	139.08	-96.31	1,823.68	4,041.27	1,032.26	886.25	146.02	7.070	
9,200.00	7,618.00	15,134.00	7,566.57	71.80	139.08	-96.31	1,823.68	4,041.27	1,095.37	952.81	142.56	7.684	
9,300.00	7,618.00	15,134.00	7,566.57	71.41	139.08	-96.31	1,823.68	4,041.27	1,163.65	1,024.18	139.47	8.343	
9,400.00	7,618.00	15,134.00	7,566.57	71.04	139.08	-96.31	1,823.68	4,041.27	1,236.27	1,099.60	136.67	9.046	
9,500.00	7,618.00	15,134.00	7,566.57	70.68	139.08	-96.31	1,823.68	4,041.27	1,312.48	1,178.39	134.09	9.788	
9,600.00	7,618.00	15,134.00	7,566.57	70.35	139.08	-96.31	1,823.68	4,041.27	1,391.72	1,259.99	131.72	10.565	
9,700.00	7,618.00	15,134.00	7,566.57	70.04	139.08	-96.31	1,823.68	4,041.27	1,473.48	1,343.93	129.55	11.374	
9,800.00	7,618.00	15,134.00	7,566.57	69.75	139.08	-96.31	1,823.68	4,041.27	1,557.37	1,429.83	127.55	12.210	
9,900.00	7,618.00	15,134.00	7,566.57	69.47	139.08	-96.31	1,823.68	4,041.27	1,643.07	1,517.36	125.71	13.070	
10,000.00	7,618.00	15,134.00	7,566.57	69.22	139.08	-96.31	1,823.68	4,041.27	1,730.30	1,606.27	124.03	13.950	
10,100.00	7,618.00	15,134.00	7,566.57	68.99	139.08	-96.31	1,823.68	4,041.27	1,818.85	1,696.35	122.50	14.848	
10,200.00	7,618.00	15,134.00	7,566.57	68.78	139.08	-96.31	1,823.68	4,041.27	1,908.52	1,787.43	121.09	15.761	
10,300.00	7,618.00	15,134.00	7,566.57	68.59	139.08	-96.31	1,823.68	4,041.27	1,999.18	1,879.37	119.81	16.687	
10,400.00	7,618.00	15,134.00	7,566.57	68.42	139.08	-96.31	1,823.68	4,041.27	2,090.69	1,972.06	118.63	17.623	
10,500.00	7,618.00	15,134.00	7,566.57	68.28	139.08	-96.31	1,823.68	4,041.27	2,182.95	2,065.39	117.56	18.569	
10,600.00	7,618.00	15,134.00	7,566.57	68.16	139.08	-96.31	1,823.68	4,041.27	2,275.86	2,159.28	116.58	19.522	
10,700.00	7,618.00	15,134.00	7,566.57	68.06	139.08	-96.31	1,823.68	4,041.27	2,369.34	2,253.66	115.68	20.482	
10,800.00	7,618.00	15,134.00	7,566.57	67.99	139.08	-96.31	1,823.68	4,041.27	2,463.34	2,348.48	114.86	21.447	
10,900.00	7,618.00	15,134.00	7,566.57	67.95	139.08	-96.31	1,823.68	4,041.27	2,557.79	2,443.69	114.11	22.416	
11,000.00	7,618.00	15,134.00	7,566.57	67.95	139.08	-96.31	1,823.68	4,041.27	2,652.65	2,539.24	113.42	23.389	
11,100.00	7,618.00	15,134.00	7,566.57	67.97	139.08	-96.31	1,823.68	4,041.27	2,747.88	2,635.09	112.78	24.364	
11,200.00	7,618.00	15,134.00	7,566.57	68.04	139.08	-96.31	1,823.68	4,041.27	2,843.43	2,731.23	112.20	25.341	
11,300.00	7,618.00	15,134.00	7,566.57	68.15	139.08	-96.31	1,823.68	4,041.27	2,939.28	2,827.61	111.67	26.321	
11,400.00	7,618.00	15,134.00	7,566.57	68.30	139.08	-96.31	1,823.68	4,041.27	3,035.40	2,924.21	111.18	27.301	
11,500.00	7,618.00	15,134.00	7,566.57	68.50	139.08	-96.31	1,823.68	4,041.27	3,131.76	3,021.02	110.73	28.282	
11,600.00	7,618.00	15,134.00	7,566.57	68.75	139.08	-96.31	1,823.68	4,041.27	3,228.34	3,118.01	110.32	29.263	
11,700.00	7,618.00	15,134.00	7,566.57	69.06	139.08	-96.31	1,823.68	4,041.27	3,325.12	3,215.18	109.94	30.244	
11,800.00	7,618.00	15,134.00	7,566.57	69.44	139.08	-96.31	1,823.68	4,041.27	3,422.09	3,312.49	109.59	31.225	
11,900.00	7,618.00	15,134.00	7,566.57	69.88	139.08	-96.31	1,823.68	4,041.27	3,519.23	3,409.95	109.27	32.206	
12,000.00	7,618.00	15,134.00	7,566.57	70.39	139.08	-96.31	1,823.68	4,041.27	3,616.52	3,507.54	108.98	33.186	
12,100.00	7,618.00	15,134.00	7,566.57	70.97	139.08	-96.31	1,823.68	4,041.27	3,713.96	3,605.25	108.70	34.166	
12,200.00	7,618.00	15,134.00	7,566.57	71.63	139.08	-96.31	1,823.68	4,041.27	3,811.53	3,703.07	108.45	35.144	
12,300.00	7,618.00	15,134.00	7,566.57	72.35	139.08	-96.31	1,823.68	4,041.27	3,909.22	3,801.00	108.22	36.122	
12,400.00	7,618.00	15,134.00	7,566.57	73.15	139.08	-96.31	1,823.68	4,041.27	4,007.03	3,899.02	108.01	37.099	
12,500.00	7,618.00	15,134.00	7,566.57	74.01	139.08	-96.31	1,823.68	4,041.27	4,104.94	3,997.13	107.81	38.074	
12,600.00	7,618.00	15,134.00	7,566.57	74.93	139.08	-96.31	1,823.68	4,041.27	4,202.95	4,095.32	107.63	39.049	
12,700.00	7,618.00	15,134.00	7,566.57	75.91	139.08	-96.31	1,823.68	4,041.27	4,301.05	4,193.58	107.47	40.022	
12,800.00	7,618.00	15,134.00	7,566.57	76.95	139.08	-96.31	1,823.68	4,041.27	4,399.24	4,291.93	107.32	40.994	
12,900.00	7,618.00	15,134.00	7,566.57	78.04	139.08	-96.31	1,823.68	4,041.27	4,497.51	4,390.33	107.18	41.964	
13,000.00	7,618.00	15,134.00	7,566.57	79.16	139.08	-96.31	1,823.68	4,041.27	4,595.85	4,488.80	107.05	42.933	
13,100.00	7,618.00	15,134.00	7,566.57	80.33	139.08	-96.31	1,823.68	4,041.27	4,694.26	4,587.34	106.93	43.901	
13,200.00	7,618.00	15,134.00	7,566.57	81.54	139.08	-96.31	1,823.68	4,041.27	4,792.74	4,685.92	106.82	44.868	
13,300.00	7,618.00	15,134.00	7,566.57	82.78	139.08	-96.31	1,823.68	4,041.27	4,891.28	4,784.56	106.72	45.833	
13,400.00	7,618.00	15,134.00	7,566.57	84.05	139.08	-96.31	1,823.68	4,041.27	4,989.88	4,883.25	106.63	46.797	
13,500.00	7,618.00	15,134.00	7,566.57	85.35	139.08	-96.31	1,823.68	4,041.27	5,088.53	4,981.99	106.54	47.760	
13,600.00	7,618.00	15,134.00	7,566.57	86.67	139.08	-96.31	1,823.68	4,041.27	5,187.24	5,080.77	106.47	48.721	
13,700.00	7,618.00	15,134.00	7,566.57	88.02	139.08	-96.31	1,823.68	4,041.27	5,285.99	5,179.59	106.40	49.681	
13,800.00	7,618.00	15,134.00	7,566.57	89.38	139.08	-96.31	1,823.68	4,041.27	5,384.79	5,278.45	106.34	50.639	
13,900.00	7,618.00	15,134.00	7,566.57	90.77	139.08	-96.31	1,823.68	4,041.27	5,483.63	5,377.35	106.28	51.596	
14,000.00	7,618.00	15,134.00	7,566.57	92.17	139.08	-96.31	1,823.68	4,041.27	5,582.52	5,476.29	106.23	52.552	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,618.00	15,134.00	7,566.57	93.59	139.08	-96.31	1,823.68	4,041.27	5,681.44	5,575.26	106.18	53.507	
14,200.00	7,618.00	15,134.00	7,566.57	95.02	139.08	-96.31	1,823.68	4,041.27	5,780.40	5,674.26	106.14	54.460	
14,300.00	7,618.00	15,134.00	7,566.57	96.47	139.08	-96.31	1,823.68	4,041.27	5,879.39	5,773.29	106.10	55.412	
14,400.00	7,618.00	15,134.00	7,566.57	97.93	139.08	-96.31	1,823.68	4,041.27	5,978.42	5,872.35	106.07	56.363	
14,500.00	7,618.00	15,134.00	7,566.57	99.41	139.08	-96.31	1,823.68	4,041.27	6,077.48	5,971.44	106.04	57.313	
14,600.00	7,618.00	15,134.00	7,566.57	100.89	139.08	-96.31	1,823.68	4,041.27	6,176.57	6,070.56	106.02	58.261	
14,700.00	7,618.00	15,134.00	7,566.57	102.38	139.08	-96.31	1,823.68	4,041.27	6,275.69	6,169.70	105.99	59.208	
14,800.00	7,618.00	15,134.00	7,566.57	103.89	139.08	-96.31	1,823.68	4,041.27	6,374.84	6,268.87	105.97	60.154	
14,900.00	7,618.00	15,134.00	7,566.57	105.40	139.08	-96.31	1,823.68	4,041.27	6,474.01	6,368.05	105.96	61.099	
15,000.00	7,618.00	15,134.00	7,566.57	106.92	139.08	-96.31	1,823.68	4,041.27	6,573.21	6,467.27	105.95	62.043	
15,100.00	7,618.00	15,134.00	7,566.57	108.45	139.08	-96.31	1,823.68	4,041.27	6,672.43	6,566.50	105.94	62.985	
15,200.00	7,618.00	15,134.00	7,566.57	109.99	139.08	-96.31	1,823.68	4,041.27	6,771.68	6,665.75	105.93	63.926	
15,300.00	7,618.00	15,134.00	7,566.57	111.54	139.08	-96.31	1,823.68	4,041.27	6,870.95	6,765.02	105.92	64.866	
15,400.00	7,618.00	15,134.00	7,566.57	113.09	139.08	-96.31	1,823.68	4,041.27	6,970.24	6,864.31	105.92	65.805	
15,500.00	7,618.00	15,134.00	7,566.57	114.65	139.08	-96.31	1,823.68	4,041.27	7,069.54	6,963.62	105.92	66.743	
15,600.00	7,618.00	15,134.00	7,566.57	116.21	139.08	-96.31	1,823.68	4,041.27	7,168.87	7,062.95	105.92	67.680	
15,700.00	7,618.00	15,134.00	7,566.57	117.78	139.08	-96.31	1,823.68	4,041.27	7,268.22	7,162.29	105.93	68.615	
15,800.00	7,618.00	15,134.00	7,566.57	119.36	139.08	-96.31	1,823.68	4,041.27	7,367.58	7,261.65	105.93	69.550	
15,900.00	7,618.00	15,134.00	7,566.57	120.94	139.08	-96.31	1,823.68	4,041.27	7,466.96	7,361.02	105.94	70.483	
16,000.00	7,618.00	15,134.00	7,566.57	122.53	139.08	-96.31	1,823.68	4,041.27	7,566.36	7,460.41	105.95	71.416	
16,100.00	7,618.00	15,134.00	7,566.57	124.12	139.08	-96.31	1,823.68	4,041.27	7,665.77	7,559.81	105.96	72.347	
16,200.00	7,618.00	15,134.00	7,566.57	125.72	139.08	-96.31	1,823.68	4,041.27	7,765.20	7,659.23	105.97	73.277	
16,300.00	7,618.00	15,134.00	7,566.57	127.32	139.08	-96.31	1,823.68	4,041.27	7,864.64	7,758.66	105.98	74.206	
16,400.00	7,618.00	15,134.00	7,566.57	128.93	139.08	-96.31	1,823.68	4,041.27	7,964.10	7,858.10	106.00	75.134	
16,500.00	7,618.00	15,134.00	7,566.57	130.54	139.08	-96.31	1,823.68	4,041.27	8,063.56	7,957.55	106.01	76.061	
16,600.00	7,618.00	15,134.00	7,566.57	132.15	139.08	-96.31	1,823.68	4,041.27	8,163.05	8,057.02	106.03	76.987	
16,700.00	7,618.00	15,134.00	7,566.57	133.77	139.08	-96.31	1,823.68	4,041.27	8,262.54	8,156.49	106.05	77.912	
16,800.00	7,618.00	15,134.00	7,566.57	135.39	139.08	-96.31	1,823.68	4,041.27	8,362.05	8,255.98	106.07	78.836	
16,900.00	7,618.00	15,134.00	7,566.57	137.01	139.08	-96.31	1,823.68	4,041.27	8,461.57	8,355.48	106.09	79.759	
17,000.00	7,618.00	15,134.00	7,566.57	138.64	139.08	-96.31	1,823.68	4,041.27	8,561.10	8,454.99	106.11	80.681	
17,100.00	7,618.00	15,134.00	7,566.57	140.27	139.08	-96.31	1,823.68	4,041.27	8,660.64	8,554.51	106.13	81.602	
17,200.00	7,618.00	15,134.00	7,566.57	141.91	139.08	-96.31	1,823.68	4,041.27	8,760.19	8,654.03	106.16	82.522	
17,300.00	7,618.00	15,134.00	7,566.57	143.55	139.08	-96.31	1,823.68	4,041.27	8,859.75	8,753.57	106.18	83.441	
17,400.00	7,618.00	15,134.00	7,566.57	145.19	139.08	-96.31	1,823.68	4,041.27	8,959.32	8,853.12	106.21	84.358	
17,500.00	7,618.00	15,134.00	7,566.57	146.83	139.08	-96.31	1,823.68	4,041.27	9,058.90	8,952.67	106.23	85.275	
17,600.00	7,618.00	15,134.00	7,566.57	148.48	139.08	-96.31	1,823.68	4,041.27	9,158.49	9,052.23	106.26	86.191	
17,700.00	7,618.00	15,134.00	7,566.57	150.13	139.08	-96.31	1,823.68	4,041.27	9,258.09	9,151.81	106.29	87.106	
17,800.00	7,618.00	15,134.00	7,566.57	151.78	139.08	-96.31	1,823.68	4,041.27	9,357.70	9,251.38	106.31	88.020	
17,900.00	7,618.00	15,134.00	7,566.57	153.43	139.08	-96.31	1,823.68	4,041.27	9,457.31	9,350.97	106.34	88.933	
18,000.00	7,618.00	15,134.00	7,566.57	155.09	139.08	-96.31	1,823.68	4,041.27	9,556.94	9,450.56	106.37	89.844	
18,100.00	7,618.00	15,134.00	7,566.57	156.75	139.08	-96.31	1,823.68	4,041.27	9,656.57	9,550.17	106.40	90.755	
18,200.00	7,618.00	15,134.00	7,566.57	158.41	139.08	-96.31	1,823.68	4,041.27	9,756.21	9,649.77	106.43	91.665	
18,300.00	7,618.00	15,134.00	7,566.57	160.07	139.08	-96.31	1,823.68	4,041.27	9,855.85	9,749.39	106.46	92.574	
18,400.00	7,618.00	15,134.00	7,566.57	161.74	139.08	-96.31	1,823.68	4,041.27	9,955.51	9,849.01	106.50	93.482	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	15,352.00	7,829.29	0.00	138.31	71.42	1,855.54	5,520.09	9,858.25				
100.00	100.00	15,352.00	7,829.29	0.13	138.31	71.42	1,855.54	5,520.09	9,777.74	9,683.39	94.35	103.632	
200.00	200.00	15,352.00	7,829.29	0.49	138.31	71.42	1,855.54	5,520.09	9,697.60	9,602.80	94.79	102.302	
300.00	300.00	15,352.00	7,829.29	0.85	138.31	71.42	1,855.54	5,520.09	9,617.82	9,522.55	95.27	100.951	
400.00	400.00	15,352.00	7,829.29	1.21	138.31	71.42	1,855.54	5,520.09	9,538.43	9,442.65	95.79	99.581	
500.00	500.00	15,352.00	7,829.29	1.57	138.31	71.42	1,855.54	5,520.09	9,459.43	9,363.10	96.33	98.196	
600.00	600.00	15,352.00	7,829.29	1.93	138.31	71.42	1,855.54	5,520.09	9,380.83	9,283.92	96.91	96.800	
700.00	700.00	15,352.00	7,829.29	2.29	138.31	71.42	1,855.54	5,520.09	9,302.64	9,205.13	97.51	95.399	
800.00	800.00	15,352.00	7,829.29	2.64	138.31	71.42	1,855.54	5,520.09	9,224.87	9,126.73	98.14	93.995	
900.00	900.00	15,352.00	7,829.29	3.00	138.31	71.42	1,855.54	5,520.09	9,147.54	9,048.74	98.79	92.591	
1,000.00	999.98	15,352.00	7,829.29	3.36	138.31	14.86	1,855.54	5,520.09	9,069.57	8,970.10	99.47	91.180	
1,100.00	1,099.84	15,352.00	7,829.29	3.71	138.31	15.55	1,855.54	5,520.09	8,989.95	8,889.80	100.15	89.765	
1,200.00	1,199.45	15,352.00	7,829.29	4.07	138.31	16.31	1,855.54	5,520.09	8,908.72	8,807.90	100.82	88.362	
1,300.00	1,298.70	15,352.00	7,829.29	4.44	138.31	17.16	1,855.54	5,520.09	8,825.94	8,724.46	101.48	86.973	
1,400.00	1,397.47	15,352.00	7,829.29	4.82	138.31	18.11	1,855.54	5,520.09	8,741.67	8,639.55	102.13	85.597	
1,500.00	1,495.62	15,352.00	7,829.29	5.22	138.31	19.17	1,855.54	5,520.09	8,655.98	8,553.22	102.76	84.237	
1,600.00	1,593.06	15,352.00	7,829.29	5.65	138.31	20.37	1,855.54	5,520.09	8,568.91	8,465.53	103.38	82.891	
1,700.00	1,689.64	15,352.00	7,829.29	6.11	138.31	21.72	1,855.54	5,520.09	8,480.54	8,376.56	103.98	81.560	
1,800.00	1,785.27	15,352.00	7,829.29	6.61	138.31	23.27	1,855.54	5,520.09	8,390.94	8,286.38	104.57	80.245	
1,900.00	1,879.82	15,352.00	7,829.29	7.15	138.31	25.04	1,855.54	5,520.09	8,300.18	8,195.04	105.14	78.946	
2,000.00	1,973.17	15,352.00	7,829.29	7.73	138.31	27.08	1,855.54	5,520.09	8,208.33	8,102.63	105.69	77.663	
2,100.00	2,065.21	15,352.00	7,829.29	8.37	138.31	29.45	1,855.54	5,520.09	8,115.46	8,009.23	106.23	76.396	
2,200.00	2,155.84	15,352.00	7,829.29	9.07	138.31	32.22	1,855.54	5,520.09	8,021.67	7,914.92	106.75	75.145	
2,300.00	2,244.94	15,352.00	7,829.29	9.82	138.31	35.49	1,855.54	5,520.09	7,927.02	7,819.77	107.25	73.912	
2,400.00	2,332.39	15,352.00	7,829.29	10.64	138.31	39.36	1,855.54	5,520.09	7,831.62	7,723.89	107.73	72.695	
2,500.00	2,418.11	15,352.00	7,829.29	11.53	138.31	43.96	1,855.54	5,520.09	7,735.54	7,627.35	108.20	71.495	
2,558.91	2,467.74	15,352.00	7,829.29	12.08	138.31	47.08	1,855.54	5,520.09	7,678.67	7,570.21	108.46	70.796	
2,600.00	2,502.13	15,352.00	7,829.29	12.47	138.31	47.08	1,855.54	5,520.09	7,638.94	7,530.29	108.65	70.311	
2,700.00	2,585.83	15,352.00	7,829.29	13.45	138.31	47.08	1,855.54	5,520.09	7,542.31	7,433.21	109.10	69.133	
2,800.00	2,669.53	15,352.00	7,829.29	14.44	138.31	47.08	1,855.54	5,520.09	7,445.77	7,336.21	109.57	67.956	
2,900.00	2,753.22	15,352.00	7,829.29	15.46	138.31	47.08	1,855.54	5,520.09	7,349.33	7,239.27	110.06	66.778	
3,000.00	2,836.92	15,352.00	7,829.29	16.48	138.31	47.08	1,855.54	5,520.09	7,252.98	7,142.42	110.56	65.602	
3,100.00	2,920.62	15,352.00	7,829.29	17.52	138.31	47.08	1,855.54	5,520.09	7,156.73	7,045.65	111.08	64.427	
3,200.00	3,004.32	15,352.00	7,829.29	18.56	138.31	47.08	1,855.54	5,520.09	7,060.59	6,948.97	111.62	63.254	
3,300.00	3,088.01	15,352.00	7,829.29	19.61	138.31	47.08	1,855.54	5,520.09	6,964.55	6,852.37	112.18	62.084	
3,400.00	3,171.71	15,352.00	7,829.29	20.67	138.31	47.08	1,855.54	5,520.09	6,868.63	6,755.87	112.76	60.915	
3,500.00	3,255.41	15,352.00	7,829.29	21.73	138.31	47.08	1,855.54	5,520.09	6,772.82	6,659.47	113.35	59.750	
3,600.00	3,339.10	15,352.00	7,829.29	22.80	138.31	47.08	1,855.54	5,520.09	6,677.14	6,563.18	113.97	58.588	
3,700.00	3,422.80	15,352.00	7,829.29	23.87	138.31	47.08	1,855.54	5,520.09	6,581.59	6,466.99	114.60	57.430	
3,800.00	3,506.50	15,352.00	7,829.29	24.94	138.31	47.08	1,855.54	5,520.09	6,486.17	6,370.91	115.26	56.275	
3,900.00	3,590.20	15,352.00	7,829.29	26.02	138.31	47.08	1,855.54	5,520.09	6,390.89	6,274.96	115.93	55.125	
4,000.00	3,673.89	15,352.00	7,829.29	27.10	138.31	47.08	1,855.54	5,520.09	6,295.76	6,179.13	116.63	53.980	
4,100.00	3,757.59	15,352.00	7,829.29	28.18	138.31	47.08	1,855.54	5,520.09	6,200.78	6,083.43	117.35	52.840	
4,200.00	3,841.29	15,352.00	7,829.29	29.26	138.31	47.08	1,855.54	5,520.09	6,105.96	5,987.87	118.09	51.705	
4,300.00	3,924.99	15,352.00	7,829.29	30.35	138.31	47.08	1,855.54	5,520.09	6,011.31	5,892.45	118.86	50.575	
4,400.00	4,008.68	15,352.00	7,829.29	31.44	138.31	47.08	1,855.54	5,520.09	5,916.83	5,797.19	119.65	49.452	
4,500.00	4,092.38	15,352.00	7,829.29	32.52	138.31	47.08	1,855.54	5,520.09	5,822.54	5,702.08	120.46	48.334	
4,600.00	4,176.08	15,352.00	7,829.29	33.62	138.31	47.08	1,855.54	5,520.09	5,728.45	5,607.14	121.30	47.224	
4,700.00	4,259.77	15,352.00	7,829.29	34.71	138.31	47.08	1,855.54	5,520.09	5,634.55	5,512.38	122.17	46.120	
4,800.00	4,343.47	15,352.00	7,829.29	35.80	138.31	47.08	1,855.54	5,520.09	5,540.87	5,417.81	123.07	45.023	
4,900.00	4,427.17	15,352.00	7,829.29	36.89	138.31	47.08	1,855.54	5,520.09	5,447.42	5,323.43	123.99	43.934	
5,000.00	4,510.87	15,352.00	7,829.29	37.99	138.31	47.08	1,855.54	5,520.09	5,354.20	5,229.26	124.94	42.853	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	15,352.00	7,829.29	39.08	138.31	47.08	1,855.54	5,520.09	5,261.23	5,135.30	125.93	41.780	
5,200.00	4,678.26	15,352.00	7,829.29	40.18	138.31	47.08	1,855.54	5,520.09	5,168.52	5,041.58	126.94	40.715	
5,300.00	4,761.96	15,352.00	7,829.29	41.28	138.31	47.08	1,855.54	5,520.09	5,076.09	4,948.10	127.99	39.659	
5,400.00	4,845.66	15,352.00	7,829.29	42.37	138.31	47.08	1,855.54	5,520.09	4,983.95	4,854.88	129.08	38.612	
5,500.00	4,929.35	15,352.00	7,829.29	43.47	138.31	47.08	1,855.54	5,520.09	4,892.12	4,761.93	130.20	37.575	
5,600.00	5,013.05	15,352.00	7,829.29	44.57	138.31	47.08	1,855.54	5,520.09	4,800.62	4,669.27	131.35	36.547	
5,700.00	5,096.75	15,352.00	7,829.29	45.67	138.31	47.08	1,855.54	5,520.09	4,709.46	4,576.91	132.55	35.530	
5,800.00	5,180.45	15,352.00	7,829.29	46.77	138.31	47.08	1,855.54	5,520.09	4,618.67	4,484.89	133.79	34.523	
5,900.00	5,264.14	15,352.00	7,829.29	47.87	138.31	47.08	1,855.54	5,520.09	4,528.27	4,393.20	135.06	33.527	
6,000.00	5,347.84	15,352.00	7,829.29	48.97	138.31	47.08	1,855.54	5,520.09	4,438.28	4,301.89	136.38	32.542	
6,100.00	5,431.54	15,352.00	7,829.29	50.07	138.31	47.08	1,855.54	5,520.09	4,348.72	4,210.97	137.75	31.570	
6,200.00	5,515.23	15,352.00	7,829.29	51.17	138.31	47.08	1,855.54	5,520.09	4,259.63	4,120.47	139.16	30.609	
6,300.00	5,598.93	15,352.00	7,829.29	52.27	138.31	47.08	1,855.54	5,520.09	4,171.04	4,030.41	140.62	29.661	
6,400.00	5,682.63	15,352.00	7,829.29	53.38	138.31	47.08	1,855.54	5,520.09	4,082.97	3,940.83	142.14	28.726	
6,500.00	5,766.33	15,352.00	7,829.29	54.48	138.31	47.08	1,855.54	5,520.09	3,995.46	3,851.77	143.70	27.805	
6,600.00	5,850.02	15,352.00	7,829.29	55.58	138.31	47.08	1,855.54	5,520.09	3,908.56	3,763.24	145.31	26.897	
6,700.00	5,933.72	15,352.00	7,829.29	56.68	138.31	47.08	1,855.54	5,520.09	3,822.29	3,675.31	146.98	26.005	
6,800.00	6,017.42	15,352.00	7,829.29	57.79	138.31	47.08	1,855.54	5,520.09	3,736.71	3,588.00	148.71	25.127	
6,900.00	6,101.12	15,352.00	7,829.29	58.89	138.31	47.08	1,855.54	5,520.09	3,651.86	3,501.36	150.50	24.265	
7,000.00	6,184.81	15,352.00	7,829.29	59.99	138.31	47.08	1,855.54	5,520.09	3,567.79	3,415.45	152.34	23.420	
7,100.00	6,268.51	15,352.00	7,829.29	61.10	138.31	47.08	1,855.54	5,520.09	3,484.57	3,330.33	154.24	22.591	
7,200.00	6,352.21	15,352.00	7,829.29	62.20	138.31	47.08	1,855.54	5,520.09	3,402.25	3,246.04	156.21	21.780	
7,300.00	6,435.90	15,352.00	7,829.29	63.31	138.31	47.08	1,855.54	5,520.09	3,320.91	3,162.67	158.23	20.987	
7,400.00	6,519.60	15,352.00	7,829.29	64.41	138.31	47.08	1,855.54	5,520.09	3,240.60	3,080.28	160.32	20.213	
7,500.00	6,603.30	15,352.00	7,829.29	65.51	138.31	47.08	1,855.54	5,520.09	3,161.42	2,998.96	162.47	19.459	
7,600.00	6,687.00	15,352.00	7,829.29	66.62	138.31	47.08	1,855.54	5,520.09	3,083.45	2,918.78	164.67	18.725	
7,700.00	6,770.69	15,352.00	7,829.29	67.72	138.31	47.08	1,855.54	5,520.09	3,006.79	2,839.86	166.93	18.012	
7,800.00	6,854.39	15,352.00	7,829.29	68.83	138.31	47.08	1,855.54	5,520.09	2,931.53	2,762.29	169.24	17.322	
7,900.00	6,938.09	15,349.90	7,829.24	69.93	138.27	47.02	1,857.63	5,520.09	2,857.78	2,686.26	171.53	16.661	
7,933.18	6,965.86	15,340.67	7,829.04	70.30	138.11	46.77	1,866.86	5,520.09	2,833.65	2,661.63	172.02	16.473	
7,950.00	6,980.00	15,336.23	7,828.94	70.49	138.03	42.64	1,871.30	5,520.10	2,821.42	2,649.15	172.27	16.378	
8,000.00	7,022.68	15,325.87	7,828.71	71.01	137.85	29.55	1,881.67	5,520.10	2,784.80	2,611.76	173.04	16.093	
8,050.00	7,066.06	15,319.80	7,828.58	71.51	137.75	15.54	1,887.73	5,520.11	2,748.00	2,574.17	173.84	15.808	
8,100.00	7,109.82	15,318.08	7,828.54	71.97	137.72	1.11	1,889.45	5,520.11	2,711.35	2,536.70	174.64	15.525	
8,150.00	7,153.63	15,320.72	7,828.60	72.38	137.76	-13.12	1,886.81	5,520.11	2,675.12	2,499.67	175.45	15.247	
8,200.00	7,197.14	15,327.70	7,828.75	72.74	137.89	-26.53	1,879.83	5,520.10	2,639.62	2,463.35	176.27	14.975	
8,250.00	7,240.04	15,338.97	7,829.00	73.05	138.08	-38.69	1,868.57	5,520.10	2,605.10	2,428.03	177.08	14.712	
8,300.00	7,281.99	15,354.44	7,829.35	73.31	138.35	-49.38	1,853.10	5,520.09	2,571.84	2,393.96	177.88	14.459	
8,350.00	7,322.67	15,352.00	7,829.29	73.52	138.31	-59.09	1,855.54	5,520.09	2,540.14	2,362.24	177.90	14.279	
8,400.00	7,361.77	15,352.00	7,829.29	73.68	138.31	-67.33	1,855.54	5,520.09	2,510.34	2,332.50	177.84	14.116	
8,450.00	7,399.01	15,352.00	7,829.29	73.78	138.31	-74.31	1,855.54	5,520.09	2,482.75	2,305.14	177.61	13.979	
8,500.00	7,434.08	15,352.00	7,829.29	73.85	138.31	-80.16	1,855.54	5,520.09	2,457.66	2,280.44	177.22	13.868	
8,550.00	7,466.74	15,352.00	7,829.29	73.87	138.31	-85.02	1,855.54	5,520.09	2,435.33	2,258.66	176.67	13.785	
8,600.00	7,496.72	15,352.00	7,829.29	73.85	138.31	-89.01	1,855.54	5,520.09	2,416.01	2,240.04	175.97	13.729	
8,650.00	7,523.80	15,352.00	7,829.29	73.79	138.31	-92.24	1,855.54	5,520.09	2,399.93	2,224.79	175.14	13.703	SF
8,700.00	7,547.77	15,352.00	7,829.29	73.70	138.31	-94.79	1,855.54	5,520.09	2,387.27	2,213.08	174.19	13.705	
8,750.00	7,568.45	15,352.00	7,829.29	73.58	138.31	-96.72	1,855.54	5,520.09	2,378.19	2,205.04	173.14	13.735	
8,800.00	7,585.69	15,352.00	7,829.29	73.43	138.31	-98.09	1,855.54	5,520.09	2,372.79	2,200.77	172.01	13.794	
8,846.84	7,598.59	15,352.00	7,829.29	73.27	138.31	-98.89	1,855.54	5,520.09	2,371.13	2,200.22	170.91	13.874	CC, ES
8,850.00	7,599.35	15,352.00	7,829.29	73.26	138.31	-98.93	1,855.54	5,520.09	2,371.14	2,200.30	170.83	13.880	
8,900.00	7,609.33	15,352.00	7,829.29	73.07	138.31	-99.26	1,855.54	5,520.09	2,373.26	2,203.64	169.62	13.991	
8,950.00	7,615.55	15,352.00	7,829.29	72.87	138.31	-99.10	1,855.54	5,520.09	2,379.13	2,210.73	168.40	14.128	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	15,352.00	7,829.29	72.65	138.31	-98.45	1,855.54	5,520.09	2,388.68	2,221.48	167.19	14.287	
9,006.60	7,618.00	15,352.00	7,829.29	72.62	138.31	-98.33	1,855.54	5,520.09	2,390.21	2,223.17	167.03	14.310	
9,100.00	7,618.00	15,352.00	7,829.29	72.22	138.31	-98.33	1,855.54	5,520.09	2,413.98	2,249.06	164.92	14.637	
9,200.00	7,618.00	15,352.00	7,829.29	71.80	138.31	-98.33	1,855.54	5,520.09	2,443.14	2,280.20	162.95	14.994	
9,300.00	7,618.00	15,352.00	7,829.29	71.41	138.31	-98.33	1,855.54	5,520.09	2,476.00	2,314.73	161.27	15.353	
9,400.00	7,618.00	15,352.00	7,829.29	71.04	138.31	-98.33	1,855.54	5,520.09	2,512.41	2,352.53	159.88	15.714	
9,500.00	7,618.00	15,352.00	7,829.29	70.68	138.31	-98.33	1,855.54	5,520.09	2,552.23	2,393.48	158.75	16.077	
9,600.00	7,618.00	15,352.00	7,829.29	70.35	138.31	-98.33	1,855.54	5,520.09	2,595.28	2,437.46	157.83	16.444	
9,700.00	7,618.00	15,352.00	7,829.29	70.04	138.31	-98.33	1,855.54	5,520.09	2,641.43	2,484.36	157.07	16.817	
9,800.00	7,618.00	15,352.00	7,829.29	69.75	138.31	-98.33	1,855.54	5,520.09	2,690.50	2,534.06	156.43	17.199	
9,900.00	7,618.00	15,352.00	7,829.29	69.47	138.31	-98.33	1,855.54	5,520.09	2,742.34	2,586.45	155.89	17.592	
10,000.00	7,618.00	15,352.00	7,829.29	69.22	138.31	-98.33	1,855.54	5,520.09	2,796.79	2,641.40	155.40	17.998	
10,100.00	7,618.00	15,352.00	7,829.29	68.99	138.31	-98.33	1,855.54	5,520.09	2,853.71	2,698.77	154.94	18.418	
10,200.00	7,618.00	15,352.00	7,829.29	68.78	138.31	-98.33	1,855.54	5,520.09	2,912.96	2,758.45	154.51	18.853	
10,300.00	7,618.00	15,352.00	7,829.29	68.59	138.31	-98.33	1,855.54	5,520.09	2,974.38	2,820.30	154.08	19.304	
10,400.00	7,618.00	15,352.00	7,829.29	68.42	138.31	-98.33	1,855.54	5,520.09	3,037.86	2,884.21	153.66	19.771	
10,500.00	7,618.00	15,352.00	7,829.29	68.28	138.31	-98.33	1,855.54	5,520.09	3,103.26	2,950.04	153.22	20.253	
10,600.00	7,618.00	15,352.00	7,829.29	68.16	138.31	-98.33	1,855.54	5,520.09	3,170.47	3,017.68	152.79	20.751	
10,700.00	7,618.00	15,352.00	7,829.29	68.06	138.31	-98.33	1,855.54	5,520.09	3,239.37	3,087.03	152.34	21.264	
10,800.00	7,618.00	15,352.00	7,829.29	67.99	138.31	-98.33	1,855.54	5,520.09	3,309.86	3,157.98	151.88	21.792	
10,900.00	7,618.00	15,352.00	7,829.29	67.95	138.31	-98.33	1,855.54	5,520.09	3,381.83	3,230.42	151.42	22.335	
11,000.00	7,618.00	15,352.00	7,829.29	67.95	138.31	-98.33	1,855.54	5,520.09	3,455.20	3,304.26	150.95	22.890	
11,100.00	7,618.00	15,352.00	7,829.29	67.97	138.31	-98.33	1,855.54	5,520.09	3,529.88	3,379.41	150.47	23.459	
11,200.00	7,618.00	15,352.00	7,829.29	68.04	138.31	-98.33	1,855.54	5,520.09	3,605.79	3,455.80	149.99	24.041	
11,300.00	7,618.00	15,352.00	7,829.29	68.15	138.31	-98.33	1,855.54	5,520.09	3,682.84	3,533.34	149.50	24.634	
11,400.00	7,618.00	15,352.00	7,829.29	68.30	138.31	-98.33	1,855.54	5,520.09	3,760.98	3,611.96	149.02	25.238	
11,500.00	7,618.00	15,352.00	7,829.29	68.50	138.31	-98.33	1,855.54	5,520.09	3,840.13	3,691.60	148.53	25.854	
11,600.00	7,618.00	15,352.00	7,829.29	68.75	138.31	-98.33	1,855.54	5,520.09	3,920.24	3,772.19	148.05	26.479	
11,700.00	7,618.00	15,352.00	7,829.29	69.06	138.31	-98.33	1,855.54	5,520.09	4,001.24	3,853.67	147.57	27.114	
11,800.00	7,618.00	15,352.00	7,829.29	69.44	138.31	-98.33	1,855.54	5,520.09	4,083.08	3,935.99	147.09	27.758	
11,900.00	7,618.00	15,352.00	7,829.29	69.88	138.31	-98.33	1,855.54	5,520.09	4,165.71	4,019.09	146.62	28.411	
12,000.00	7,618.00	15,352.00	7,829.29	70.39	138.31	-98.33	1,855.54	5,520.09	4,249.09	4,102.94	146.16	29.073	
12,100.00	7,618.00	15,352.00	7,829.29	70.97	138.31	-98.33	1,855.54	5,520.09	4,333.18	4,187.48	145.70	29.741	
12,200.00	7,618.00	15,352.00	7,829.29	71.63	138.31	-98.33	1,855.54	5,520.09	4,417.93	4,272.68	145.24	30.418	
12,300.00	7,618.00	15,352.00	7,829.29	72.35	138.31	-98.33	1,855.54	5,520.09	4,503.30	4,358.50	144.80	31.101	
12,400.00	7,618.00	15,352.00	7,829.29	73.15	138.31	-98.33	1,855.54	5,520.09	4,589.27	4,444.90	144.36	31.790	
12,500.00	7,618.00	15,352.00	7,829.29	74.01	138.31	-98.33	1,855.54	5,520.09	4,675.79	4,531.86	143.93	32.486	
12,600.00	7,618.00	15,352.00	7,829.29	74.93	138.31	-98.33	1,855.54	5,520.09	4,762.84	4,619.33	143.51	33.188	
12,700.00	7,618.00	15,352.00	7,829.29	75.91	138.31	-98.33	1,855.54	5,520.09	4,850.39	4,707.29	143.10	33.895	
12,800.00	7,618.00	15,352.00	7,829.29	76.95	138.31	-98.33	1,855.54	5,520.09	4,938.41	4,795.71	142.70	34.607	
12,900.00	7,618.00	15,352.00	7,829.29	78.04	138.31	-98.33	1,855.54	5,520.09	5,026.88	4,884.58	142.31	35.324	
13,000.00	7,618.00	15,352.00	7,829.29	79.16	138.31	-98.33	1,855.54	5,520.09	5,115.78	4,973.85	141.92	36.046	
13,100.00	7,618.00	15,352.00	7,829.29	80.33	138.31	-98.33	1,855.54	5,520.09	5,205.08	5,063.53	141.55	36.772	
13,200.00	7,618.00	15,352.00	7,829.29	81.54	138.31	-98.33	1,855.54	5,520.09	5,294.76	5,153.57	141.18	37.502	
13,300.00	7,618.00	15,352.00	7,829.29	82.78	138.31	-98.33	1,855.54	5,520.09	5,384.80	5,243.97	140.83	38.237	
13,400.00	7,618.00	15,352.00	7,829.29	84.05	138.31	-98.33	1,855.54	5,520.09	5,475.19	5,334.71	140.48	38.974	
13,500.00	7,618.00	15,352.00	7,829.29	85.35	138.31	-98.33	1,855.54	5,520.09	5,565.91	5,425.77	140.14	39.715	
13,600.00	7,618.00	15,352.00	7,829.29	86.67	138.31	-98.33	1,855.54	5,520.09	5,656.94	5,517.13	139.82	40.460	
13,700.00	7,618.00	15,352.00	7,829.29	88.02	138.31	-98.33	1,855.54	5,520.09	5,748.27	5,608.78	139.50	41.207	
13,800.00	7,618.00	15,352.00	7,829.29	89.38	138.31	-98.33	1,855.54	5,520.09	5,839.89	5,700.70	139.19	41.958	
13,900.00	7,618.00	15,352.00	7,829.29	90.77	138.31	-98.33	1,855.54	5,520.09	5,931.77	5,792.89	138.88	42.711	
14,000.00	7,618.00	15,352.00	7,829.29	92.17	138.31	-98.33	1,855.54	5,520.09	6,023.92	5,885.33	138.59	43.466	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,618.00	15,352.00	7,829.29	93.59	138.31	-98.33	1,855.54	5,520.09	6,116.31	5,978.00	138.30	44.224	
14,200.00	7,618.00	15,352.00	7,829.29	95.02	138.31	-98.33	1,855.54	5,520.09	6,208.93	6,070.91	138.03	44.984	
14,300.00	7,618.00	15,352.00	7,829.29	96.47	138.31	-98.33	1,855.54	5,520.09	6,301.78	6,164.03	137.76	45.746	
14,400.00	7,618.00	15,352.00	7,829.29	97.93	138.31	-98.33	1,855.54	5,520.09	6,394.85	6,257.36	137.49	46.510	
14,500.00	7,618.00	15,352.00	7,829.29	99.41	138.31	-98.33	1,855.54	5,520.09	6,488.12	6,350.89	137.24	47.276	
14,600.00	7,618.00	15,352.00	7,829.29	100.89	138.31	-98.33	1,855.54	5,520.09	6,581.60	6,444.60	136.99	48.044	
14,700.00	7,618.00	15,352.00	7,829.29	102.38	138.31	-98.33	1,855.54	5,520.09	6,675.26	6,538.50	136.75	48.813	
14,800.00	7,618.00	15,352.00	7,829.29	103.89	138.31	-98.33	1,855.54	5,520.09	6,769.10	6,632.58	136.52	49.583	
14,900.00	7,618.00	15,352.00	7,829.29	105.40	138.31	-98.33	1,855.54	5,520.09	6,863.11	6,726.82	136.29	50.355	
15,000.00	7,618.00	15,352.00	7,829.29	106.92	138.31	-98.33	1,855.54	5,520.09	6,957.29	6,821.22	136.07	51.129	
15,100.00	7,618.00	15,352.00	7,829.29	108.45	138.31	-98.33	1,855.54	5,520.09	7,051.64	6,915.78	135.86	51.903	
15,200.00	7,618.00	15,352.00	7,829.29	109.99	138.31	-98.33	1,855.54	5,520.09	7,146.13	7,010.48	135.66	52.679	
15,300.00	7,618.00	15,352.00	7,829.29	111.54	138.31	-98.33	1,855.54	5,520.09	7,240.78	7,105.32	135.46	53.455	
15,400.00	7,618.00	15,352.00	7,829.29	113.09	138.31	-98.33	1,855.54	5,520.09	7,335.56	7,200.30	135.26	54.233	
15,500.00	7,618.00	15,352.00	7,829.29	114.65	138.31	-98.33	1,855.54	5,520.09	7,430.49	7,295.41	135.07	55.011	
15,600.00	7,618.00	15,352.00	7,829.29	116.21	138.31	-98.33	1,855.54	5,520.09	7,525.54	7,390.65	134.89	55.790	
15,700.00	7,618.00	15,352.00	7,829.29	117.78	138.31	-98.33	1,855.54	5,520.09	7,620.72	7,486.01	134.71	56.570	
15,800.00	7,618.00	15,352.00	7,829.29	119.36	138.31	-98.33	1,855.54	5,520.09	7,716.03	7,581.48	134.54	57.350	
15,900.00	7,618.00	15,352.00	7,829.29	120.94	138.31	-98.33	1,855.54	5,520.09	7,811.45	7,677.07	134.38	58.131	
16,000.00	7,618.00	15,352.00	7,829.29	122.53	138.31	-98.33	1,855.54	5,520.09	7,906.98	7,772.76	134.22	58.913	
16,100.00	7,618.00	15,352.00	7,829.29	124.12	138.31	-98.33	1,855.54	5,520.09	8,002.62	7,868.56	134.06	59.695	
16,200.00	7,618.00	15,352.00	7,829.29	125.72	138.31	-98.33	1,855.54	5,520.09	8,098.37	7,964.46	133.91	60.477	
16,300.00	7,618.00	15,352.00	7,829.29	127.32	138.31	-98.33	1,855.54	5,520.09	8,194.22	8,060.46	133.76	61.260	
16,400.00	7,618.00	15,352.00	7,829.29	128.93	138.31	-98.33	1,855.54	5,520.09	8,290.17	8,156.55	133.62	62.043	
16,500.00	7,618.00	15,352.00	7,829.29	130.54	138.31	-98.33	1,855.54	5,520.09	8,386.21	8,252.73	133.48	62.826	
16,600.00	7,618.00	15,352.00	7,829.29	132.15	138.31	-98.33	1,855.54	5,520.09	8,482.34	8,348.99	133.35	63.610	
16,700.00	7,618.00	15,352.00	7,829.29	133.77	138.31	-98.33	1,855.54	5,520.09	8,578.57	8,445.34	133.22	64.394	
16,800.00	7,618.00	15,352.00	7,829.29	135.39	138.31	-98.33	1,855.54	5,520.09	8,674.87	8,541.78	133.10	65.177	
16,900.00	7,618.00	15,352.00	7,829.29	137.01	138.31	-98.33	1,855.54	5,520.09	8,771.26	8,638.29	132.98	65.961	
17,000.00	7,618.00	15,352.00	7,829.29	138.64	138.31	-98.33	1,855.54	5,520.09	8,867.73	8,734.87	132.86	66.745	
17,100.00	7,618.00	15,352.00	7,829.29	140.27	138.31	-98.33	1,855.54	5,520.09	8,964.28	8,831.54	132.75	67.529	
17,200.00	7,618.00	15,352.00	7,829.29	141.91	138.31	-98.33	1,855.54	5,520.09	9,060.90	8,928.27	132.64	68.313	
17,300.00	7,618.00	15,352.00	7,829.29	143.55	138.31	-98.33	1,855.54	5,520.09	9,157.60	9,025.07	132.53	69.097	
17,400.00	7,618.00	15,352.00	7,829.29	145.19	138.31	-98.33	1,855.54	5,520.09	9,254.36	9,121.93	132.43	69.881	
17,500.00	7,618.00	15,352.00	7,829.29	146.83	138.31	-98.33	1,855.54	5,520.09	9,351.20	9,218.87	132.33	70.665	
17,600.00	7,618.00	15,352.00	7,829.29	148.48	138.31	-98.33	1,855.54	5,520.09	9,448.10	9,315.86	132.24	71.449	
17,700.00	7,618.00	15,352.00	7,829.29	150.13	138.31	-98.33	1,855.54	5,520.09	9,545.06	9,412.92	132.14	72.232	
17,800.00	7,618.00	15,352.00	7,829.29	151.78	138.31	-98.33	1,855.54	5,520.09	9,642.09	9,510.03	132.06	73.015	
17,900.00	7,618.00	15,352.00	7,829.29	153.43	138.31	-98.33	1,855.54	5,520.09	9,739.17	9,607.20	131.97	73.798	
18,000.00	7,618.00	15,352.00	7,829.29	155.09	138.31	-98.33	1,855.54	5,520.09	9,836.31	9,704.43	131.89	74.581	
18,100.00	7,618.00	15,352.00	7,829.29	156.75	138.31	-98.33	1,855.54	5,520.09	9,933.52	9,801.71	131.81	75.364	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	58.59	2,113.84	3,461.38	4,055.98				
100.00	100.00	50.51	50.51	0.13	0.09	58.59	2,113.85	3,461.42	4,055.84	4,055.62	0.23	N/A	
200.00	200.00	125.00	125.00	0.49	0.36	58.59	2,113.86	3,461.96	4,056.46	4,055.61	0.85	4,759.932	
300.00	300.00	202.57	202.56	0.85	0.64	58.60	2,114.16	3,462.90	4,057.67	4,056.19	1.49	2,726.660	
400.00	400.00	304.88	304.86	1.21	1.00	58.59	2,114.99	3,464.16	4,059.16	4,056.94	2.21	1,834.972	
500.00	500.00	442.13	442.10	1.57	1.49	58.61	2,114.87	3,465.69	4,060.05	4,057.00	3.06	1,327.610	
600.00	600.00	537.19	537.15	1.93	1.83	58.62	2,114.18	3,466.70	4,060.58	4,056.82	3.75	1,081.665	
700.00	700.00	633.82	633.78	2.29	2.17	58.63	2,114.04	3,467.54	4,061.25	4,056.79	4.46	911.319	
800.00	800.00	777.93	777.89	2.64	2.66	58.62	2,114.74	3,467.25	4,061.31	4,056.00	5.31	765.169	
900.00	900.00	912.01	911.96	3.00	3.12	58.62	2,114.01	3,466.40	4,060.49	4,054.37	6.12	663.642	
1,000.00	999.98	995.64	995.59	3.36	3.40	1.43	2,113.51	3,465.60	4,057.63	4,050.87	6.76	600.370	
1,100.00	1,099.84	1,091.24	1,091.18	3.71	3.73	1.43	2,113.69	3,464.69	4,051.68	4,044.24	7.44	544.614	
1,200.00	1,199.45	1,209.86	1,209.79	4.07	4.14	1.43	2,113.73	3,463.35	4,042.03	4,033.83	8.20	492.703	
1,300.00	1,298.70	1,344.20	1,344.11	4.44	4.61	1.43	2,113.60	3,461.31	4,028.62	4,019.59	9.03	446.310	
1,400.00	1,397.47	1,418.66	1,418.55	4.82	4.87	1.43	2,113.68	3,459.39	4,010.96	4,001.31	9.64	415.900	
1,500.00	1,495.62	1,498.93	1,498.81	5.22	5.15	1.44	2,113.40	3,458.78	3,990.98	3,980.70	10.28	388.090	
1,600.00	1,593.06	1,833.40	1,832.04	5.65	6.34	1.82	2,086.89	3,457.37	3,963.08	3,951.28	11.80	335.768	
1,700.00	1,689.64	1,918.48	1,916.23	6.11	6.65	2.02	2,074.63	3,457.95	3,930.62	3,918.15	12.47	315.130	
1,800.00	1,785.27	2,030.57	2,026.69	6.61	7.08	2.34	2,055.72	3,460.15	3,894.74	3,881.49	13.25	293.951	
1,900.00	1,879.82	2,098.87	2,093.75	7.15	7.35	2.58	2,042.97	3,462.30	3,855.78	3,841.90	13.88	277.801	
2,000.00	1,973.17	2,161.94	2,155.57	7.73	7.61	2.84	2,030.77	3,464.99	3,814.27	3,799.77	14.50	263.100	
2,100.00	2,065.21	2,227.80	2,220.14	8.37	7.88	3.12	2,018.21	3,468.23	3,770.29	3,755.16	15.13	249.112	
2,200.00	2,155.84	2,311.40	2,302.20	9.07	8.23	3.48	2,002.83	3,472.41	3,723.67	3,707.83	15.85	235.002	
2,300.00	2,244.94	2,427.10	2,415.80	9.82	8.71	3.99	1,981.39	3,477.18	3,673.30	3,656.62	16.68	220.182	
2,400.00	2,332.39	2,569.84	2,556.01	10.64	9.33	4.66	1,955.16	3,482.23	3,620.08	3,602.46	17.63	205.391	
2,500.00	2,418.11	2,623.79	2,608.91	11.53	9.57	5.02	1,944.65	3,483.83	3,562.92	3,544.68	18.24	195.328	
2,558.91	2,467.74	2,653.60	2,638.17	12.08	9.70	5.23	1,939.01	3,484.84	3,528.27	3,509.67	18.60	189.695	
2,600.00	2,502.13	2,666.00	2,650.33	12.47	9.75	5.29	1,936.70	3,485.29	3,503.91	3,485.09	18.82	186.204	
2,700.00	2,585.83	2,726.62	2,709.90	13.45	10.02	5.57	1,925.73	3,487.68	3,445.09	3,425.63	19.46	177.014	
2,800.00	2,669.53	2,809.46	2,791.38	14.44	10.38	5.96	1,911.21	3,491.31	3,386.86	3,366.66	20.20	167.665	
2,900.00	2,753.22	2,902.88	2,883.08	15.46	10.80	6.44	1,893.84	3,495.21	3,328.16	3,307.17	20.99	158.581	
3,000.00	2,836.92	2,990.70	2,969.41	16.48	11.19	6.89	1,878.02	3,498.48	3,269.51	3,247.75	21.76	150.228	
3,100.00	2,920.62	3,067.31	3,044.46	17.52	11.54	7.32	1,862.98	3,501.64	3,210.67	3,188.16	22.51	142.613	
3,200.00	3,004.32	3,122.74	3,098.83	18.56	11.79	7.64	1,852.48	3,504.10	3,152.42	3,129.22	23.20	135.879	
3,300.00	3,088.01	3,239.84	3,213.78	19.61	12.33	8.33	1,830.70	3,508.88	3,094.23	3,070.13	24.11	128.354	
3,400.00	3,171.71	3,295.97	3,268.98	20.67	12.58	8.65	1,820.67	3,510.85	3,035.96	3,011.15	24.81	122.357	
3,500.00	3,255.41	3,382.79	3,354.50	21.73	12.97	9.16	1,805.92	3,513.70	2,978.03	2,952.40	25.63	116.215	
3,600.00	3,339.10	3,483.83	3,453.80	22.80	13.43	9.81	1,787.56	3,516.87	2,919.73	2,893.23	26.50	110.195	
3,700.00	3,422.80	3,560.20	3,528.77	23.87	13.78	10.32	1,773.20	3,519.10	2,861.22	2,833.92	27.30	104.806	
3,800.00	3,506.50	3,624.21	3,591.83	24.94	14.07	10.74	1,762.33	3,520.66	2,803.15	2,775.08	28.07	99.846	
3,900.00	3,590.20	3,680.30	3,647.11	26.02	14.32	11.12	1,752.99	3,522.39	2,745.81	2,716.98	28.84	95.218	
4,000.00	3,673.89	3,754.54	3,720.23	27.10	14.66	11.64	1,740.46	3,525.26	2,689.13	2,659.47	29.67	90.640	
4,100.00	3,757.59	3,827.67	3,792.19	28.18	15.00	12.19	1,727.77	3,528.24	2,632.68	2,602.16	30.51	86.276	
4,200.00	3,841.29	3,921.56	3,884.42	29.26	15.43	12.94	1,710.75	3,532.70	2,576.74	2,545.30	31.44	81.951	
4,300.00	3,924.99	4,025.38	3,986.29	30.35	15.91	13.82	1,691.09	3,536.01	2,519.48	2,487.07	32.41	77.739	
4,400.00	4,008.68	4,083.64	4,043.79	31.44	16.18	14.29	1,681.81	3,537.47	2,462.98	2,429.72	33.26	74.058	
4,500.00	4,092.38	4,144.34	4,103.78	32.52	16.44	14.78	1,672.71	3,539.28	2,407.34	2,373.22	34.12	70.553	
4,600.00	4,176.08	4,280.24	4,237.76	33.62	17.06	15.98	1,650.36	3,543.22	2,351.59	2,316.40	35.19	66.827	
4,700.00	4,259.77	4,361.69	4,317.84	34.71	17.44	16.78	1,635.59	3,544.80	2,294.85	2,258.69	36.16	63.457	
4,800.00	4,343.47	4,428.75	4,383.66	35.80	17.75	17.49	1,622.87	3,546.42	2,238.58	2,201.44	37.14	60.271	
4,900.00	4,427.17	4,506.46	4,459.79	36.89	18.13	18.36	1,607.44	3,548.76	2,182.91	2,144.72	38.18	57.169	
5,000.00	4,510.87	4,597.99	4,549.46	37.99	18.57	19.44	1,589.19	3,551.23	2,127.41	2,088.12	39.29	54.141	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	4,673.93	4,623.83	39.08	18.93	20.38	1,573.95	3,552.81	2,071.88	2,031.49	40.40	51.287	
5,200.00	4,678.26	4,735.00	4,683.76	40.18	19.22	21.15	1,562.33	3,554.36	2,017.39	1,975.89	41.50	48.616	
5,300.00	4,761.96	4,803.74	4,751.38	41.28	19.54	22.03	1,550.09	3,556.34	1,963.90	1,921.26	42.64	46.061	
5,400.00	4,845.66	4,874.98	4,821.56	42.37	19.87	22.95	1,538.06	3,558.49	1,911.21	1,867.39	43.82	43.618	
5,500.00	4,929.35	4,951.42	4,896.80	43.47	20.22	24.00	1,524.87	3,561.16	1,859.36	1,814.30	45.06	41.266	
5,600.00	5,013.05	5,037.28	4,981.39	44.57	20.62	25.23	1,510.35	3,563.85	1,807.89	1,761.53	46.37	38.992	
5,700.00	5,096.75	5,115.97	5,059.07	45.67	20.97	26.38	1,497.99	3,566.02	1,756.95	1,709.26	47.69	36.840	
5,800.00	5,180.45	5,182.25	5,124.55	46.77	21.27	27.38	1,487.91	3,568.07	1,706.99	1,657.96	49.03	34.812	
5,900.00	5,264.14	5,250.41	5,191.83	47.87	21.57	28.46	1,477.37	3,570.70	1,658.32	1,607.88	50.44	32.876	
6,000.00	5,347.84	5,325.42	5,265.85	48.97	21.91	29.70	1,465.68	3,574.09	1,610.93	1,559.00	51.93	31.019	
6,100.00	5,431.54	5,415.87	5,355.06	50.07	22.32	31.29	1,451.28	3,577.91	1,564.16	1,510.61	53.55	29.211	
6,200.00	5,515.23	5,507.79	5,445.93	51.17	22.73	32.95	1,437.80	3,581.06	1,517.76	1,462.55	55.21	27.490	
6,300.00	5,598.93	5,603.32	5,540.41	52.27	23.14	34.78	1,423.87	3,583.40	1,471.58	1,414.62	56.96	25.836	
6,400.00	5,682.63	5,666.98	5,603.35	53.38	23.43	36.06	1,414.45	3,585.15	1,426.67	1,367.97	58.70	24.303	
6,500.00	5,766.33	5,738.33	5,673.87	54.48	23.74	37.56	1,403.83	3,587.53	1,383.46	1,322.91	60.55	22.848	
6,600.00	5,850.02	5,817.97	5,752.51	55.58	24.10	39.32	1,391.67	3,590.53	1,341.92	1,279.40	62.52	21.464	
6,700.00	5,933.72	5,901.87	5,835.30	56.68	24.48	41.30	1,378.36	3,593.38	1,301.58	1,236.97	64.61	20.146	
6,800.00	6,017.42	5,983.18	5,915.75	57.79	24.83	43.24	1,366.90	3,596.11	1,262.68	1,195.94	66.74	18.920	
6,900.00	6,101.12	6,061.39	5,993.12	58.89	25.18	45.20	1,355.76	3,598.76	1,225.49	1,156.55	68.94	17.777	
7,000.00	6,184.81	6,136.17	6,067.02	59.99	25.51	47.17	1,344.64	3,601.44	1,190.42	1,119.21	71.21	16.716	
7,100.00	6,268.51	6,225.42	6,155.30	61.10	25.90	49.60	1,331.96	3,604.71	1,157.34	1,083.72	73.62	15.720	
7,200.00	6,352.21	6,307.56	6,236.72	62.20	26.25	51.88	1,321.47	3,607.46	1,125.86	1,049.83	76.03	14.808	
7,300.00	6,435.90	6,388.47	6,316.87	63.31	26.59	54.24	1,310.76	3,610.10	1,096.72	1,018.24	78.49	13.973	
7,400.00	6,519.60	6,475.83	6,403.50	64.41	26.96	56.85	1,299.90	3,612.97	1,069.87	988.87	81.00	13.208	
7,500.00	6,603.30	6,568.79	6,495.94	65.51	27.34	59.64	1,290.55	3,615.93	1,044.76	961.25	83.51	12.511	
7,600.00	6,687.00	6,660.82	6,587.56	66.62	27.70	62.49	1,281.99	3,618.19	1,021.47	935.46	86.00	11.877	
7,700.00	6,770.69	6,753.76	6,680.12	67.72	28.06	65.47	1,273.75	3,619.53	1,000.06	911.59	88.48	11.303	
7,800.00	6,854.39	6,847.49	6,773.58	68.83	28.41	68.53	1,266.88	3,620.48	980.65	889.77	90.88	10.791	
7,900.00	6,938.09	6,941.25	6,867.22	69.93	28.74	71.59	1,262.18	3,621.48	963.18	870.01	93.17	10.338	
7,933.18	6,965.86	6,971.62	6,897.57	70.30	28.84	72.58	1,261.07	3,621.85	957.86	863.96	93.90	10.201	
7,950.00	6,980.00	6,987.15	6,913.09	70.49	28.89	70.55	1,260.56	3,622.04	955.08	860.82	94.26	10.132	
8,000.00	7,022.68	7,033.56	6,959.48	71.01	29.05	63.67	1,259.31	3,622.67	945.13	849.87	95.26	9.922	
8,050.00	7,066.06	7,080.68	7,006.58	71.51	29.20	55.60	1,258.34	3,623.31	932.56	836.41	96.15	9.699	
8,100.00	7,109.82	7,127.12	7,053.02	71.97	29.35	46.62	1,257.67	3,623.99	917.26	820.34	96.92	9.464	
8,150.00	7,153.63	7,173.24	7,099.12	72.38	29.49	37.19	1,257.27	3,624.77	899.24	801.64	97.59	9.214	
8,200.00	7,197.14	7,223.12	7,149.00	72.74	29.64	27.82	1,257.15	3,625.65	878.41	780.25	98.16	8.949	
8,250.00	7,240.04	7,273.98	7,199.85	73.05	29.79	18.77	1,257.37	3,626.29	854.59	755.98	98.61	8.666	
8,300.00	7,281.99	7,337.02	7,262.87	73.31	29.96	10.13	1,258.92	3,626.91	827.61	728.72	98.89	8.369	
8,350.00	7,322.67	7,425.14	7,350.67	73.52	30.17	1.19	1,266.10	3,627.91	796.93	698.25	98.67	8.076	
8,400.00	7,361.77	7,526.37	7,450.15	73.68	30.36	-9.73	1,284.52	3,627.72	760.86	663.41	97.45	7.808	
8,450.00	7,399.01	8,450.00	7,519.24	73.78	31.46	-23.05	1,305.42	3,627.69	720.97	623.44	97.53	7.393	
8,500.00	7,434.08	7,710.97	7,622.42	73.85	30.55	-45.39	1,349.50	3,624.73	678.00	586.49	91.52	7.408	
8,550.00	7,466.74	7,740.37	7,648.06	73.87	30.57	-61.28	1,363.84	3,623.78	634.68	544.69	89.99	7.053	
8,600.00	7,496.72	7,753.60	7,659.37	73.85	30.57	-73.41	1,370.72	3,623.43	592.46	503.59	88.87	6.667	
8,650.00	7,523.80	7,757.12	7,662.34	73.79	30.57	-82.06	1,372.59	3,623.35	552.33	464.50	87.83	6.288	
8,700.00	7,547.77	7,753.03	7,658.88	73.70	30.57	-87.80	1,370.41	3,623.44	515.22	428.48	86.74	5.940	
8,750.00	7,568.45	7,744.94	7,651.98	73.58	30.57	-91.56	1,366.18	3,623.65	482.06	396.78	85.27	5.653	
8,800.00	7,585.69	7,733.73	7,642.34	73.43	30.56	-93.73	1,360.49	3,623.97	453.82	370.52	83.30	5.448	
8,850.00	7,599.35	7,720.33	7,630.66	73.26	30.56	-94.64	1,353.93	3,624.40	431.48	350.74	80.74	5.344	SF
8,900.00	7,609.33	7,704.85	7,616.99	73.07	30.55	-94.39	1,346.68	3,624.96	415.91	338.21	77.70	5.353	
8,950.00	7,615.55	7,686.88	7,600.92	72.87	30.54	-93.01	1,338.68	3,625.61	407.68	333.20	74.49	5.473	ES
8,979.56	7,617.44	7,675.74	7,590.85	72.74	30.53	-91.75	1,333.93	3,626.02	406.37	333.73	72.64	5.594	CC

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	7,669.81	7,585.46	72.65	30.53	-90.95	1,331.46	3,626.21	406.97	335.65	71.32	5.706	
9,006.60	7,618.00	7,666.50	7,582.44	72.62	30.52	-90.49	1,330.12	3,626.35	407.45	336.44	71.00	5.738	
9,100.00	7,618.00	7,624.82	7,543.96	72.22	30.48	-85.08	1,314.18	3,627.50	423.45	355.63	67.83	6.243	
9,200.00	7,618.00	7,592.37	7,513.45	71.80	30.45	-80.86	1,303.10	3,627.79	458.47	390.50	67.97	6.745	
9,300.00	7,618.00	7,567.00	7,489.30	71.41	30.42	-77.59	1,295.33	3,627.80	509.17	438.23	70.94	7.177	
9,400.00	7,618.00	7,548.11	7,471.17	71.04	30.39	-75.18	1,290.06	3,627.75	571.86	497.11	74.75	7.650	
9,500.00	7,618.00	7,531.89	7,455.49	70.68	30.37	-73.14	1,285.87	3,627.73	643.31	564.98	78.33	8.213	
9,600.00	7,618.00	7,520.00	7,443.95	70.35	30.35	-71.67	1,283.01	3,627.72	721.06	639.69	81.37	8.862	
9,700.00	7,618.00	7,505.99	7,430.30	70.04	30.33	-69.96	1,279.86	3,627.73	803.37	719.55	83.81	9.585	
9,800.00	7,618.00	7,495.45	7,420.00	69.75	30.31	-68.69	1,277.64	3,627.77	889.04	803.23	85.81	10.360	
9,900.00	7,618.00	7,486.08	7,410.82	69.47	30.29	-67.59	1,275.79	3,627.82	977.23	889.79	87.44	11.176	
10,000.00	7,618.00	7,473.00	7,397.96	69.22	30.27	-66.06	1,273.38	3,627.91	1,067.37	978.63	88.74	12.028	
10,100.00	7,618.00	7,473.00	7,397.96	68.99	30.27	-66.06	1,273.38	3,627.91	1,158.96	1,069.07	89.89	12.893	
10,200.00	7,618.00	7,461.20	7,386.33	68.78	30.25	-64.72	1,271.37	3,627.98	1,251.73	1,160.94	90.79	13.787	
10,300.00	7,618.00	7,453.63	7,378.86	68.59	30.23	-63.87	1,270.15	3,628.00	1,345.45	1,253.88	91.57	14.694	
10,400.00	7,618.00	7,446.74	7,372.05	68.42	30.22	-63.10	1,269.10	3,628.01	1,439.93	1,347.70	92.23	15.612	
10,500.00	7,618.00	7,440.44	7,365.82	68.28	30.20	-62.41	1,268.17	3,628.00	1,535.05	1,442.24	92.81	16.540	
10,600.00	7,618.00	7,426.00	7,351.51	68.16	30.18	-60.85	1,266.21	3,627.92	1,630.75	1,537.48	93.27	17.483	
10,700.00	7,618.00	7,426.00	7,351.51	68.06	30.18	-60.85	1,266.21	3,627.92	1,726.80	1,633.06	93.74	18.422	
10,800.00	7,618.00	7,426.00	7,351.51	67.99	30.18	-60.85	1,266.21	3,627.92	1,823.27	1,729.13	94.14	19.367	
10,900.00	7,618.00	7,426.00	7,351.51	67.95	30.18	-60.85	1,266.21	3,627.92	1,920.11	1,825.61	94.50	20.319	
11,000.00	7,618.00	7,426.00	7,351.51	67.95	30.18	-60.85	1,266.21	3,627.92	2,017.25	1,922.43	94.82	21.275	
11,100.00	7,618.00	7,426.00	7,351.51	67.97	30.18	-60.85	1,266.21	3,627.92	2,114.66	2,019.56	95.10	22.235	
11,200.00	7,618.00	7,409.99	7,335.62	68.04	30.14	-59.17	1,264.29	3,627.78	2,212.10	2,116.78	95.32	23.207	
11,300.00	7,618.00	7,406.93	7,332.58	68.15	30.13	-58.85	1,263.96	3,627.75	2,309.86	2,214.31	95.55	24.175	
11,400.00	7,618.00	7,404.07	7,329.73	68.30	30.13	-58.56	1,263.66	3,627.72	2,407.79	2,312.04	95.75	25.145	
11,500.00	7,618.00	7,401.37	7,327.05	68.50	30.12	-58.28	1,263.39	3,627.69	2,505.88	2,409.93	95.94	26.118	
11,600.00	7,618.00	7,398.84	7,324.53	68.75	30.11	-58.03	1,263.14	3,627.67	2,604.10	2,507.98	96.12	27.092	
11,700.00	7,618.00	7,396.45	7,322.15	69.06	30.11	-57.78	1,262.91	3,627.64	2,702.44	2,606.16	96.28	28.069	
11,800.00	7,618.00	7,379.00	7,304.77	69.44	30.07	-56.05	1,261.44	3,627.43	2,801.06	2,704.67	96.40	29.058	
11,900.00	7,618.00	7,379.00	7,304.77	69.88	30.07	-56.05	1,261.44	3,627.43	2,899.57	2,803.03	96.54	30.035	
12,000.00	7,618.00	7,379.00	7,304.77	70.39	30.07	-56.05	1,261.44	3,627.43	2,998.17	2,901.50	96.67	31.013	
12,100.00	7,618.00	7,379.00	7,304.77	70.97	30.07	-56.05	1,261.44	3,627.43	3,096.86	3,000.06	96.80	31.993	
12,200.00	7,618.00	7,379.00	7,304.77	71.63	30.07	-56.05	1,261.44	3,627.43	3,195.64	3,098.72	96.92	32.974	
12,300.00	7,618.00	7,379.00	7,304.77	72.35	30.07	-56.05	1,261.44	3,627.43	3,294.48	3,197.46	97.02	33.955	
12,400.00	7,618.00	7,379.00	7,304.77	73.15	30.07	-56.05	1,261.44	3,627.43	3,393.40	3,296.27	97.13	34.938	
12,500.00	7,618.00	7,379.00	7,304.77	74.01	30.07	-56.05	1,261.44	3,627.43	3,492.38	3,395.15	97.22	35.921	
12,600.00	7,618.00	7,379.00	7,304.77	74.93	30.07	-56.05	1,261.44	3,627.43	3,591.41	3,494.09	97.32	36.904	
12,700.00	7,618.00	7,379.00	7,304.77	75.91	30.07	-56.05	1,261.44	3,627.43	3,690.50	3,593.09	97.40	37.889	
12,800.00	7,618.00	7,379.00	7,304.77	76.95	30.07	-56.05	1,261.44	3,627.43	3,789.63	3,692.14	97.49	38.873	
12,900.00	7,618.00	7,379.00	7,304.77	78.04	30.07	-56.05	1,261.44	3,627.43	3,888.81	3,791.24	97.57	39.858	
13,000.00	7,618.00	7,379.00	7,304.77	79.16	30.07	-56.05	1,261.44	3,627.43	3,988.03	3,890.39	97.64	40.844	
13,100.00	7,618.00	7,379.00	7,304.77	80.33	30.07	-56.05	1,261.44	3,627.43	4,087.28	3,989.57	97.71	41.830	
13,200.00	7,618.00	7,379.00	7,304.77	81.54	30.07	-56.05	1,261.44	3,627.43	4,186.58	4,088.80	97.78	42.816	
13,300.00	7,618.00	7,379.00	7,304.77	82.78	30.07	-56.05	1,261.44	3,627.43	4,285.90	4,188.06	97.85	43.802	
13,400.00	7,618.00	7,379.00	7,304.77	84.05	30.07	-56.05	1,261.44	3,627.43	4,385.26	4,287.35	97.91	44.788	
13,500.00	7,618.00	7,379.00	7,304.77	85.35	30.07	-56.05	1,261.44	3,627.43	4,484.64	4,386.67	97.97	45.774	
13,600.00	7,618.00	7,379.00	7,304.77	86.67	30.07	-56.05	1,261.44	3,627.43	4,584.06	4,486.02	98.03	46.760	
13,700.00	7,618.00	7,379.00	7,304.77	88.02	30.07	-56.05	1,261.44	3,627.43	4,683.49	4,585.40	98.09	47.747	
13,800.00	7,618.00	7,379.00	7,304.77	89.38	30.07	-56.05	1,261.44	3,627.43	4,782.95	4,684.81	98.15	48.733	
13,900.00	7,618.00	7,379.00	7,304.77	90.77	30.07	-56.05	1,261.44	3,627.43	4,882.44	4,784.23	98.20	49.719	
14,000.00	7,618.00	7,379.00	7,304.77	92.17	30.07	-56.05	1,261.44	3,627.43	4,981.94	4,883.69	98.25	50.705	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,618.00	7,379.00	7,304.77	93.59	30.07	-56.05	1,261.44	3,627.43	5,081.46	4,983.16	98.30	51.691	
14,200.00	7,618.00	7,379.00	7,304.77	95.02	30.07	-56.05	1,261.44	3,627.43	5,181.00	5,082.65	98.35	52.677	
14,300.00	7,618.00	7,379.00	7,304.77	96.47	30.07	-56.05	1,261.44	3,627.43	5,280.56	5,182.16	98.40	53.662	
14,400.00	7,618.00	7,379.00	7,304.77	97.93	30.07	-56.05	1,261.44	3,627.43	5,380.13	5,281.68	98.45	54.648	
14,500.00	7,618.00	7,379.00	7,304.77	99.41	30.07	-56.05	1,261.44	3,627.43	5,479.72	5,381.23	98.50	55.633	
14,600.00	7,618.00	7,379.00	7,304.77	100.89	30.07	-56.05	1,261.44	3,627.43	5,579.33	5,480.79	98.54	56.618	
14,700.00	7,618.00	7,379.00	7,304.77	102.38	30.07	-56.05	1,261.44	3,627.43	5,678.95	5,580.36	98.59	57.602	
14,800.00	7,618.00	7,379.00	7,304.77	103.89	30.07	-56.05	1,261.44	3,627.43	5,778.58	5,679.95	98.63	58.586	
14,900.00	7,618.00	7,379.00	7,304.77	105.40	30.07	-56.05	1,261.44	3,627.43	5,878.22	5,779.55	98.68	59.570	
15,000.00	7,618.00	7,379.00	7,304.77	106.92	30.07	-56.05	1,261.44	3,627.43	5,977.88	5,879.16	98.72	60.554	
15,100.00	7,618.00	7,379.00	7,304.77	108.45	30.07	-56.05	1,261.44	3,627.43	6,077.55	5,978.79	98.76	61.537	
15,200.00	7,618.00	7,379.00	7,304.77	109.99	30.07	-56.05	1,261.44	3,627.43	6,177.23	6,078.42	98.80	62.520	
15,300.00	7,618.00	7,341.89	7,267.73	111.54	29.97	-52.59	1,259.15	3,626.97	6,276.34	6,177.54	98.79	63.530	
15,400.00	7,618.00	7,340.98	7,266.82	113.09	29.97	-52.51	1,259.11	3,626.96	6,376.01	6,277.17	98.83	64.513	
15,500.00	7,618.00	7,340.09	7,265.93	114.65	29.97	-52.43	1,259.07	3,626.95	6,475.69	6,376.81	98.87	65.496	
15,600.00	7,618.00	7,339.22	7,265.06	116.21	29.97	-52.35	1,259.03	3,626.94	6,575.38	6,476.47	98.91	66.478	
15,700.00	7,618.00	7,338.37	7,264.22	117.78	29.96	-52.28	1,258.99	3,626.93	6,675.07	6,576.13	98.95	67.459	
15,800.00	7,618.00	7,337.54	7,263.39	119.36	29.96	-52.20	1,258.95	3,626.92	6,774.78	6,675.79	98.99	68.440	
15,900.00	7,618.00	7,336.74	7,262.58	120.94	29.96	-52.13	1,258.91	3,626.91	6,874.50	6,775.47	99.03	69.421	
16,000.00	7,618.00	7,335.95	7,261.79	122.53	29.96	-52.06	1,258.87	3,626.90	6,974.22	6,875.15	99.06	70.401	
16,100.00	7,618.00	7,335.18	7,261.03	124.12	29.96	-51.99	1,258.84	3,626.89	7,073.95	6,974.85	99.10	71.381	
16,200.00	7,618.00	7,334.43	7,260.27	125.72	29.95	-51.93	1,258.81	3,626.88	7,173.68	7,074.55	99.14	72.360	
16,300.00	7,618.00	7,333.69	7,259.54	127.32	29.95	-51.86	1,258.78	3,626.88	7,273.43	7,174.25	99.18	73.338	
16,400.00	7,618.00	7,332.97	7,258.82	128.93	29.95	-51.80	1,258.74	3,626.87	7,373.18	7,273.96	99.21	74.316	
16,500.00	7,618.00	7,332.27	7,258.12	130.54	29.95	-51.74	1,258.71	3,626.86	7,472.93	7,373.68	99.25	75.294	
16,600.00	7,618.00	7,331.58	7,257.43	132.15	29.95	-51.68	1,258.69	3,626.85	7,572.70	7,473.41	99.29	76.270	
16,700.00	7,618.00	7,330.91	7,256.76	133.77	29.94	-51.62	1,258.66	3,626.84	7,672.46	7,573.14	99.32	77.247	
16,800.00	7,618.00	7,330.25	7,256.10	135.39	29.94	-51.56	1,258.63	3,626.84	7,772.24	7,672.88	99.36	78.222	
16,900.00	7,618.00	7,329.61	7,255.46	137.01	29.94	-51.51	1,258.60	3,626.83	7,872.02	7,772.62	99.40	79.197	
17,000.00	7,618.00	7,328.98	7,254.83	138.64	29.94	-51.45	1,258.58	3,626.82	7,971.80	7,872.37	99.43	80.171	
17,100.00	7,618.00	7,328.36	7,254.22	140.27	29.94	-51.40	1,258.55	3,626.82	8,071.59	7,972.12	99.47	81.145	
17,200.00	7,618.00	7,327.76	7,253.61	141.91	29.94	-51.34	1,258.53	3,626.81	8,171.39	8,071.88	99.51	82.118	
17,300.00	7,618.00	7,327.17	7,253.02	143.55	29.93	-51.29	1,258.51	3,626.80	8,271.18	8,171.64	99.54	83.090	
17,400.00	7,618.00	7,326.59	7,252.44	145.19	29.93	-51.24	1,258.48	3,626.80	8,370.99	8,271.41	99.58	84.062	
17,500.00	7,618.00	7,326.02	7,251.87	146.83	29.93	-51.19	1,258.46	3,626.79	8,470.80	8,371.18	99.62	85.033	
17,600.00	7,618.00	7,325.46	7,251.32	148.48	29.93	-51.15	1,258.44	3,626.79	8,570.61	8,470.95	99.66	86.003	
17,700.00	7,618.00	7,324.92	7,250.77	150.13	29.93	-51.10	1,258.42	3,626.78	8,670.42	8,570.73	99.69	86.972	
17,800.00	7,618.00	7,324.38	7,250.24	151.78	29.93	-51.05	1,258.40	3,626.77	8,770.24	8,670.52	99.73	87.941	
17,900.00	7,618.00	7,323.86	7,249.71	153.43	29.93	-51.01	1,258.38	3,626.77	8,870.07	8,770.30	99.77	88.909	
18,000.00	7,618.00	7,284.00	7,209.87	155.09	29.82	-47.75	1,257.46	3,626.38	8,970.51	8,870.76	99.75	89.931	
18,100.00	7,618.00	7,284.00	7,209.87	156.75	29.82	-47.75	1,257.46	3,626.38	9,070.32	8,970.54	99.79	90.897	
18,200.00	7,618.00	7,284.00	7,209.87	158.41	29.82	-47.75	1,257.46	3,626.38	9,170.14	9,070.32	99.83	91.862	
18,300.00	7,618.00	7,284.00	7,209.87	160.07	29.82	-47.75	1,257.46	3,626.38	9,269.97	9,170.10	99.86	92.827	
18,400.00	7,618.00	7,284.00	7,209.87	161.74	29.82	-47.75	1,257.46	3,626.38	9,369.79	9,269.89	99.90	93.790	
18,500.00	7,618.00	7,284.00	7,209.87	163.41	29.82	-47.75	1,257.46	3,626.38	9,469.62	9,369.68	99.94	94.753	
18,600.00	7,618.00	7,284.00	7,209.87	165.08	29.82	-47.75	1,257.46	3,626.38	9,569.46	9,469.48	99.98	95.715	
18,700.00	7,618.00	7,284.00	7,209.87	166.75	29.82	-47.75	1,257.46	3,626.38	9,669.29	9,569.28	100.02	96.677	
18,711.30	7,618.00	7,284.00	7,209.87	166.94	29.82	-47.75	1,257.46	3,626.38	9,680.58	9,580.56	100.02	96.785	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	58.16	2,112.74	3,401.74	4,004.63				
100.00	100.00	51.61	51.61	0.13	0.10	58.16	2,112.74	3,401.78	4,004.48	4,004.25	0.23	N/A	
200.00	200.00	125.68	125.68	0.49	0.36	58.16	2,112.65	3,402.33	4,005.04	4,004.19	0.85	4,686.058	
300.00	300.00	222.07	222.06	0.85	0.71	58.17	2,112.77	3,403.30	4,005.97	4,004.41	1.56	2,572.319	
400.00	400.00	310.03	310.02	1.21	1.02	58.17	2,113.23	3,404.17	4,007.09	4,004.86	2.23	1,796.992	
500.00	500.00	447.92	447.90	1.57	1.51	58.17	2,113.86	3,404.98	4,007.80	4,004.73	3.08	1,302.776	
600.00	600.00	532.87	532.85	1.93	1.81	58.16	2,114.61	3,405.07	4,008.35	4,004.62	3.73	1,073.626	
700.00	700.00	662.96	662.93	2.29	2.26	58.14	2,116.17	3,404.54	4,008.63	4,004.08	4.54	881.988	
800.00	800.00	774.98	774.95	2.64	2.65	58.12	2,116.75	3,403.88	4,008.40	4,003.11	5.29	757.706	
900.00	900.00	884.53	884.49	3.00	3.03	58.12	2,116.98	3,403.16	4,007.95	4,001.92	6.03	665.055	
1,000.00	999.98	982.54	982.50	3.36	3.36	0.92	2,117.00	3,402.42	4,005.58	3,998.86	6.72	596.219	
1,100.00	1,099.84	1,069.34	1,069.30	3.71	3.66	0.93	2,116.60	3,402.26	3,999.95	3,992.58	7.37	542.632	
1,200.00	1,199.45	1,993.95	1,984.62	4.07	7.10	1.17	2,049.64	3,321.78	3,973.95	3,963.11	10.84	366.548	
1,300.00	1,298.70	2,143.90	2,130.73	4.44	7.77	1.36	2,023.72	3,300.16	3,940.83	3,929.12	11.72	336.302	
1,400.00	1,397.47	2,201.00	2,186.29	4.82	8.03	1.45	2,013.53	3,291.87	3,904.11	3,891.82	12.29	317.719	
1,500.00	1,495.62	2,262.22	2,245.98	5.22	8.30	1.55	2,002.89	3,283.39	3,864.95	3,852.07	12.87	300.238	
1,600.00	1,593.06	2,361.46	2,342.88	5.65	8.76	1.71	1,986.02	3,270.22	3,823.24	3,809.66	13.58	281.436	
1,700.00	1,689.64	2,572.14	2,547.68	6.11	9.77	2.05	1,948.04	3,238.66	3,776.55	3,761.88	14.66	257.539	
1,800.00	1,785.27	2,616.07	2,590.29	6.61	9.99	2.17	1,939.96	3,231.65	3,725.94	3,710.74	15.19	245.222	
1,900.00	1,879.82	2,659.81	2,632.84	7.15	10.20	2.28	1,932.40	3,224.93	3,673.30	3,657.58	15.72	233.610	
2,000.00	1,973.17	2,703.24	2,675.22	7.73	10.41	2.40	1,925.37	3,218.52	3,618.67	3,602.41	16.25	222.634	
2,100.00	2,065.21	2,761.00	2,731.75	8.37	10.69	2.54	1,916.75	3,210.39	3,562.11	3,545.28	16.83	211.659	
2,200.00	2,155.84	2,800.57	2,770.55	9.07	10.88	2.66	1,911.08	3,205.09	3,503.39	3,486.04	17.35	201.939	
2,300.00	2,244.94	2,869.92	2,838.59	9.82	11.20	2.86	1,900.86	3,196.36	3,442.42	3,424.45	17.96	191.663	
2,400.00	2,332.39	2,987.85	2,954.01	10.64	11.77	3.20	1,881.98	3,181.24	3,377.97	3,359.25	18.72	180.456	
2,500.00	2,418.11	2,500.00	3,062.92	11.53	9.36	3.62	1,862.24	3,166.94	3,310.39	3,293.33	17.06	194.029	
2,558.91	2,467.74	3,204.05	3,164.64	12.08	12.84	4.02	1,843.16	3,151.92	3,268.66	3,248.68	19.99	163.537	
2,600.00	2,502.13	3,244.19	3,203.60	12.47	13.05	4.15	1,835.70	3,145.74	3,238.99	3,218.72	20.26	159.846	
2,700.00	2,585.83	3,319.42	3,276.58	13.45	13.44	4.39	1,821.71	3,133.95	3,166.61	3,145.74	20.87	151.723	
2,800.00	2,669.53	2,800.00	3,369.32	14.44	10.71	4.71	1,803.75	3,117.98	3,093.49	3,074.46	19.04	162.483	
2,900.00	2,753.22	3,467.54	3,419.94	15.46	14.22	4.89	1,794.05	3,109.06	3,020.42	2,998.33	22.10	136.701	
3,000.00	2,836.92	3,515.00	3,466.03	16.48	14.47	5.05	1,785.72	3,101.43	2,948.17	2,925.52	22.66	130.128	
3,100.00	2,920.62	3,618.92	3,566.84	17.52	15.02	5.45	1,766.57	3,084.94	2,875.96	2,852.62	23.34	123.206	
3,200.00	3,004.32	3,652.83	3,599.70	18.56	15.19	5.59	1,760.16	3,079.61	2,803.50	2,779.60	23.90	117.317	
3,300.00	3,088.01	3,704.00	3,649.43	19.61	15.46	5.81	1,750.94	3,071.87	2,731.77	2,707.28	24.50	111.523	
3,400.00	3,171.71	3,772.40	3,715.97	20.67	15.82	6.11	1,738.72	3,061.72	2,660.36	2,635.23	25.13	105.855	
3,500.00	3,255.41	3,834.60	3,776.38	21.73	16.14	6.41	1,727.20	3,052.50	2,588.79	2,563.02	25.77	100.465	
3,600.00	3,339.10	3,886.61	3,826.96	22.80	16.41	6.67	1,717.56	3,045.16	2,517.68	2,491.28	26.40	95.367	
3,700.00	3,422.80	3,940.73	3,879.67	23.87	16.69	6.96	1,707.75	3,037.80	2,447.10	2,420.05	27.05	90.481	
3,800.00	3,506.50	3,997.44	3,935.02	24.94	16.98	7.26	1,697.98	3,030.21	2,377.00	2,349.30	27.70	85.799	
3,900.00	3,590.20	4,063.26	3,999.34	26.02	17.31	7.61	1,687.13	3,021.39	2,307.21	2,278.83	28.38	81.297	
4,000.00	3,673.89	4,130.18	4,064.80	27.10	17.64	7.97	1,676.60	3,012.31	2,237.62	2,208.56	29.06	76.994	
4,100.00	3,757.59	4,234.86	4,167.22	28.18	18.17	8.54	1,660.98	2,997.30	2,167.99	2,138.23	29.76	72.854	
4,200.00	3,841.29	4,327.74	4,257.72	29.26	18.65	9.08	1,646.48	2,982.28	2,096.83	2,066.38	30.44	68.878	
4,300.00	3,924.99	4,413.86	4,341.53	30.35	19.10	9.62	1,632.88	2,967.93	2,025.43	1,994.31	31.13	65.072	
4,400.00	4,008.68	4,533.96	4,457.91	31.44	19.75	10.49	1,612.49	2,946.38	1,952.98	1,921.20	31.78	61.459	
4,500.00	4,092.38	4,596.52	4,518.22	32.52	20.10	11.02	1,600.82	2,934.57	1,879.44	1,846.95	32.49	57.842	
4,600.00	4,176.08	4,648.70	4,568.66	33.62	20.39	11.48	1,591.46	2,924.99	1,806.53	1,773.28	33.24	54.343	
4,700.00	4,259.77	4,723.68	4,641.12	34.71	20.80	12.21	1,577.82	2,911.45	1,733.83	1,699.85	33.98	51.029	
4,800.00	4,343.47	4,775.16	4,690.86	35.80	21.08	12.76	1,568.14	2,902.32	1,661.31	1,626.52	34.78	47.761	
4,900.00	4,427.17	4,820.39	4,734.71	36.89	21.33	13.28	1,559.99	2,894.80	1,589.83	1,554.19	35.64	44.609	
5,000.00	4,510.87	4,908.00	4,819.73	37.99	21.81	14.35	1,544.40	2,880.57	1,518.89	1,482.47	36.42	41.706	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	5,021.74	4,929.33	39.08	22.45	16.00	1,522.06	2,859.97	1,446.37	1,409.23	37.13	38.950	
5,200.00	4,678.26	5,075.55	4,980.96	40.18	22.76	16.91	1,510.85	2,849.78	1,373.24	1,335.14	38.10	36.041	
5,300.00	4,761.96	5,128.66	5,032.07	41.28	23.07	17.87	1,500.10	2,840.10	1,301.01	1,261.88	39.14	33.243	
5,400.00	4,845.66	5,180.30	5,081.86	42.37	23.36	18.90	1,489.57	2,831.32	1,229.85	1,189.59	40.26	30.549	
5,500.00	4,929.35	5,241.80	5,141.22	43.47	23.71	20.27	1,476.67	2,821.71	1,159.82	1,118.38	41.44	27.985	
5,600.00	5,013.05	5,317.25	5,213.90	44.57	24.13	22.18	1,460.33	2,809.80	1,090.07	1,047.38	42.69	25.534	
5,700.00	5,096.75	5,368.49	5,263.36	45.67	24.42	23.61	1,449.46	2,801.93	1,021.31	977.13	44.18	23.119	
5,800.00	5,180.45	5,433.26	5,326.07	46.77	24.78	25.57	1,436.31	2,792.50	954.03	908.27	45.76	20.849	
5,900.00	5,264.14	5,510.88	5,401.06	47.87	25.21	28.26	1,420.03	2,780.81	887.22	839.72	47.49	18.681	
6,000.00	5,347.84	5,573.74	5,461.82	48.97	25.56	30.72	1,407.06	2,771.24	821.50	771.95	49.55	16.578	
6,100.00	5,431.54	5,638.37	5,524.38	50.07	25.92	33.53	1,394.07	2,761.53	757.42	705.52	51.90	14.593	
6,200.00	5,515.23	5,704.25	5,588.21	51.17	26.28	36.77	1,380.90	2,751.94	695.47	640.83	54.63	12.729	
6,300.00	5,598.93	5,773.47	5,655.35	52.27	26.66	40.62	1,367.39	2,741.89	635.88	578.08	57.80	11.001	
6,400.00	5,682.63	5,848.99	5,728.66	53.38	27.07	45.37	1,353.23	2,730.50	578.86	517.40	61.46	9.418	
6,500.00	5,766.33	5,918.64	5,796.28	54.48	27.44	50.34	1,340.81	2,719.42	525.06	459.34	65.72	7.989	
6,600.00	5,850.02	5,985.69	5,861.53	55.58	27.80	55.70	1,329.40	2,709.00	476.43	405.88	70.55	6.753	
6,700.00	5,933.72	6,050.52	5,924.53	56.68	28.15	61.55	1,317.64	2,699.19	434.92	359.06	75.86	5.733	
6,800.00	6,017.42	6,116.20	5,988.36	57.79	28.50	68.04	1,305.35	2,689.84	402.98	321.84	81.15	4.966	
6,900.00	6,101.12	6,185.66	6,056.32	58.89	28.85	75.16	1,293.79	2,681.31	382.27	296.66	85.60	4.466	
7,000.00	6,184.81	6,259.03	6,128.53	59.99	29.19	82.72	1,283.15	2,673.92	373.55	284.98	88.57	4.217	
7,023.79	6,204.73	6,277.15	6,146.42	60.26	29.28	84.57	1,280.73	2,672.29	373.23	284.21	89.02	4.193	CC, ES, SF
7,100.00	6,268.51	6,335.64	6,204.18	61.10	29.54	90.52	1,273.15	2,667.12	376.54	286.78	89.75	4.195	
7,200.00	6,352.21	6,417.39	6,285.01	62.20	29.90	98.58	1,263.44	2,659.76	390.12	300.82	89.30	4.368	
7,300.00	6,435.90	6,501.34	6,368.19	63.31	30.25	106.33	1,255.07	2,652.03	412.47	324.84	87.63	4.707	
7,400.00	6,519.60	6,585.34	6,451.72	64.41	30.58	113.22	1,248.69	2,645.97	441.63	356.24	85.39	5.172	
7,500.00	6,603.30	6,669.85	6,535.92	65.51	30.89	119.32	1,243.32	2,641.05	476.35	393.31	83.04	5.736	
7,600.00	6,687.00	6,755.33	6,621.16	66.62	31.19	124.77	1,239.06	2,636.33	514.98	434.17	80.81	6.373	
7,700.00	6,770.69	6,841.01	6,706.65	67.72	31.49	129.56	1,235.57	2,631.90	556.80	477.98	78.82	7.064	
7,800.00	6,854.39	6,932.33	6,797.86	68.83	31.79	133.98	1,233.18	2,628.01	600.37	523.16	77.21	7.776	
7,900.00	6,938.09	7,019.92	6,885.38	69.93	32.06	137.64	1,231.84	2,625.04	645.30	569.43	75.87	8.506	
7,933.18	6,965.86	7,046.46	6,911.91	70.30	32.14	138.66	1,231.51	2,624.21	660.55	585.10	75.45	8.755	
7,950.00	6,980.00	7,060.38	6,925.82	70.49	32.19	136.57	1,231.34	2,623.78	668.15	592.89	75.25	8.879	
8,000.00	7,022.68	7,102.44	6,967.86	71.01	32.32	129.77	1,230.84	2,622.48	688.56	613.93	74.63	9.227	
8,050.00	7,066.06	7,144.90	7,010.30	71.51	32.45	122.21	1,230.28	2,621.32	705.73	631.76	73.96	9.541	
8,100.00	7,109.82	7,188.07	7,053.46	71.97	32.58	114.24	1,229.57	2,620.41	719.64	646.37	73.27	9.821	
8,150.00	7,153.63	7,237.41	7,102.78	72.38	32.72	106.57	1,228.75	2,619.73	730.18	657.55	72.63	10.054	
8,200.00	7,197.14	7,288.41	7,153.78	72.74	32.87	99.57	1,228.24	2,619.49	737.10	665.14	71.96	10.243	
8,250.00	7,240.04	7,335.10	7,200.47	73.05	33.00	93.44	1,228.09	2,619.45	740.60	669.41	71.19	10.404	
8,300.00	7,281.99	7,380.24	7,245.61	73.31	33.12	88.51	1,228.28	2,619.28	740.98	670.65	70.33	10.536	
8,350.00	7,322.67	7,569.47	7,432.98	73.52	33.48	92.49	1,250.90	2,620.99	734.95	665.24	69.71	10.543	
8,400.00	7,361.77	7,720.66	7,572.88	73.68	33.57	98.80	1,307.15	2,619.22	719.38	652.70	66.68	10.788	
8,450.00	7,399.01	7,770.15	7,615.55	73.78	33.56	100.13	1,332.14	2,617.47	702.33	637.03	65.30	10.756	
8,500.00	7,434.08	7,935.89	7,742.16	73.85	33.42	112.92	1,438.02	2,614.50	684.99	622.80	62.19	11.015	
8,550.00	7,466.74	7,918.58	7,730.65	73.87	33.44	110.30	1,425.10	2,614.62	668.34	605.14	63.20	10.575	
8,600.00	7,496.72	7,884.87	7,706.93	73.85	33.49	106.47	1,401.16	2,614.78	653.64	589.45	64.19	10.183	
8,650.00	7,523.80	7,849.00	7,679.79	73.79	33.52	102.60	1,377.71	2,615.09	640.75	575.82	64.93	9.868	
8,700.00	7,547.77	7,819.92	7,656.72	73.70	33.54	99.49	1,360.03	2,615.72	629.72	564.19	65.52	9.611	
8,750.00	7,568.45	7,800.80	7,641.13	73.58	33.55	97.39	1,348.98	2,616.36	620.51	554.24	66.27	9.363	
8,800.00	7,585.69	7,783.68	7,626.92	73.43	33.56	95.56	1,339.44	2,616.97	613.21	545.94	67.27	9.116	
8,850.00	7,599.35	7,764.49	7,610.75	73.26	33.57	93.61	1,329.14	2,617.68	607.71	539.24	68.46	8.876	
8,900.00	7,609.33	7,746.52	7,595.37	73.07	33.57	91.85	1,319.87	2,618.34	603.90	533.92	69.98	8.629	
8,950.00	7,615.55	7,727.24	7,578.64	72.87	33.57	90.05	1,310.32	2,619.00	601.66	529.93	71.72	8.388	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	7,707.62	7,561.37	72.65	33.57	88.32	1,301.03	2,619.62	600.80	527.10	73.70	8.152	
9,006.60	7,618.00	7,705.07	7,559.11	72.62	33.57	88.10	1,299.85	2,619.69	600.78	526.80	73.98	8.121	
9,007.49	7,618.00	7,704.73	7,558.80	72.62	33.57	88.07	1,299.70	2,619.70	600.78	526.76	74.01	8.117	
9,100.00	7,618.00	7,672.12	7,529.49	72.22	33.56	85.28	1,285.43	2,620.48	606.72	528.51	78.21	7.757	
9,200.00	7,618.00	7,644.24	7,503.91	71.80	33.55	82.86	1,274.38	2,620.89	626.57	543.61	82.96	7.552	
9,300.00	7,618.00	7,622.00	7,483.15	71.41	33.53	80.91	1,266.41	2,621.03	659.68	572.40	87.28	7.558	
9,400.00	7,618.00	7,602.29	7,464.50	71.04	33.51	79.18	1,260.01	2,621.06	704.52	613.77	90.75	7.764	
9,500.00	7,618.00	7,586.54	7,449.44	70.68	33.50	77.79	1,255.40	2,621.05	759.23	665.83	93.40	8.129	
9,600.00	7,618.00	7,575.00	7,438.33	70.35	33.49	76.78	1,252.30	2,621.02	822.02	726.67	95.35	8.621	
9,700.00	7,618.00	7,561.88	7,425.62	70.04	33.47	75.64	1,249.05	2,620.95	891.26	794.66	96.60	9.226	
9,800.00	7,618.00	7,551.88	7,415.89	69.75	33.46	74.77	1,246.74	2,620.86	965.65	868.19	97.47	9.908	
9,900.00	7,618.00	7,543.11	7,407.33	69.47	33.45	74.01	1,244.86	2,620.77	1,044.13	946.12	98.01	10.653	
10,000.00	7,618.00	7,528.00	7,392.51	69.22	33.43	72.72	1,241.88	2,620.55	1,125.93	1,027.72	98.22	11.464	
10,100.00	7,618.00	7,528.00	7,392.51	68.99	33.43	72.72	1,241.88	2,620.55	1,210.23	1,111.74	98.49	12.288	
10,200.00	7,618.00	7,528.00	7,392.51	68.78	33.43	72.72	1,241.88	2,620.55	1,296.77	1,198.14	98.63	13.148	
10,300.00	7,618.00	7,514.04	7,378.77	68.59	33.40	71.53	1,239.42	2,620.32	1,384.94	1,286.42	98.52	14.058	
10,400.00	7,618.00	7,507.74	7,372.56	68.42	33.39	71.01	1,238.38	2,620.21	1,474.58	1,376.14	98.45	14.979	
10,500.00	7,618.00	7,501.98	7,366.87	68.28	33.38	70.52	1,237.48	2,620.11	1,565.42	1,467.08	98.34	15.918	
10,600.00	7,618.00	7,496.69	7,361.64	68.16	33.37	70.08	1,236.68	2,620.01	1,657.26	1,559.04	98.22	16.872	
10,700.00	7,618.00	7,481.00	7,346.11	68.06	33.35	68.79	1,234.51	2,619.71	1,750.06	1,652.04	98.02	17.855	
10,800.00	7,618.00	7,481.00	7,346.11	67.99	33.35	68.79	1,234.51	2,619.71	1,843.41	1,745.50	97.91	18.827	
10,900.00	7,618.00	7,481.00	7,346.11	67.95	33.35	68.79	1,234.51	2,619.71	1,937.43	1,839.63	97.80	19.809	
11,000.00	7,618.00	7,481.00	7,346.11	67.95	33.35	68.79	1,234.51	2,619.71	2,032.02	1,934.33	97.69	20.802	
11,100.00	7,618.00	7,481.00	7,346.11	67.97	33.35	68.79	1,234.51	2,619.71	2,127.10	2,029.54	97.56	21.802	
11,200.00	7,618.00	7,481.00	7,346.11	68.04	33.35	68.79	1,234.51	2,619.71	2,222.62	2,125.18	97.44	22.809	
11,300.00	7,618.00	7,481.00	7,346.11	68.15	33.35	68.79	1,234.51	2,619.71	2,318.51	2,221.19	97.32	23.823	
11,400.00	7,618.00	7,481.00	7,346.11	68.30	33.35	68.79	1,234.51	2,619.71	2,414.74	2,317.54	97.20	24.842	
11,500.00	7,618.00	7,481.00	7,346.11	68.50	33.35	68.79	1,234.51	2,619.71	2,511.26	2,414.17	97.09	25.866	
11,600.00	7,618.00	7,462.12	7,327.35	68.75	33.31	67.26	1,232.34	2,619.41	2,607.74	2,510.84	96.91	26.910	
11,700.00	7,618.00	7,459.87	7,325.12	69.06	33.31	67.08	1,232.11	2,619.38	2,704.69	2,607.89	96.80	27.942	
11,800.00	7,618.00	7,457.76	7,323.02	69.44	33.30	66.91	1,231.90	2,619.35	2,801.84	2,705.15	96.69	28.978	
11,900.00	7,618.00	7,455.77	7,321.04	69.88	33.30	66.76	1,231.72	2,619.33	2,899.18	2,802.59	96.59	30.017	
12,000.00	7,618.00	7,453.90	7,319.17	70.39	33.29	66.61	1,231.54	2,619.31	2,996.68	2,900.20	96.49	31.058	
12,100.00	7,618.00	7,452.13	7,317.41	70.97	33.29	66.47	1,231.39	2,619.30	3,094.35	2,997.95	96.39	32.101	
12,200.00	7,618.00	7,433.00	7,298.33	71.63	33.25	64.96	1,229.96	2,619.18	3,192.40	3,096.14	96.26	33.165	
12,300.00	7,618.00	7,433.00	7,298.33	72.35	33.25	64.96	1,229.96	2,619.18	3,290.28	3,194.10	96.18	34.210	
12,400.00	7,618.00	7,433.00	7,298.33	73.15	33.25	64.96	1,229.96	2,619.18	3,388.29	3,292.19	96.10	35.257	
12,500.00	7,618.00	7,433.00	7,298.33	74.01	33.25	64.96	1,229.96	2,619.18	3,486.41	3,390.38	96.03	36.305	
12,600.00	7,618.00	7,433.00	7,298.33	74.93	33.25	64.96	1,229.96	2,619.18	3,584.64	3,488.68	95.96	37.355	
12,700.00	7,618.00	7,433.00	7,298.33	75.91	33.25	64.96	1,229.96	2,619.18	3,682.96	3,587.06	95.90	38.406	
12,800.00	7,618.00	7,433.00	7,298.33	76.95	33.25	64.96	1,229.96	2,619.18	3,781.37	3,685.53	95.83	39.458	
12,900.00	7,618.00	7,433.00	7,298.33	78.04	33.25	64.96	1,229.96	2,619.18	3,879.86	3,784.09	95.77	40.511	
13,000.00	7,618.00	7,433.00	7,298.33	79.16	33.25	64.96	1,229.96	2,619.18	3,978.42	3,882.71	95.71	41.565	
13,100.00	7,618.00	7,433.00	7,298.33	80.33	33.25	64.96	1,229.96	2,619.18	4,077.06	3,981.40	95.66	42.620	
13,200.00	7,618.00	7,433.00	7,298.33	81.54	33.25	64.96	1,229.96	2,619.18	4,175.76	4,080.15	95.61	43.676	
13,300.00	7,618.00	7,433.00	7,298.33	82.78	33.25	64.96	1,229.96	2,619.18	4,274.52	4,178.96	95.56	44.732	
13,400.00	7,618.00	7,433.00	7,298.33	84.05	33.25	64.96	1,229.96	2,619.18	4,373.34	4,277.83	95.51	45.789	
13,500.00	7,618.00	7,433.00	7,298.33	85.35	33.25	64.96	1,229.96	2,619.18	4,472.21	4,376.74	95.47	46.846	
13,600.00	7,618.00	7,433.00	7,298.33	86.67	33.25	64.96	1,229.96	2,619.18	4,571.13	4,475.70	95.42	47.904	
13,700.00	7,618.00	7,433.00	7,298.33	88.02	33.25	64.96	1,229.96	2,619.18	4,670.09	4,574.71	95.38	48.961	
13,800.00	7,618.00	7,433.00	7,298.33	89.38	33.25	64.96	1,229.96	2,619.18	4,769.10	4,673.75	95.34	50.020	
13,900.00	7,618.00	7,433.00	7,298.33	90.77	33.25	64.96	1,229.96	2,619.18	4,868.15	4,772.84	95.31	51.078	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,618.00	7,433.00	7,298.33	92.17	33.25	64.96	1,229.96	2,619.18	4,967.23	4,871.96	95.27	52.136	
14,100.00	7,618.00	7,433.00	7,298.33	93.59	33.25	64.96	1,229.96	2,619.18	5,066.36	4,971.11	95.24	53.195	
14,200.00	7,618.00	7,433.00	7,298.33	95.02	33.25	64.96	1,229.96	2,619.18	5,165.51	5,070.30	95.21	54.253	
14,300.00	7,618.00	7,433.00	7,298.33	96.47	33.25	64.96	1,229.96	2,619.18	5,264.70	5,169.52	95.18	55.311	
14,400.00	7,618.00	7,433.00	7,298.33	97.93	33.25	64.96	1,229.96	2,619.18	5,363.92	5,268.76	95.16	56.370	
14,500.00	7,618.00	7,433.00	7,298.33	99.41	33.25	64.96	1,229.96	2,619.18	5,463.17	5,368.04	95.13	57.428	
14,600.00	7,618.00	7,433.00	7,298.33	100.89	33.25	64.96	1,229.96	2,619.18	5,562.44	5,467.33	95.11	58.486	
14,700.00	7,618.00	7,433.00	7,298.33	102.38	33.25	64.96	1,229.96	2,619.18	5,661.74	5,566.66	95.09	59.544	
14,800.00	7,618.00	7,433.00	7,298.33	103.89	33.25	64.96	1,229.96	2,619.18	5,761.06	5,666.00	95.06	60.602	
14,900.00	7,618.00	7,433.00	7,298.33	105.40	33.25	64.96	1,229.96	2,619.18	5,860.41	5,765.37	95.05	61.659	
15,000.00	7,618.00	7,433.00	7,298.33	106.92	33.25	64.96	1,229.96	2,619.18	5,959.78	5,864.75	95.03	62.716	
15,100.00	7,618.00	7,433.00	7,298.33	108.45	33.25	64.96	1,229.96	2,619.18	6,059.17	5,964.16	95.01	63.773	
15,200.00	7,618.00	7,433.00	7,298.33	109.99	33.25	64.96	1,229.96	2,619.18	6,158.58	6,063.58	95.00	64.829	
15,300.00	7,618.00	7,433.00	7,298.33	111.54	33.25	64.96	1,229.96	2,619.18	6,258.01	6,163.02	94.98	65.885	
15,400.00	7,618.00	7,433.00	7,298.33	113.09	33.25	64.96	1,229.96	2,619.18	6,357.45	6,262.48	94.97	66.940	
15,500.00	7,618.00	7,433.00	7,298.33	114.65	33.25	64.96	1,229.96	2,619.18	6,456.92	6,361.95	94.96	67.995	
15,600.00	7,618.00	7,433.00	7,298.33	116.21	33.25	64.96	1,229.96	2,619.18	6,556.39	6,461.44	94.95	69.050	
15,700.00	7,618.00	7,433.00	7,298.33	117.78	33.25	64.96	1,229.96	2,619.18	6,655.89	6,560.95	94.94	70.104	
15,800.00	7,618.00	7,433.00	7,298.33	119.36	33.25	64.96	1,229.96	2,619.18	6,755.40	6,660.46	94.94	71.158	
15,900.00	7,618.00	7,433.00	7,298.33	120.94	33.25	64.96	1,229.96	2,619.18	6,854.92	6,759.99	94.93	72.211	
16,000.00	7,618.00	7,433.00	7,298.33	122.53	33.25	64.96	1,229.96	2,619.18	6,954.46	6,859.54	94.92	73.263	
16,100.00	7,618.00	7,433.00	7,298.33	124.12	33.25	64.96	1,229.96	2,619.18	7,054.01	6,959.09	94.92	74.315	
16,200.00	7,618.00	7,433.00	7,298.33	125.72	33.25	64.96	1,229.96	2,619.18	7,153.58	7,058.66	94.92	75.366	
16,300.00	7,618.00	7,433.00	7,298.33	127.32	33.25	64.96	1,229.96	2,619.18	7,253.15	7,158.24	94.92	76.416	
16,400.00	7,618.00	7,433.00	7,298.33	128.93	33.25	64.96	1,229.96	2,619.18	7,352.74	7,257.82	94.92	77.466	
16,500.00	7,618.00	7,433.00	7,298.33	130.54	33.25	64.96	1,229.96	2,619.18	7,452.34	7,357.42	94.92	78.515	
16,600.00	7,618.00	7,433.00	7,298.33	132.15	33.25	64.96	1,229.96	2,619.18	7,551.94	7,457.03	94.92	79.564	
16,700.00	7,618.00	7,433.00	7,298.33	133.77	33.25	64.96	1,229.96	2,619.18	7,651.56	7,556.64	94.92	80.611	
16,800.00	7,618.00	7,433.00	7,298.33	135.39	33.25	64.96	1,229.96	2,619.18	7,751.19	7,656.27	94.92	81.658	
16,900.00	7,618.00	7,433.00	7,298.33	137.01	33.25	64.96	1,229.96	2,619.18	7,850.83	7,755.90	94.93	82.705	
17,000.00	7,618.00	7,412.35	7,277.71	138.64	33.20	63.36	1,228.94	2,619.16	7,950.22	7,855.31	94.91	83.767	
17,100.00	7,618.00	7,411.96	7,277.32	140.27	33.20	63.33	1,228.93	2,619.16	8,049.86	7,954.95	94.91	84.812	
17,200.00	7,618.00	7,411.58	7,276.94	141.91	33.20	63.31	1,228.92	2,619.16	8,149.52	8,054.60	94.92	85.856	
17,300.00	7,618.00	7,411.21	7,276.57	143.55	33.20	63.28	1,228.90	2,619.16	8,249.18	8,154.25	94.93	86.900	
17,400.00	7,618.00	7,410.85	7,276.21	145.19	33.20	63.25	1,228.89	2,619.16	8,348.85	8,253.92	94.94	87.942	
17,500.00	7,618.00	7,410.50	7,275.86	146.83	33.20	63.22	1,228.88	2,619.16	8,448.53	8,353.59	94.94	88.984	
17,600.00	7,618.00	7,410.15	7,275.51	148.48	33.20	63.20	1,228.86	2,619.17	8,548.22	8,453.26	94.95	90.024	
17,700.00	7,618.00	7,409.81	7,275.17	150.13	33.20	63.17	1,228.85	2,619.17	8,647.91	8,552.95	94.97	91.064	
17,800.00	7,618.00	7,409.48	7,274.84	151.78	33.19	63.15	1,228.84	2,619.17	8,747.61	8,652.63	94.98	92.103	
17,900.00	7,618.00	7,409.15	7,274.52	153.43	33.19	63.12	1,228.83	2,619.17	8,847.32	8,752.33	94.99	93.141	
18,000.00	7,618.00	7,408.83	7,274.20	155.09	33.19	63.10	1,228.82	2,619.17	8,947.03	8,852.03	95.00	94.178	
18,100.00	7,618.00	7,408.52	7,273.89	156.75	33.19	63.07	1,228.81	2,619.17	9,046.75	8,951.73	95.02	95.214	
18,200.00	7,618.00	7,408.22	7,273.58	158.41	33.19	63.05	1,228.80	2,619.17	9,146.47	9,051.45	95.03	96.249	
18,300.00	7,618.00	7,407.92	7,273.28	160.07	33.19	63.03	1,228.79	2,619.17	9,246.21	9,151.16	95.04	97.283	
18,400.00	7,618.00	7,407.62	7,272.99	161.74	33.19	63.01	1,228.78	2,619.17	9,345.94	9,250.88	95.06	98.316	
18,500.00	7,618.00	7,407.34	7,272.70	163.41	33.19	62.98	1,228.77	2,619.17	9,445.68	9,350.61	95.08	99.348	
18,600.00	7,618.00	7,407.05	7,272.42	165.08	33.19	62.96	1,228.76	2,619.17	9,545.43	9,450.34	95.09	100.378	
18,700.00	7,618.00	7,386.00	7,251.37	166.75	33.14	61.39	1,228.33	2,619.25	9,645.44	9,550.35	95.09	101.433	
18,711.30	7,618.00	7,386.00	7,251.37	166.94	33.14	61.39	1,228.33	2,619.25	9,656.72	9,561.62	95.09	101.549	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	58.39	2,112.75	3,432.26	4,030.59				
100.00	100.00	50.57	50.57	0.13	0.09	58.39	2,112.75	3,432.30	4,030.45	4,030.22	0.23	N/A	
200.00	200.00	125.00	125.00	0.49	0.36	58.39	2,112.81	3,432.81	4,031.07	4,030.21	0.85	4,730.256	
300.00	300.00	194.04	194.03	0.85	0.61	58.39	2,113.09	3,433.73	4,032.38	4,030.92	1.46	2,764.694	
400.00	400.00	288.48	288.45	1.21	0.95	58.39	2,113.92	3,435.27	4,034.23	4,032.07	2.15	1,872.158	
500.00	500.00	442.75	442.71	1.57	1.50	58.40	2,114.63	3,437.05	4,035.50	4,032.44	3.06	1,317.598	
600.00	600.00	567.76	567.72	1.93	1.92	58.40	2,114.43	3,437.20	4,035.50	4,031.65	3.85	1,048.296	
700.00	700.00	679.22	679.18	2.29	2.30	58.40	2,114.67	3,436.77	4,035.29	4,030.70	4.58	880.109	
800.00	800.00	803.64	803.60	2.64	2.72	58.39	2,114.68	3,435.63	4,034.51	4,029.14	5.37	751.642	
900.00	900.00	883.02	882.97	3.00	3.00	58.38	2,114.53	3,434.87	4,033.62	4,027.62	6.00	672.235	
1,000.00	999.98	978.27	978.22	3.36	3.33	1.19	2,114.86	3,434.34	4,031.57	4,024.88	6.69	602.912	
1,100.00	1,099.84	1,113.60	1,113.53	3.71	3.80	1.17	2,115.30	3,432.71	4,025.49	4,017.97	7.51	535.791	
1,200.00	1,199.45	1,846.22	1,842.03	4.07	6.46	1.32	2,076.85	3,385.35	4,014.23	4,003.87	10.36	387.476	
1,300.00	1,298.70	1,967.87	1,961.29	4.44	6.95	1.50	2,056.47	3,372.76	3,984.64	3,973.50	11.14	357.653	
1,400.00	1,397.47	2,084.64	2,075.44	4.82	7.44	1.74	2,034.07	3,362.66	3,952.08	3,940.17	11.91	331.764	
1,500.00	1,495.62	2,167.87	2,156.50	5.22	7.80	1.95	2,016.50	3,355.67	3,915.43	3,902.86	12.58	311.332	
1,600.00	1,593.06	2,252.43	2,238.99	5.65	8.17	2.18	1,999.20	3,348.82	3,876.13	3,862.88	13.25	292.555	
1,700.00	1,689.64	2,335.64	2,320.10	6.11	8.54	2.42	1,981.87	3,342.15	3,833.59	3,819.67	13.92	275.383	
1,800.00	1,785.27	2,387.00	2,370.25	6.61	8.77	2.59	1,971.59	3,338.02	3,788.43	3,773.95	14.48	261.565	
1,900.00	1,879.82	2,456.27	2,438.03	7.15	9.08	2.80	1,958.36	3,332.64	3,740.81	3,725.70	15.11	247.550	
2,000.00	1,973.17	2,511.57	2,492.26	7.73	9.33	3.00	1,948.30	3,328.63	3,690.94	3,675.25	15.69	235.219	
2,100.00	2,065.21	2,573.00	2,552.61	8.37	9.60	3.22	1,937.63	3,324.49	3,638.81	3,622.51	16.29	223.321	
2,200.00	2,155.84	2,618.76	2,597.65	9.07	9.80	3.41	1,930.09	3,321.60	3,584.44	3,567.60	16.84	212.802	
2,300.00	2,244.94	2,670.42	2,648.59	9.82	10.02	3.63	1,922.03	3,318.54	3,527.92	3,510.51	17.42	202.569	
2,400.00	2,332.39	2,721.49	2,699.03	10.64	10.24	3.86	1,914.56	3,315.71	3,469.27	3,451.28	17.99	192.866	
2,500.00	2,418.11	2,794.56	2,771.32	11.53	10.56	4.17	1,904.64	3,311.87	3,408.45	3,389.82	18.63	182.944	
2,558.91	2,467.74	2,883.49	2,859.31	12.08	10.94	4.48	1,893.15	3,306.03	3,371.01	3,351.86	19.15	176.022	
2,600.00	2,502.13	2,951.30	2,926.32	12.47	11.23	4.66	1,884.26	3,300.70	3,344.19	3,324.66	19.52	171.290	
2,700.00	2,585.83	3,025.69	2,999.73	13.45	11.56	4.88	1,873.71	3,294.90	3,278.56	3,258.40	20.16	162.634	
2,800.00	2,669.53	3,085.17	3,058.38	14.44	11.82	5.08	1,864.76	3,290.64	3,213.08	3,192.32	20.76	154.757	
2,900.00	2,753.22	3,130.00	3,102.61	15.46	12.02	5.24	1,858.09	3,287.65	3,148.09	3,126.75	21.33	147.560	
3,000.00	2,836.92	3,186.19	3,158.13	16.48	12.26	5.43	1,850.20	3,284.15	3,083.71	3,061.76	21.95	140.510	
3,100.00	2,920.62	3,357.84	3,327.84	17.52	13.01	6.02	1,827.57	3,271.93	3,019.66	2,996.81	22.85	132.133	
3,200.00	3,004.32	3,456.63	3,425.16	18.56	13.45	6.35	1,814.04	3,261.78	2,952.66	2,929.09	23.57	125.288	
3,300.00	3,088.01	3,519.37	3,487.02	19.61	13.73	6.57	1,805.69	3,255.40	2,885.98	2,861.78	24.21	119.229	
3,400.00	3,171.71	3,630.89	3,596.81	20.67	14.23	6.98	1,790.34	3,243.38	2,818.73	2,793.78	24.94	113.002	
3,500.00	3,255.41	3,709.05	3,673.70	21.73	14.59	7.29	1,779.35	3,234.63	2,751.21	2,725.59	25.62	107.379	
3,600.00	3,339.10	3,814.80	3,777.44	22.80	15.09	7.78	1,762.77	3,222.57	2,682.97	2,656.62	26.35	101.812	
3,700.00	3,422.80	3,882.10	3,843.33	23.87	15.41	8.13	1,751.24	3,215.15	2,614.59	2,587.56	27.03	96.722	
3,800.00	3,506.50	3,928.61	3,888.88	24.94	15.63	8.40	1,743.19	3,210.35	2,546.68	2,518.99	27.70	91.955	
3,900.00	3,590.20	3,980.00	3,939.33	26.02	15.88	8.70	1,734.64	3,205.50	2,479.62	2,451.24	28.38	87.377	
4,000.00	3,673.89	4,048.57	4,006.64	27.10	16.20	9.12	1,723.06	3,199.52	2,413.05	2,383.95	29.10	82.925	
4,100.00	3,757.59	4,102.84	4,059.87	28.18	16.45	9.49	1,713.42	3,195.08	2,346.69	2,316.87	29.82	78.699	
4,200.00	3,841.29	4,146.12	4,102.39	29.26	16.66	9.80	1,705.94	3,192.06	2,281.35	2,250.81	30.54	74.694	
4,300.00	3,924.99	4,222.62	4,177.70	30.35	17.01	10.36	1,693.34	3,187.23	2,216.86	2,185.54	31.32	70.792	
4,400.00	4,008.68	4,390.41	4,342.50	31.44	17.80	11.61	1,666.08	3,171.68	2,150.53	2,118.40	32.13	66.931	
4,500.00	4,092.38	4,470.81	4,421.07	32.52	18.19	12.30	1,651.61	3,162.68	2,082.53	2,049.62	32.91	63.278	
4,600.00	4,176.08	4,529.08	4,478.06	33.62	18.48	12.83	1,641.26	3,156.27	2,014.87	1,981.16	33.71	59.772	
4,700.00	4,259.77	4,617.32	4,564.33	34.71	18.92	13.69	1,625.42	3,146.70	1,947.46	1,912.93	34.53	56.407	
4,800.00	4,343.47	4,680.34	4,625.78	35.80	19.23	14.38	1,613.23	3,139.83	1,879.77	1,844.39	35.38	53.132	
4,900.00	4,427.17	4,735.00	4,679.22	36.89	19.50	15.00	1,603.26	3,134.16	1,812.95	1,776.69	36.27	49.991	
5,000.00	4,510.87	4,814.37	4,756.99	37.99	19.89	15.90	1,589.78	3,125.74	1,746.54	1,709.39	37.15	47.011	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	4,896.22	4,837.12	39.08	20.29	16.91	1,575.83	3,116.60	1,679.97	1,641.91	38.07	44.133	
5,200.00	4,678.26	4,968.28	4,907.41	40.18	20.65	17.94	1,562.02	3,108.84	1,613.39	1,574.33	39.05	41.314	
5,300.00	4,761.96	5,034.22	4,971.71	41.28	20.98	18.97	1,549.15	3,101.95	1,547.27	1,507.17	40.10	38.583	
5,400.00	4,845.66	5,095.97	5,031.96	42.37	21.29	20.00	1,537.08	3,095.84	1,481.92	1,440.70	41.22	35.951	
5,500.00	4,929.35	5,159.03	5,093.56	43.47	21.61	21.13	1,524.89	3,089.96	1,417.47	1,375.07	42.40	33.427	
5,600.00	5,013.05	5,222.28	5,155.43	44.57	21.92	22.33	1,513.01	3,084.34	1,353.96	1,310.30	43.66	31.010	
5,700.00	5,096.75	5,283.73	5,215.60	45.67	22.22	23.58	1,501.65	3,079.32	1,291.59	1,246.58	45.01	28.697	
5,800.00	5,180.45	5,346.03	5,276.67	46.77	22.52	24.94	1,490.19	3,074.76	1,230.52	1,184.06	46.46	26.488	
5,900.00	5,264.14	5,414.44	5,343.76	47.87	22.85	26.56	1,477.49	3,070.37	1,170.83	1,122.81	48.02	24.383	
6,000.00	5,347.84	5,501.01	5,428.58	48.97	23.27	28.81	1,461.26	3,064.36	1,111.66	1,061.95	49.71	22.363	
6,100.00	5,431.54	5,559.18	5,485.61	50.07	23.55	30.45	1,450.51	3,060.50	1,053.78	1,002.21	51.57	20.433	
6,200.00	5,515.23	5,630.00	5,555.15	51.17	23.89	32.59	1,437.77	3,056.31	997.76	944.16	53.59	18.617	
6,300.00	5,598.93	5,706.18	5,630.02	52.27	24.25	35.07	1,424.54	3,051.67	943.10	887.30	55.80	16.902	
6,400.00	5,682.63	5,786.44	5,708.99	53.38	24.62	37.90	1,411.11	3,046.55	889.93	831.71	58.21	15.287	
6,500.00	5,766.33	5,884.81	5,805.55	54.48	25.10	41.79	1,394.31	3,038.20	837.08	776.19	60.89	13.747	
6,600.00	5,850.02	5,964.12	5,883.18	55.58	25.49	45.34	1,380.24	3,030.08	785.42	721.52	63.90	12.292	
6,700.00	5,933.72	6,027.36	5,945.13	56.68	25.79	48.41	1,369.24	3,023.75	736.81	669.64	67.17	10.970	
6,800.00	6,017.42	6,093.27	6,009.90	57.79	26.10	51.79	1,358.49	3,017.97	692.42	621.76	70.66	9.799	
6,900.00	6,101.12	6,164.01	6,079.61	58.89	26.44	55.63	1,347.75	3,012.65	652.73	578.40	74.33	8.781	
7,000.00	6,184.81	6,247.20	6,161.62	59.99	26.82	60.50	1,335.47	3,005.94	617.23	539.06	78.17	7.896	
7,100.00	6,268.51	6,315.65	6,229.02	61.10	27.14	64.81	1,325.06	3,000.16	587.12	505.14	81.97	7.162	
7,200.00	6,352.21	6,386.51	6,298.81	62.20	27.47	69.50	1,314.05	2,994.70	564.04	478.47	85.56	6.592	
7,300.00	6,435.90	6,460.32	6,371.72	63.31	27.80	74.46	1,303.56	2,990.06	548.35	459.67	88.68	6.183	
7,400.00	6,519.60	6,536.30	6,446.96	64.41	28.13	79.58	1,293.69	2,986.34	540.24	449.08	91.16	5.926	
7,462.83	6,572.19	6,586.70	6,496.98	65.10	28.33	82.95	1,287.72	2,984.41	538.88	446.52	92.35	5.835	
7,500.00	6,603.30	6,617.01	6,527.08	65.51	28.46	84.95	1,284.38	2,983.43	539.34	446.42	92.93	5.804	
7,600.00	6,687.00	6,696.92	6,606.56	66.62	28.77	90.10	1,276.27	2,981.64	545.23	451.30	93.93	5.805	
7,700.00	6,770.69	6,782.21	6,691.50	67.72	29.09	95.36	1,268.66	2,980.77	557.28	462.94	94.33	5.907	
7,800.00	6,854.39	6,880.81	6,789.85	68.83	29.44	101.14	1,261.86	2,979.78	573.77	479.42	94.35	6.081	
7,900.00	6,938.09	6,977.59	6,886.55	69.93	29.77	106.52	1,258.19	2,977.97	592.93	499.05	93.88	6.316	
7,933.18	6,965.86	7,009.48	6,918.43	70.30	29.87	108.20	1,257.54	2,977.60	599.96	506.30	93.66	6.406	
7,950.00	6,980.00	7,023.09	6,932.04	70.49	29.92	106.64	1,257.29	2,977.45	603.44	509.92	93.52	6.453	
8,000.00	7,022.68	7,067.27	6,976.21	71.01	30.05	101.38	1,256.61	2,976.96	611.58	518.50	93.08	6.570	
8,050.00	7,066.06	7,113.66	7,022.60	71.51	30.20	95.17	1,256.07	2,976.44	616.32	523.71	92.60	6.656	
8,100.00	7,109.82	7,162.80	7,071.73	71.97	30.35	88.43	1,255.89	2,975.93	617.37	525.29	92.08	6.705	
8,150.00	7,153.63	7,439.76	7,342.23	72.38	30.84	92.71	1,305.22	2,973.66	609.62	522.61	87.00	7.007	
8,200.00	7,197.14	7,615.02	7,496.09	72.74	30.89	96.11	1,388.23	2,974.02	584.39	506.07	78.33	7.461	
8,250.00	7,240.04	8,250.00	7,622.83	73.05	30.37	109.50	1,508.25	2,972.75	547.23	481.89	65.34	8.375	
8,300.00	7,281.99	7,848.11	7,657.53	73.31	30.72	116.88	1,554.49	2,973.65	507.30	447.63	59.67	8.502	
8,350.00	7,322.67	7,866.41	7,667.77	73.52	30.71	120.57	1,569.66	2,973.91	467.09	409.12	57.97	8.058	
8,400.00	7,361.77	7,872.50	7,671.10	73.68	30.70	123.03	1,574.75	2,974.01	427.67	370.48	57.19	7.478	
8,450.00	7,399.01	7,869.58	7,669.50	73.78	30.70	124.02	1,572.30	2,973.96	389.86	332.70	57.16	6.821	
8,500.00	7,434.08	7,859.97	7,664.20	73.85	30.71	123.59	1,564.30	2,973.81	354.42	296.68	57.74	6.138	
8,550.00	7,466.74	7,845.72	7,656.17	73.87	30.73	121.98	1,552.52	2,973.61	322.12	263.31	58.81	5.478	
8,600.00	7,496.72	7,828.73	7,646.34	73.85	30.74	119.48	1,538.67	2,973.38	293.82	233.57	60.25	4.877	
8,650.00	7,523.80	7,809.52	7,634.89	73.79	30.76	116.11	1,523.26	2,973.07	270.45	208.32	62.13	4.353	
8,700.00	7,547.77	7,786.30	7,620.57	73.70	30.78	111.43	1,504.98	2,972.67	252.89	188.35	64.54	3.918	
8,750.00	7,568.45	7,763.33	7,605.86	73.58	30.80	106.38	1,487.33	2,972.33	241.71	174.30	67.41	3.586	
8,800.00	7,585.69	7,731.47	7,584.51	73.43	30.83	99.03	1,463.69	2,972.06	237.04	167.09	69.95	3.389	
8,814.37	7,589.99	7,722.55	7,578.30	73.38	30.84	96.92	1,457.29	2,972.12	236.80	166.13	70.67	3.351	CC
8,850.00	7,599.35	7,702.12	7,563.69	73.26	30.85	91.97	1,443.01	2,972.44	238.24	165.58	72.67	3.279	ES
8,900.00	7,609.33	7,677.63	7,545.49	73.07	30.86	85.83	1,426.64	2,972.90	245.11	168.95	76.17	3.218	SF

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,950.00	7,615.55	7,653.24	7,526.66	72.87	30.87	79.75	1,411.15	2,973.33	256.87	177.24	79.63	3.226	
9,000.00	7,617.97	7,628.02	7,506.62	72.65	30.88	73.82	1,395.84	2,973.78	272.32	189.66	82.65	3.295	
9,006.60	7,618.00	7,624.67	7,503.92	72.62	30.88	73.07	1,393.86	2,973.84	274.57	191.55	83.02	3.307	
9,100.00	7,618.00	7,582.42	7,469.09	72.22	30.89	65.91	1,369.97	2,974.54	315.30	227.78	87.53	3.602	
9,200.00	7,618.00	7,546.49	7,438.38	71.80	30.89	60.19	1,351.33	2,974.84	374.48	283.72	90.76	4.126	
9,300.00	7,618.00	7,519.00	7,414.24	71.41	30.88	56.15	1,338.19	2,974.63	444.81	351.97	92.84	4.791	
9,400.00	7,618.00	7,487.53	7,386.02	71.04	30.87	51.89	1,324.26	2,974.17	522.25	428.76	93.49	5.586	
9,500.00	7,618.00	7,461.54	7,362.33	70.68	30.86	48.67	1,313.60	2,973.84	604.41	510.45	93.96	6.432	
9,600.00	7,618.00	7,437.93	7,340.53	70.35	30.84	45.95	1,304.53	2,973.65	689.86	595.63	94.23	7.321	
9,700.00	7,618.00	7,425.00	7,328.49	70.04	30.84	44.54	1,299.82	2,973.60	777.79	683.09	94.69	8.214	
9,800.00	7,618.00	7,402.34	7,307.19	69.75	30.81	42.21	1,292.07	2,973.60	867.52	772.87	94.65	9.166	
9,900.00	7,618.00	7,378.00	7,284.04	69.47	30.79	39.87	1,284.56	2,973.71	958.96	864.45	94.52	10.146	
10,000.00	7,618.00	7,378.00	7,284.04	69.22	30.79	39.87	1,284.56	2,973.71	1,051.34	956.42	94.92	11.076	
10,100.00	7,618.00	7,364.44	7,271.04	68.99	30.77	38.65	1,280.73	2,973.80	1,144.81	1,049.88	94.93	12.060	
10,200.00	7,618.00	7,354.01	7,260.99	68.78	30.76	37.75	1,277.94	2,973.87	1,239.05	1,144.09	94.96	13.049	
10,300.00	7,618.00	7,344.57	7,251.85	68.59	30.75	36.96	1,275.54	2,973.94	1,333.94	1,238.97	94.97	14.046	
10,400.00	7,618.00	7,331.00	7,238.68	68.42	30.73	35.86	1,272.30	2,974.03	1,429.39	1,334.48	94.91	15.060	
10,500.00	7,618.00	7,331.00	7,238.68	68.28	30.73	35.86	1,272.30	2,974.03	1,525.26	1,430.26	95.01	16.054	
10,600.00	7,618.00	7,331.00	7,238.68	68.16	30.73	35.86	1,272.30	2,974.03	1,621.63	1,526.56	95.07	17.058	
10,700.00	7,618.00	7,331.00	7,238.68	68.06	30.73	35.86	1,272.30	2,974.03	1,718.42	1,623.31	95.10	18.069	
10,800.00	7,618.00	7,312.13	7,220.25	67.99	30.70	34.42	1,268.25	2,974.20	1,815.14	1,720.18	94.97	19.114	
10,900.00	7,618.00	7,307.53	7,215.73	67.95	30.69	34.08	1,267.36	2,974.25	1,912.36	1,817.40	94.95	20.140	
11,000.00	7,618.00	7,303.27	7,211.56	67.95	30.68	33.77	1,266.57	2,974.29	2,009.80	1,914.87	94.94	21.170	
11,100.00	7,618.00	7,284.00	7,192.55	67.97	30.65	32.42	1,263.37	2,974.54	2,107.71	2,012.89	94.82	22.230	
11,200.00	7,618.00	7,284.00	7,192.55	68.04	30.65	32.42	1,263.37	2,974.54	2,205.43	2,110.60	94.83	23.257	
11,300.00	7,618.00	7,284.00	7,192.55	68.15	30.65	32.42	1,263.37	2,974.54	2,303.35	2,208.51	94.83	24.289	
11,400.00	7,618.00	7,284.00	7,192.55	68.30	30.65	32.42	1,263.37	2,974.54	2,401.43	2,306.60	94.83	25.324	
11,500.00	7,618.00	7,284.00	7,192.55	68.50	30.65	32.42	1,263.37	2,974.54	2,499.67	2,404.85	94.82	26.361	
11,600.00	7,618.00	7,284.00	7,192.55	68.75	30.65	32.42	1,263.37	2,974.54	2,598.04	2,503.23	94.82	27.401	
11,700.00	7,618.00	7,284.00	7,192.55	69.06	30.65	32.42	1,263.37	2,974.54	2,696.54	2,601.73	94.81	28.442	
11,800.00	7,618.00	7,284.00	7,192.55	69.44	30.65	32.42	1,263.37	2,974.54	2,795.14	2,700.34	94.80	29.486	
11,900.00	7,618.00	7,284.00	7,192.55	69.88	30.65	32.42	1,263.37	2,974.54	2,893.83	2,799.05	94.78	30.531	
12,000.00	7,618.00	7,284.00	7,192.55	70.39	30.65	32.42	1,263.37	2,974.54	2,992.61	2,897.84	94.77	31.578	
12,100.00	7,618.00	7,284.00	7,192.55	70.97	30.65	32.42	1,263.37	2,974.54	3,091.48	2,996.72	94.76	32.625	
12,200.00	7,618.00	7,284.00	7,192.55	71.63	30.65	32.42	1,263.37	2,974.54	3,190.41	3,095.66	94.74	33.674	
12,300.00	7,618.00	7,284.00	7,192.55	72.35	30.65	32.42	1,263.37	2,974.54	3,289.40	3,194.67	94.73	34.724	
12,400.00	7,618.00	7,284.00	7,192.55	73.15	30.65	32.42	1,263.37	2,974.54	3,388.46	3,293.74	94.72	35.774	
12,500.00	7,618.00	7,284.00	7,192.55	74.01	30.65	32.42	1,263.37	2,974.54	3,487.57	3,392.86	94.70	36.826	
12,600.00	7,618.00	7,284.00	7,192.55	74.93	30.65	32.42	1,263.37	2,974.54	3,586.73	3,492.03	94.69	37.877	
12,700.00	7,618.00	7,284.00	7,192.55	75.91	30.65	32.42	1,263.37	2,974.54	3,685.93	3,591.25	94.68	38.930	
12,800.00	7,618.00	7,284.00	7,192.55	76.95	30.65	32.42	1,263.37	2,974.54	3,785.18	3,690.51	94.67	39.983	
12,900.00	7,618.00	7,284.00	7,192.55	78.04	30.65	32.42	1,263.37	2,974.54	3,884.46	3,789.80	94.66	41.036	
13,000.00	7,618.00	7,284.00	7,192.55	79.16	30.65	32.42	1,263.37	2,974.54	3,983.78	3,889.13	94.65	42.089	
13,100.00	7,618.00	7,284.00	7,192.55	80.33	30.65	32.42	1,263.37	2,974.54	4,083.14	3,988.49	94.64	43.143	
13,200.00	7,618.00	7,284.00	7,192.55	81.54	30.65	32.42	1,263.37	2,974.54	4,182.52	4,087.89	94.63	44.197	
13,300.00	7,618.00	7,284.00	7,192.55	82.78	30.65	32.42	1,263.37	2,974.54	4,281.93	4,187.31	94.63	45.251	
13,400.00	7,618.00	7,284.00	7,192.55	84.05	30.65	32.42	1,263.37	2,974.54	4,381.37	4,286.75	94.62	46.305	
13,500.00	7,618.00	7,284.00	7,192.55	85.35	30.65	32.42	1,263.37	2,974.54	4,480.84	4,386.22	94.61	47.359	
13,600.00	7,618.00	7,284.00	7,192.55	86.67	30.65	32.42	1,263.37	2,974.54	4,580.33	4,485.72	94.61	48.413	
13,700.00	7,618.00	7,284.00	7,192.55	88.02	30.65	32.42	1,263.37	2,974.54	4,679.84	4,585.23	94.61	49.467	
13,800.00	7,618.00	7,284.00	7,192.55	89.38	30.65	32.42	1,263.37	2,974.54	4,779.37	4,684.76	94.60	50.521	
13,900.00	7,618.00	7,242.68	7,151.53	90.77	30.55	29.81	1,258.48	2,975.09	4,877.45	4,782.92	94.53	51.599	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,618.00	7,241.66	7,150.52	92.17	30.55	29.75	1,258.39	2,975.11	4,976.94	4,882.42	94.52	52.653	
14,100.00	7,618.00	7,240.68	7,149.54	93.59	30.55	29.69	1,258.31	2,975.12	5,076.46	4,981.94	94.52	53.706	
14,200.00	7,618.00	7,239.73	7,148.59	95.02	30.54	29.64	1,258.23	2,975.13	5,175.99	5,081.47	94.52	54.759	
14,300.00	7,618.00	7,238.81	7,147.68	96.47	30.54	29.58	1,258.15	2,975.14	5,275.54	5,181.02	94.52	55.812	
14,400.00	7,618.00	7,237.92	7,146.79	97.93	30.54	29.53	1,258.08	2,975.15	5,375.11	5,280.58	94.52	56.865	
14,500.00	7,618.00	7,237.06	7,145.94	99.41	30.54	29.48	1,258.01	2,975.16	5,474.69	5,380.16	94.53	57.917	
14,600.00	7,618.00	7,236.23	7,145.11	100.89	30.54	29.43	1,257.95	2,975.17	5,574.28	5,479.75	94.53	58.969	
14,700.00	7,618.00	7,235.43	7,144.30	102.38	30.53	29.39	1,257.88	2,975.18	5,673.89	5,579.35	94.53	60.020	
14,800.00	7,618.00	7,234.65	7,143.53	103.89	30.53	29.34	1,257.83	2,975.19	5,773.50	5,678.97	94.54	61.071	
14,900.00	7,618.00	7,233.89	7,142.77	105.40	30.53	29.30	1,257.77	2,975.20	5,873.13	5,778.59	94.54	62.122	
15,000.00	7,618.00	7,233.16	7,142.04	106.92	30.53	29.26	1,257.72	2,975.21	5,972.78	5,878.23	94.55	63.172	
15,100.00	7,618.00	7,232.44	7,141.33	108.45	30.53	29.22	1,257.66	2,975.22	6,072.43	5,977.88	94.55	64.222	
15,200.00	7,618.00	7,231.75	7,140.64	109.99	30.53	29.18	1,257.62	2,975.22	6,172.09	6,077.53	94.56	65.271	
15,300.00	7,618.00	7,189.00	7,097.93	111.54	30.42	26.92	1,255.98	2,975.68	6,273.25	6,178.74	94.51	66.376	
15,400.00	7,618.00	7,189.00	7,097.93	113.09	30.42	26.92	1,255.98	2,975.68	6,372.89	6,278.37	94.52	67.423	
15,500.00	7,618.00	7,189.00	7,097.93	114.65	30.42	26.92	1,255.98	2,975.68	6,472.53	6,378.00	94.53	68.470	
15,600.00	7,618.00	7,189.00	7,097.93	116.21	30.42	26.92	1,255.98	2,975.68	6,572.19	6,477.65	94.54	69.516	
15,700.00	7,618.00	7,189.00	7,097.93	117.78	30.42	26.92	1,255.98	2,975.68	6,671.86	6,577.30	94.55	70.561	
15,800.00	7,618.00	7,189.00	7,097.93	119.36	30.42	26.92	1,255.98	2,975.68	6,771.53	6,676.97	94.57	71.606	
15,900.00	7,618.00	7,189.00	7,097.93	120.94	30.42	26.92	1,255.98	2,975.68	6,871.22	6,776.64	94.58	72.650	
16,000.00	7,618.00	7,189.00	7,097.93	122.53	30.42	26.92	1,255.98	2,975.68	6,970.92	6,876.32	94.59	73.694	
16,100.00	7,618.00	7,189.00	7,097.93	124.12	30.42	26.92	1,255.98	2,975.68	7,070.62	6,976.02	94.61	74.737	
16,200.00	7,618.00	7,189.00	7,097.93	125.72	30.42	26.92	1,255.98	2,975.68	7,170.33	7,075.71	94.62	75.780	
16,300.00	7,618.00	7,189.00	7,097.93	127.32	30.42	26.92	1,255.98	2,975.68	7,270.05	7,175.42	94.64	76.822	
16,400.00	7,618.00	7,189.00	7,097.93	128.93	30.42	26.92	1,255.98	2,975.68	7,369.78	7,275.13	94.65	77.863	
16,500.00	7,618.00	7,189.00	7,097.93	130.54	30.42	26.92	1,255.98	2,975.68	7,469.52	7,374.85	94.67	78.904	
16,600.00	7,618.00	7,189.00	7,097.93	132.15	30.42	26.92	1,255.98	2,975.68	7,569.26	7,474.58	94.68	79.943	
16,700.00	7,618.00	7,189.00	7,097.93	133.77	30.42	26.92	1,255.98	2,975.68	7,669.01	7,574.31	94.70	80.982	
16,800.00	7,618.00	7,189.00	7,097.93	135.39	30.42	26.92	1,255.98	2,975.68	7,768.76	7,674.05	94.72	82.021	
16,900.00	7,618.00	7,189.00	7,097.93	137.01	30.42	26.92	1,255.98	2,975.68	7,868.53	7,773.79	94.74	83.058	
17,000.00	7,618.00	7,189.00	7,097.93	138.64	30.42	26.92	1,255.98	2,975.68	7,968.29	7,873.54	94.75	84.095	
17,100.00	7,618.00	7,189.00	7,097.93	140.27	30.42	26.92	1,255.98	2,975.68	8,068.07	7,973.29	94.77	85.131	
17,200.00	7,618.00	7,189.00	7,097.93	141.91	30.42	26.92	1,255.98	2,975.68	8,167.85	8,073.05	94.79	86.166	
17,300.00	7,618.00	7,189.00	7,097.93	143.55	30.42	26.92	1,255.98	2,975.68	8,267.63	8,172.82	94.81	87.200	
17,400.00	7,618.00	7,189.00	7,097.93	145.19	30.42	26.92	1,255.98	2,975.68	8,367.42	8,272.59	94.83	88.234	
17,500.00	7,618.00	7,189.00	7,097.93	146.83	30.42	26.92	1,255.98	2,975.68	8,467.21	8,372.36	94.85	89.267	
17,600.00	7,618.00	7,189.00	7,097.93	148.48	30.42	26.92	1,255.98	2,975.68	8,567.01	8,472.14	94.87	90.298	
17,700.00	7,618.00	7,189.00	7,097.93	150.13	30.42	26.92	1,255.98	2,975.68	8,666.82	8,571.92	94.90	91.329	
17,800.00	7,618.00	7,189.00	7,097.93	151.78	30.42	26.92	1,255.98	2,975.68	8,766.62	8,671.71	94.92	92.359	
17,900.00	7,618.00	7,189.00	7,097.93	153.43	30.42	26.92	1,255.98	2,975.68	8,866.44	8,771.50	94.94	93.388	
18,000.00	7,618.00	7,189.00	7,097.93	155.09	30.42	26.92	1,255.98	2,975.68	8,966.25	8,871.29	94.96	94.417	
18,100.00	7,618.00	7,189.00	7,097.93	156.75	30.42	26.92	1,255.98	2,975.68	9,066.07	8,971.09	94.99	95.444	
18,200.00	7,618.00	7,189.00	7,097.93	158.41	30.42	26.92	1,255.98	2,975.68	9,165.90	9,070.89	95.01	96.470	
18,300.00	7,618.00	7,189.00	7,097.93	160.07	30.42	26.92	1,255.98	2,975.68	9,265.73	9,170.69	95.04	97.496	
18,400.00	7,618.00	7,189.00	7,097.93	161.74	30.42	26.92	1,255.98	2,975.68	9,365.56	9,270.50	95.06	98.520	
18,500.00	7,618.00	7,189.00	7,097.93	163.41	30.42	26.92	1,255.98	2,975.68	9,465.40	9,370.31	95.09	99.543	
18,600.00	7,618.00	7,189.00	7,097.93	165.08	30.42	26.92	1,255.98	2,975.68	9,565.23	9,470.12	95.11	100.566	
18,700.00	7,618.00	7,189.00	7,097.93	166.75	30.42	26.92	1,255.98	2,975.68	9,665.08	9,569.94	95.14	101.587	
18,711.30	7,618.00	7,189.00	7,097.93	166.94	30.42	26.92	1,255.98	2,975.68	9,676.36	9,581.22	95.14	101.702	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	175.07	-4,018.46	346.42	4,033.40				
100.00	100.00	52.56	52.56	0.13	0.09	175.07	-4,018.65	346.66	4,033.69	4,033.47	0.22	N/A	
200.00	200.00	120.00	119.99	0.49	0.20	175.06	-4,019.43	347.66	4,034.94	4,034.26	0.69	5,873.950	
300.00	300.00	291.88	291.84	0.85	0.81	175.02	-4,020.79	350.49	4,036.05	4,034.39	1.66	2,432.453	
400.00	400.00	409.38	409.33	1.21	1.22	175.00	-4,020.11	351.52	4,035.53	4,033.09	2.43	1,658.672	
500.00	500.00	510.72	510.64	1.57	1.59	174.97	-4,019.33	353.74	4,034.95	4,031.80	3.15	1,279.324	
600.00	600.00	792.66	791.14	1.93	2.65	174.61	-4,009.42	378.58	4,032.58	4,028.01	4.57	882.340	
700.00	700.00	981.54	977.04	2.29	3.44	174.16	-3,994.81	408.49	4,026.32	4,020.61	5.71	704.778	
800.00	800.00	1,080.00	1,073.33	2.64	3.88	173.89	-3,985.65	426.91	4,018.88	4,012.37	6.51	617.387	
900.00	900.00	1,158.44	1,149.91	3.00	4.25	173.66	-3,978.67	442.39	4,012.01	4,004.78	7.23	554.853	
1,000.00	999.98	1,298.88	1,287.35	3.36	4.91	116.22	-3,965.79	468.19	4,005.60	3,997.37	8.23	486.544	
1,100.00	1,099.84	1,371.00	1,358.02	3.71	5.25	116.16	-3,959.16	480.98	4,000.73	3,991.80	8.92	448.484	
1,200.00	1,199.45	1,499.03	1,483.13	4.07	5.87	116.00	-3,947.22	505.40	3,997.48	3,987.59	9.89	404.219	
1,300.00	1,298.70	1,628.74	1,609.40	4.44	6.53	115.85	-3,933.75	531.82	3,994.83	3,983.93	10.90	366.615	
1,400.00	1,397.47	1,750.68	1,727.84	4.82	7.16	115.73	-3,920.33	557.49	3,993.21	3,981.32	11.89	335.846	
1,465.75	1,462.07	1,810.17	1,785.78	5.09	7.46	115.70	-3,913.74	569.25	3,992.84	3,980.39	12.45	320.805	
1,500.00	1,495.62	1,841.56	1,816.40	5.22	7.62	115.69	-3,910.31	575.30	3,992.94	3,980.20	12.74	313.448	
1,600.00	1,593.06	1,920.38	1,893.25	5.65	8.02	115.65	-3,901.92	590.65	3,994.55	3,981.00	13.55	294.765	
1,700.00	1,689.64	2,018.14	1,988.54	6.11	8.52	115.63	-3,891.83	609.98	3,998.02	3,983.53	14.48	276.022	
1,800.00	1,785.27	2,121.51	2,089.22	6.61	9.05	115.62	-3,881.04	630.80	4,002.93	3,987.44	15.48	258.546	
1,900.00	1,879.82	2,223.61	2,188.31	7.15	9.59	115.60	-3,870.13	652.86	4,009.28	3,992.75	16.53	242.610	
2,000.00	1,973.17	2,336.28	2,297.59	7.73	10.20	115.62	-3,857.92	677.39	4,017.02	3,999.35	17.67	227.387	
2,100.00	2,065.21	2,462.63	2,420.21	8.37	10.87	115.71	-3,843.44	704.25	4,025.59	4,006.67	18.91	212.835	
2,200.00	2,155.84	2,543.93	2,499.12	9.07	11.31	115.72	-3,834.00	721.37	4,035.61	4,015.63	19.98	201.980	
2,300.00	2,244.94	2,718.97	2,668.70	9.82	12.26	115.99	-3,813.22	759.40	4,047.32	4,025.75	21.58	187.574	
2,400.00	2,332.39	2,787.00	2,734.74	10.64	12.63	116.00	-3,804.34	773.13	4,059.14	4,036.47	22.67	179.086	
2,500.00	2,418.11	2,840.94	2,787.14	11.53	12.91	115.94	-3,797.76	784.07	4,073.49	4,049.76	23.73	171.651	
2,558.91	2,467.74	2,881.00	2,826.09	12.08	13.12	115.93	-3,793.42	792.39	4,083.39	4,058.97	24.42	167.201	
2,600.00	2,502.13	2,890.22	2,835.05	12.47	13.17	115.96	-3,792.48	794.33	4,090.66	4,065.84	24.82	164.845	
2,700.00	2,585.83	3,021.92	2,962.90	13.45	13.88	116.50	-3,777.96	822.41	4,108.03	4,081.68	26.36	155.873	
2,800.00	2,669.53	3,092.62	3,031.40	14.44	14.27	116.78	-3,770.05	837.99	4,125.59	4,098.00	27.59	149.518	
2,900.00	2,753.22	3,142.08	3,079.36	15.46	14.54	116.97	-3,765.00	849.01	4,144.23	4,115.51	28.72	144.278	
3,000.00	2,836.92	3,299.47	3,231.75	16.48	15.41	117.57	-3,748.67	884.81	4,162.97	4,132.52	30.45	136.695	
3,100.00	2,920.62	3,389.63	3,319.01	17.52	15.91	117.91	-3,738.62	905.14	4,181.09	4,149.26	31.82	131.390	
3,200.00	3,004.32	3,489.15	3,415.36	18.56	16.46	118.29	-3,727.60	927.47	4,199.44	4,166.20	33.24	126.338	
3,300.00	3,088.01	3,581.63	3,504.94	19.61	16.97	118.63	-3,717.14	947.92	4,217.72	4,183.11	34.62	121.842	
3,400.00	3,171.71	3,655.54	3,576.63	20.67	17.37	118.91	-3,709.12	964.03	4,236.59	4,200.71	35.89	118.051	
3,500.00	3,255.41	3,733.00	3,651.83	21.73	17.79	119.21	-3,700.93	980.71	4,255.93	4,218.76	37.17	114.490	
3,600.00	3,339.10	3,806.15	3,722.94	22.80	18.18	119.49	-3,693.53	996.13	4,275.86	4,237.44	38.43	111.277	
3,700.00	3,422.80	3,875.14	3,790.19	23.87	18.54	119.76	-3,687.01	1,010.11	4,296.58	4,256.94	39.64	108.388	
3,800.00	3,506.50	3,944.61	3,858.13	24.94	18.89	120.05	-3,680.82	1,023.21	4,317.99	4,277.15	40.84	105.726	
3,900.00	3,590.20	4,016.00	3,928.22	26.02	19.24	120.35	-3,674.88	1,035.43	4,340.15	4,298.12	42.03	103.263	
4,000.00	3,673.89	4,062.02	3,973.53	27.10	19.44	120.56	-3,671.40	1,042.61	4,363.23	4,320.16	43.07	101.314	
4,100.00	3,757.59	4,111.00	4,021.90	28.18	19.66	120.78	-3,668.15	1,049.68	4,387.46	4,343.35	44.10	99.478	
4,200.00	3,841.29	4,167.24	4,077.57	29.26	19.90	121.05	-3,664.90	1,056.90	4,412.74	4,367.59	45.15	97.741	
4,300.00	3,924.99	4,236.74	4,146.58	30.35	20.17	121.40	-3,661.35	1,064.32	4,438.93	4,392.70	46.23	96.025	
4,400.00	4,008.68	4,316.44	4,225.91	31.44	20.47	121.82	-3,657.26	1,070.83	4,465.53	4,418.21	47.32	94.375	
4,500.00	4,092.38	4,366.41	4,275.73	32.52	20.64	122.09	-3,654.98	1,073.96	4,493.03	4,444.77	48.26	93.104	
4,600.00	4,176.08	4,394.00	4,303.26	33.62	20.73	122.24	-3,653.89	1,075.39	4,521.71	4,472.61	49.09	92.103	
4,700.00	4,259.77	4,447.93	4,357.12	34.71	20.90	122.55	-3,652.27	1,077.64	4,551.51	4,501.50	50.01	91.017	
4,800.00	4,343.47	4,488.00	4,397.16	35.80	21.02	122.78	-3,651.58	1,078.85	4,582.68	4,531.83	50.85	90.117	
4,900.00	4,427.17	4,554.95	4,464.10	36.89	21.22	123.17	-3,650.86	1,080.35	4,614.84	4,563.06	51.78	89.124	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,510.87	4,642.14	4,551.26	37.99	21.47	123.67	-3,650.02	1,081.91	4,647.52	4,594.74	52.78	88.062	
5,100.00	4,594.56	4,728.81	4,637.91	39.08	21.72	124.16	-3,649.08	1,083.64	4,680.45	4,626.69	53.76	87.054	
5,200.00	4,678.26	4,813.23	4,722.31	40.18	21.97	124.64	-3,648.22	1,085.53	4,713.78	4,659.03	54.74	86.109	
5,300.00	4,761.96	4,904.86	4,813.90	41.28	22.24	125.14	-3,647.26	1,087.86	4,747.40	4,691.66	55.75	85.162	
5,400.00	4,845.66	4,995.19	4,904.20	42.37	22.51	125.63	-3,646.16	1,090.26	4,781.21	4,724.47	56.74	84.265	
5,500.00	4,929.35	5,081.26	4,990.23	43.47	22.78	126.09	-3,645.11	1,092.45	4,815.36	4,757.65	57.71	83.440	
5,600.00	5,013.05	5,176.92	5,085.86	44.57	23.06	126.60	-3,643.73	1,094.55	4,849.68	4,790.97	58.71	82.605	
5,700.00	5,096.75	5,261.36	5,170.27	45.67	23.32	127.05	-3,642.32	1,095.75	4,884.24	4,824.59	59.65	81.884	
5,800.00	5,180.45	5,333.09	5,241.99	46.77	23.53	127.44	-3,641.17	1,096.30	4,919.27	4,858.75	60.52	81.281	
5,900.00	5,264.14	5,393.60	5,302.50	47.87	23.70	127.77	-3,640.36	1,096.40	4,954.94	4,893.60	61.33	80.787	
6,000.00	5,347.84	5,453.90	5,362.79	48.97	23.86	128.09	-3,639.79	1,096.13	4,991.35	4,929.22	62.13	80.338	
6,100.00	5,431.54	5,515.92	5,424.81	50.07	24.03	128.43	-3,639.46	1,095.69	5,028.46	4,965.54	62.92	79.921	
6,200.00	5,515.23	5,598.94	5,507.83	51.17	24.25	128.87	-3,639.21	1,095.01	5,066.12	5,002.34	63.78	79.433	
6,300.00	5,598.93	5,682.27	5,591.16	52.27	24.47	129.31	-3,638.91	1,094.28	5,104.05	5,039.42	64.63	78.969	
6,400.00	5,682.63	5,770.34	5,679.22	53.38	24.70	129.77	-3,638.54	1,093.26	5,142.29	5,076.79	65.50	78.507	
6,500.00	5,766.33	5,852.54	5,761.41	54.48	24.92	130.20	-3,638.08	1,092.21	5,180.76	5,114.42	66.34	78.095	
6,600.00	5,850.02	5,932.81	5,841.67	55.58	25.14	130.61	-3,637.71	1,091.03	5,219.63	5,152.46	67.16	77.716	
6,700.00	5,933.72	6,036.00	5,944.85	56.68	25.42	131.13	-3,637.07	1,089.57	5,258.68	5,190.60	68.08	77.246	
6,800.00	6,017.42	6,139.61	6,048.45	57.79	25.72	131.65	-3,636.02	1,088.65	5,297.58	5,228.57	69.00	76.776	
6,900.00	6,101.12	6,235.25	6,144.09	58.89	25.99	132.11	-3,635.00	1,088.32	5,336.62	5,266.73	69.90	76.350	
7,000.00	6,184.81	6,341.99	6,250.81	59.99	26.31	132.62	-3,633.48	1,088.08	5,375.61	5,304.77	70.84	75.885	
7,100.00	6,268.51	6,430.57	6,339.38	61.10	26.57	133.04	-3,631.86	1,087.54	5,414.62	5,342.92	71.69	75.524	
7,200.00	6,352.21	6,510.85	6,419.63	62.20	26.81	133.42	-3,630.32	1,086.65	5,453.92	5,381.42	72.50	75.223	
7,300.00	6,435.90	6,594.98	6,503.75	63.31	27.06	133.81	-3,628.72	1,085.62	5,493.53	5,420.21	73.32	74.923	
7,400.00	6,519.60	6,662.00	6,570.75	64.41	27.25	134.12	-3,627.44	1,084.98	5,533.36	5,459.30	74.07	74.709	
7,500.00	6,603.30	6,716.16	6,624.91	65.51	27.41	134.37	-3,626.65	1,084.51	5,573.82	5,499.08	74.75	74.571	
7,600.00	6,687.00	6,761.59	6,670.33	66.62	27.54	134.57	-3,626.38	1,084.06	5,615.16	5,539.78	75.38	74.494	
7,700.00	6,770.69	6,861.30	6,770.03	67.72	27.83	135.02	-3,625.93	1,083.02	5,656.87	5,580.63	76.25	74.193	
7,800.00	6,854.39	6,943.73	6,852.46	68.83	28.07	135.38	-3,625.52	1,082.38	5,698.72	5,621.68	77.04	73.973	
7,900.00	6,938.09	7,054.88	6,963.60	69.93	28.41	135.85	-3,624.87	1,082.10	5,740.58	5,662.61	77.97	73.624	
7,933.18	6,965.86	7,069.78	6,978.50	70.30	28.45	135.92	-3,624.79	1,082.09	5,754.50	5,676.32	78.18	73.606	
7,950.00	6,980.00	7,080.75	6,989.47	70.49	28.49	133.42	-3,624.74	1,082.09	5,761.36	5,683.06	78.30	73.579	
8,000.00	7,022.68	7,113.83	7,022.56	71.01	28.59	125.43	-3,624.62	1,082.09	5,779.27	5,700.59	78.67	73.461	
8,050.00	7,066.06	7,159.27	7,068.00	71.51	28.73	116.77	-3,624.51	1,082.11	5,793.33	5,714.22	79.11	73.232	
8,100.00	7,109.82	7,223.03	7,131.75	71.97	28.93	107.77	-3,624.20	1,082.14	5,803.31	5,723.67	79.64	72.868	
8,150.00	7,153.63	7,266.39	7,175.11	72.38	29.06	98.74	-3,623.90	1,082.16	5,809.18	5,729.10	80.07	72.548	
8,200.00	7,197.14	7,307.68	7,216.40	72.74	29.19	90.26	-3,623.61	1,082.13	5,810.99	5,730.49	80.49	72.194	
8,250.00	7,240.04	7,355.27	7,263.99	73.05	29.34	82.75	-3,623.28	1,082.08	5,808.73	5,727.80	80.93	71.773	
8,300.00	7,281.99	7,405.96	7,314.68	73.31	29.50	76.39	-3,622.89	1,082.14	5,802.38	5,721.00	81.38	71.302	
8,350.00	7,322.67	7,444.66	7,353.38	73.52	29.62	71.13	-3,622.58	1,082.23	5,792.02	5,710.27	81.75	70.848	
8,400.00	7,361.77	7,478.89	7,387.61	73.68	29.72	66.95	-3,622.31	1,082.28	5,777.80	5,695.71	82.09	70.381	
8,450.00	7,399.01	7,511.56	7,420.28	73.78	29.83	63.77	-3,622.08	1,082.29	5,759.85	5,677.44	82.41	69.891	
8,500.00	7,434.08	7,551.84	7,460.55	73.85	29.95	61.54	-3,621.79	1,082.31	5,738.26	5,655.50	82.75	69.341	
8,550.00	7,466.74	7,589.33	7,498.04	73.87	30.07	60.14	-3,621.51	1,082.41	5,713.17	5,630.10	83.07	68.775	
8,600.00	7,496.72	7,625.52	7,534.24	73.85	30.19	59.54	-3,621.23	1,082.55	5,684.78	5,601.41	83.37	68.188	
8,650.00	7,523.80	7,659.60	7,568.31	73.79	30.30	59.70	-3,620.92	1,082.70	5,653.30	5,569.65	83.65	67.587	
8,700.00	7,547.77	7,689.58	7,598.29	73.70	30.39	60.66	-3,620.61	1,082.85	5,618.97	5,535.08	83.89	66.980	
8,750.00	7,568.45	7,715.25	7,623.96	73.58	30.47	62.48	-3,620.33	1,082.98	5,582.06	5,497.95	84.11	66.370	
8,800.00	7,585.69	7,722.58	7,631.29	73.43	30.50	65.08	-3,620.27	1,083.03	5,542.87	5,458.65	84.22	65.814	
8,850.00	7,599.35	7,733.15	7,641.86	73.26	30.53	68.91	-3,620.17	1,083.08	5,501.68	5,417.34	84.35	65.228	
8,900.00	7,609.33	7,740.80	7,649.51	73.07	30.56	74.16	-3,620.10	1,083.13	5,458.78	5,374.33	84.45	64.638	
8,950.00	7,615.55	7,745.46	7,654.17	72.87	30.57	81.13	-3,620.06	1,083.16	5,414.48	5,329.94	84.54	64.046	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	7,747.07	7,655.78	72.65	30.58	90.11	-3,620.05	1,083.17	5,369.09	5,284.47	84.61	63.454	
9,006.60	7,618.00	7,747.05	7,655.76	72.62	30.58	91.45	-3,620.05	1,083.17	5,363.03	5,278.40	84.62	63.375	
9,100.00	7,618.00	7,746.42	7,655.13	72.22	30.57	91.44	-3,620.05	1,083.16	5,277.37	5,192.63	84.75	62.273	
9,200.00	7,618.00	7,745.74	7,654.44	71.80	30.57	91.42	-3,620.06	1,083.16	5,185.96	5,101.08	84.89	61.094	
9,300.00	7,618.00	7,745.05	7,653.76	71.41	30.57	91.40	-3,620.06	1,083.15	5,094.87	5,009.84	85.03	59.916	
9,400.00	7,618.00	7,744.36	7,653.06	71.04	30.57	91.38	-3,620.07	1,083.15	5,004.12	4,918.93	85.19	58.740	
9,500.00	7,618.00	7,743.66	7,652.36	70.68	30.56	91.36	-3,620.07	1,083.15	4,913.73	4,828.37	85.36	57.566	
9,600.00	7,618.00	7,742.95	7,651.65	70.35	30.56	91.34	-3,620.08	1,083.14	4,823.72	4,738.18	85.54	56.393	
9,700.00	7,618.00	7,742.23	7,650.94	70.04	30.56	91.32	-3,620.09	1,083.14	4,734.11	4,648.38	85.73	55.223	
9,800.00	7,618.00	7,741.51	7,650.22	69.75	30.56	91.30	-3,620.09	1,083.13	4,644.92	4,558.99	85.93	54.055	
9,900.00	7,618.00	7,740.79	7,649.49	69.47	30.56	91.28	-3,620.10	1,083.13	4,556.18	4,470.03	86.15	52.889	
10,000.00	7,618.00	7,740.05	7,648.76	69.22	30.55	91.26	-3,620.11	1,083.12	4,467.92	4,381.54	86.37	51.727	
10,100.00	7,618.00	7,739.31	7,648.02	68.99	30.55	91.24	-3,620.11	1,083.12	4,380.16	4,293.54	86.62	50.568	
10,200.00	7,618.00	7,738.56	7,647.27	68.78	30.55	91.22	-3,620.12	1,083.12	4,292.93	4,206.06	86.88	49.413	
10,300.00	7,618.00	7,737.81	7,646.52	68.59	30.55	91.20	-3,620.13	1,083.11	4,206.28	4,119.13	87.15	48.263	
10,400.00	7,618.00	7,737.05	7,645.75	68.42	30.54	91.18	-3,620.13	1,083.11	4,120.23	4,032.78	87.45	47.116	
10,500.00	7,618.00	7,736.28	7,644.98	68.28	30.54	91.16	-3,620.14	1,083.10	4,034.82	3,947.06	87.76	45.976	
10,600.00	7,618.00	7,735.50	7,644.21	68.16	30.54	91.14	-3,620.15	1,083.10	3,950.10	3,862.01	88.09	44.841	
10,700.00	7,618.00	7,734.72	7,643.42	68.06	30.54	91.12	-3,620.15	1,083.09	3,866.11	3,777.66	88.45	43.712	
10,800.00	7,618.00	7,733.93	7,642.63	67.99	30.53	91.10	-3,620.16	1,083.09	3,782.89	3,694.07	88.82	42.590	
10,900.00	7,618.00	7,733.13	7,641.83	67.95	30.53	91.08	-3,620.17	1,083.08	3,700.51	3,611.29	89.22	41.477	
11,000.00	7,618.00	7,732.32	7,641.02	67.95	30.53	91.05	-3,620.17	1,083.08	3,619.02	3,529.37	89.64	40.371	
11,100.00	7,618.00	7,731.50	7,640.21	67.97	30.53	91.03	-3,620.18	1,083.08	3,538.47	3,448.38	90.09	39.276	
11,200.00	7,618.00	7,730.68	7,639.39	68.04	30.52	91.01	-3,620.19	1,083.07	3,458.94	3,368.37	90.57	38.191	
11,300.00	7,618.00	7,729.85	7,638.55	68.15	30.52	90.99	-3,620.20	1,083.07	3,380.49	3,289.42	91.08	37.117	
11,400.00	7,618.00	7,729.01	7,637.71	68.30	30.52	90.96	-3,620.21	1,083.06	3,303.21	3,211.60	91.61	36.057	
11,500.00	7,618.00	7,728.16	7,636.87	68.50	30.51	90.94	-3,620.21	1,083.06	3,227.18	3,135.00	92.18	35.010	
11,600.00	7,618.00	7,727.30	7,636.01	68.75	30.51	90.92	-3,620.22	1,083.05	3,152.49	3,059.71	92.78	33.979	
11,700.00	7,618.00	7,726.44	7,635.14	69.06	30.51	90.90	-3,620.23	1,083.05	3,079.23	2,985.82	93.41	32.964	
11,800.00	7,618.00	7,725.56	7,634.27	69.44	30.51	90.87	-3,620.24	1,083.04	3,007.52	2,913.44	94.08	31.968	
11,900.00	7,618.00	7,724.68	7,633.39	69.88	30.50	90.85	-3,620.25	1,083.04	2,937.45	2,842.67	94.78	30.992	
12,000.00	7,618.00	7,723.79	7,632.49	70.39	30.50	90.82	-3,620.25	1,083.03	2,869.17	2,773.65	95.52	30.038	
12,100.00	7,618.00	7,722.88	7,631.59	70.97	30.50	90.80	-3,620.26	1,083.03	2,802.78	2,706.49	96.29	29.108	
12,200.00	7,618.00	7,721.97	7,630.68	71.63	30.50	90.77	-3,620.27	1,083.02	2,738.44	2,641.35	97.10	28.203	
12,300.00	7,618.00	7,721.05	7,629.76	72.35	30.49	90.75	-3,620.28	1,083.02	2,676.29	2,578.36	97.93	27.327	
12,400.00	7,618.00	7,720.12	7,628.83	73.15	30.49	90.72	-3,620.29	1,083.01	2,616.49	2,517.68	98.80	26.482	
12,500.00	7,618.00	7,719.18	7,627.89	74.01	30.49	90.70	-3,620.30	1,083.01	2,559.19	2,459.49	99.70	25.669	
12,600.00	7,618.00	7,718.23	7,626.94	74.93	30.48	90.67	-3,620.31	1,083.00	2,504.58	2,403.96	100.62	24.891	
12,700.00	7,618.00	7,717.27	7,625.98	75.91	30.48	90.65	-3,620.32	1,083.00	2,452.84	2,351.27	101.56	24.151	
12,800.00	7,618.00	7,716.30	7,625.01	76.95	30.48	90.62	-3,620.33	1,082.99	2,404.13	2,301.62	102.52	23.452	
12,900.00	7,618.00	7,715.32	7,624.03	78.04	30.47	90.60	-3,620.34	1,082.98	2,358.67	2,255.19	103.48	22.795	
13,000.00	7,618.00	7,714.33	7,623.04	79.16	30.47	90.57	-3,620.35	1,082.98	2,316.63	2,212.20	104.43	22.183	
13,100.00	7,618.00	7,713.33	7,622.03	80.33	30.47	90.54	-3,620.36	1,082.97	2,278.21	2,172.83	105.38	21.619	
13,200.00	7,618.00	7,712.31	7,621.02	81.54	30.46	90.51	-3,620.37	1,082.97	2,243.59	2,137.28	106.31	21.105	
13,300.00	7,618.00	7,711.29	7,619.99	82.78	30.46	90.49	-3,620.38	1,082.96	2,212.95	2,105.75	107.20	20.643	
13,400.00	7,618.00	7,710.80	7,619.51	84.05	30.46	90.47	-3,620.38	1,082.96	2,186.46	2,078.40	108.06	20.234	
13,500.00	7,618.00	7,709.61	7,618.31	85.35	30.46	90.44	-3,620.39	1,082.95	2,164.26	2,055.41	108.85	19.883	
13,600.00	7,618.00	7,708.42	7,617.13	86.67	30.45	90.41	-3,620.41	1,082.95	2,146.51	2,036.93	109.58	19.589	
13,700.00	7,618.00	7,707.24	7,615.94	88.02	30.45	90.38	-3,620.42	1,082.94	2,133.29	2,023.06	110.23	19.353	
13,800.00	7,618.00	7,706.06	7,614.77	89.38	30.44	90.35	-3,620.43	1,082.93	2,124.70	2,013.91	110.79	19.177	
13,900.00	7,618.00	7,704.90	7,613.61	90.77	30.44	90.31	-3,620.45	1,082.93	2,120.80	2,009.54	111.26	19.061	
13,932.82	7,618.00	7,704.53	7,613.24	91.23	30.44	90.30	-3,620.45	1,082.93	2,120.55	2,009.15	111.40	19.036	CC, ES

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,618.00	7,703.78	7,612.49	92.17	30.44	90.28	-3,620.46	1,082.92	2,121.61	2,009.98	111.63	19.005 SF	
14,100.00	7,618.00	7,702.66	7,611.37	93.59	30.43	90.25	-3,620.47	1,082.92	2,127.13	2,015.23	111.90	19.009	
14,200.00	7,618.00	7,701.53	7,610.24	95.02	30.43	90.22	-3,620.48	1,082.91	2,137.31	2,025.25	112.06	19.073	
14,300.00	7,618.00	7,700.38	7,609.09	96.47	30.43	90.19	-3,620.50	1,082.90	2,152.10	2,039.98	112.12	19.195	
14,400.00	7,618.00	7,699.22	7,607.93	97.93	30.42	90.16	-3,620.51	1,082.90	2,171.40	2,059.32	112.08	19.374	
14,500.00	7,618.00	7,698.09	7,606.80	99.41	30.42	90.13	-3,620.52	1,082.89	2,195.08	2,083.15	111.94	19.610	
14,600.00	7,618.00	7,696.99	7,605.70	100.89	30.42	90.10	-3,620.53	1,082.89	2,223.02	2,111.31	111.71	19.900	
14,700.00	7,618.00	7,695.89	7,604.60	102.38	30.41	90.07	-3,620.55	1,082.88	2,255.05	2,143.65	111.40	20.243	
14,800.00	7,618.00	7,694.80	7,603.51	103.89	30.41	90.04	-3,620.56	1,082.88	2,290.99	2,179.97	111.02	20.636	
14,900.00	7,618.00	7,693.72	7,602.42	105.40	30.40	90.01	-3,620.57	1,082.87	2,330.68	2,220.10	110.58	21.078	
15,000.00	7,618.00	7,692.64	7,601.35	106.92	30.40	89.98	-3,620.58	1,082.86	2,373.92	2,263.83	110.08	21.565	
15,100.00	7,618.00	7,691.57	7,600.28	108.45	30.40	89.95	-3,620.59	1,082.86	2,420.51	2,310.97	109.54	22.096	
15,200.00	7,618.00	7,690.51	7,599.22	109.99	30.39	89.92	-3,620.60	1,082.85	2,470.28	2,361.31	108.97	22.669	
15,300.00	7,618.00	7,689.46	7,598.17	111.54	30.39	89.90	-3,620.61	1,082.85	2,523.03	2,414.66	108.37	23.281	
15,400.00	7,618.00	7,688.41	7,597.12	113.09	30.39	89.87	-3,620.63	1,082.84	2,578.58	2,470.83	107.76	23.930	
15,500.00	7,618.00	7,687.37	7,596.08	114.65	30.38	89.84	-3,620.64	1,082.84	2,636.76	2,529.63	107.13	24.613	
15,600.00	7,618.00	7,686.34	7,595.05	116.21	30.38	89.81	-3,620.65	1,082.83	2,697.39	2,590.89	106.50	25.328	
15,700.00	7,618.00	7,685.32	7,594.03	117.78	30.38	89.78	-3,620.66	1,082.83	2,760.31	2,654.44	105.86	26.074	
15,800.00	7,618.00	7,684.30	7,593.01	119.36	30.37	89.76	-3,620.67	1,082.82	2,825.37	2,720.13	105.23	26.849	
15,900.00	7,618.00	7,683.29	7,592.00	120.94	30.37	89.73	-3,620.68	1,082.82	2,892.42	2,787.81	104.61	27.649	
16,000.00	7,618.00	7,682.28	7,590.99	122.53	30.37	89.70	-3,620.69	1,082.81	2,961.33	2,857.33	104.00	28.474	
16,100.00	7,618.00	7,681.29	7,590.00	124.12	30.36	89.68	-3,620.70	1,082.81	3,031.97	2,928.57	103.40	29.322	
16,200.00	7,618.00	7,680.30	7,589.01	125.72	30.36	89.65	-3,620.71	1,082.80	3,104.23	3,001.41	102.82	30.191	
16,300.00	7,618.00	7,679.31	7,588.02	127.32	30.36	89.62	-3,620.72	1,082.80	3,177.99	3,075.74	102.25	31.079	
16,400.00	7,618.00	7,678.34	7,587.05	128.93	30.36	89.60	-3,620.73	1,082.79	3,253.15	3,151.45	101.70	31.986	
16,500.00	7,618.00	7,677.37	7,586.08	130.54	30.35	89.57	-3,620.74	1,082.79	3,329.62	3,228.45	101.17	32.910	
16,600.00	7,618.00	7,676.40	7,585.11	132.15	30.35	89.54	-3,620.75	1,082.78	3,407.31	3,306.65	100.66	33.849	
16,700.00	7,618.00	7,675.44	7,584.15	133.77	30.35	89.52	-3,620.76	1,082.78	3,486.14	3,385.97	100.17	34.802	
16,800.00	7,618.00	7,674.49	7,583.20	135.39	30.34	89.49	-3,620.77	1,082.77	3,566.02	3,466.33	99.70	35.769	
16,900.00	7,618.00	7,673.55	7,582.26	137.01	30.34	89.47	-3,620.78	1,082.77	3,646.90	3,547.66	99.24	36.748	
17,000.00	7,618.00	7,672.61	7,581.32	138.64	30.34	89.44	-3,620.79	1,082.76	3,728.71	3,629.90	98.80	37.739	
17,100.00	7,618.00	7,671.67	7,580.38	140.27	30.33	89.42	-3,620.80	1,082.76	3,811.38	3,713.00	98.38	38.740	
17,200.00	7,618.00	7,670.75	7,579.46	141.91	30.33	89.39	-3,620.81	1,082.75	3,894.87	3,796.88	97.98	39.750	
17,300.00	7,618.00	7,669.83	7,578.54	143.55	30.33	89.37	-3,620.82	1,082.75	3,979.11	3,881.51	97.60	40.769	
17,400.00	7,618.00	7,668.91	7,577.62	145.19	30.33	89.34	-3,620.83	1,082.74	4,064.08	3,966.84	97.23	41.797	
17,500.00	7,618.00	7,668.00	7,576.71	146.83	30.32	89.32	-3,620.84	1,082.74	4,149.71	4,052.83	96.88	42.832	
17,600.00	7,618.00	7,667.10	7,575.81	148.48	30.32	89.29	-3,620.85	1,082.74	4,235.97	4,139.42	96.55	43.874	
17,700.00	7,618.00	7,666.20	7,574.91	150.13	30.32	89.27	-3,620.85	1,082.73	4,322.82	4,226.59	96.23	44.923	
17,800.00	7,618.00	7,665.31	7,574.02	151.78	30.31	89.24	-3,620.86	1,082.73	4,410.23	4,314.31	95.92	45.977	
17,900.00	7,618.00	7,664.42	7,573.13	153.43	30.31	89.22	-3,620.87	1,082.72	4,498.17	4,402.53	95.63	47.036	
18,000.00	7,618.00	7,663.54	7,572.25	155.09	30.31	89.20	-3,620.88	1,082.72	4,586.59	4,491.24	95.35	48.101	
18,100.00	7,618.00	7,662.67	7,571.38	156.75	30.31	89.17	-3,620.89	1,082.71	4,675.49	4,580.40	95.09	49.170	
18,200.00	7,618.00	7,661.80	7,570.51	158.41	30.30	89.15	-3,620.90	1,082.71	4,764.82	4,669.99	94.84	50.243	
18,300.00	7,618.00	7,660.93	7,569.64	160.07	30.30	89.13	-3,620.91	1,082.71	4,854.57	4,759.98	94.59	51.320	
18,400.00	7,618.00	7,660.07	7,568.78	161.74	30.30	89.10	-3,620.91	1,082.70	4,944.72	4,850.35	94.36	52.400	
18,500.00	7,618.00	7,659.22	7,567.93	163.41	30.29	89.08	-3,620.92	1,082.70	5,035.23	4,941.09	94.15	53.484	
18,600.00	7,618.00	7,658.37	7,567.08	165.08	30.29	89.06	-3,620.93	1,082.69	5,126.10	5,032.17	93.94	54.570	
18,700.00	7,618.00	7,657.53	7,566.24	166.75	30.29	89.03	-3,620.94	1,082.69	5,217.30	5,123.57	93.74	55.659	
18,711.30	7,618.00	7,657.43	7,566.14	166.94	30.29	89.03	-3,620.94	1,082.69	5,227.63	5,133.92	93.72	55.782	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	175.09	-4,029.39	346.42	4,044.28				
100.00	100.00	96.59	96.59	0.13	0.16	175.08	-4,029.23	346.63	4,044.13	4,043.84	0.29	N/A	
200.00	200.00	246.47	246.44	0.49	0.70	175.05	-4,027.66	348.63	4,043.20	4,042.01	1.19	3,393.337	
300.00	300.00	305.00	304.94	0.85	0.91	175.03	-4,026.48	350.12	4,041.73	4,039.97	1.76	2,297.487	
320.94	320.94	305.00	304.94	0.93	0.91	175.03	-4,026.48	350.12	4,041.68	4,039.84	1.83	2,203.224	
400.00	400.00	305.00	304.94	1.21	0.91	175.03	-4,026.48	350.12	4,042.45	4,040.33	2.12	1,906.303	
429.35	429.35	386.54	386.42	1.32	1.21	174.99	-4,025.67	353.12	4,041.21	4,038.69	2.52	1,603.402	
500.00	500.00	416.79	416.64	1.57	1.32	174.97	-4,025.89	354.57	4,042.04	4,039.15	2.88	1,401.405	
600.00	600.00	459.56	459.34	1.93	1.47	174.93	-4,026.70	356.93	4,044.41	4,041.01	3.40	1,189.782	
700.00	700.00	502.27	501.93	2.29	1.63	174.90	-4,028.08	359.65	4,048.20	4,044.29	3.91	1,034.442	
800.00	800.00	544.87	544.38	2.64	1.79	174.86	-4,030.03	362.73	4,053.41	4,048.98	4.43	915.846	
900.00	900.00	639.00	637.94	3.00	2.13	174.75	-4,036.34	370.80	4,060.79	4,055.67	5.12	792.782	
1,000.00	999.98	639.00	637.94	3.36	2.13	117.42	-4,036.34	370.80	4,068.88	4,063.41	5.47	743.286	
1,100.00	1,099.84	675.35	673.98	3.71	2.28	117.19	-4,039.48	374.31	4,080.65	4,074.69	5.96	684.454	
1,200.00	1,199.45	731.00	729.08	4.07	2.50	116.91	-4,044.99	379.89	4,095.33	4,088.81	6.52	627.791	
1,300.00	1,298.70	758.96	756.70	4.44	2.61	116.60	-4,048.13	382.85	4,112.88	4,105.89	6.99	588.607	
1,400.00	1,397.47	793.68	790.93	4.82	2.76	116.24	-4,052.48	386.81	4,133.49	4,126.00	7.49	552.162	
1,500.00	1,495.62	825.00	821.70	5.22	2.89	115.84	-4,056.83	390.64	4,157.09	4,149.11	7.98	520.808	
1,600.00	1,593.06	865.05	860.93	5.65	3.07	115.39	-4,062.94	395.87	4,183.58	4,175.04	8.54	490.103	
1,700.00	1,689.64	920.00	914.53	6.11	3.32	114.93	-4,072.27	403.60	4,212.99	4,203.81	9.17	459.256	
1,800.00	1,785.27	920.00	914.53	6.61	3.32	114.31	-4,072.27	403.60	4,245.01	4,235.41	9.60	442.324	
1,900.00	1,879.82	971.20	964.23	7.15	3.57	113.76	-4,081.96	411.19	4,279.65	4,269.37	10.28	416.411	
2,000.00	1,973.17	1,014.00	1,005.60	7.73	3.78	113.15	-4,090.83	417.65	4,317.02	4,306.07	10.95	394.251	
2,100.00	2,065.21	1,046.71	1,037.11	8.37	3.96	112.46	-4,097.99	422.68	4,356.81	4,345.20	11.61	375.128	
2,200.00	2,155.84	1,108.00	1,096.00	9.07	4.28	111.84	-4,112.02	432.29	4,398.93	4,386.48	12.45	353.287	
2,300.00	2,244.94	1,164.75	1,150.47	9.82	4.59	111.18	-4,125.37	440.97	4,442.89	4,429.58	13.31	333.841	
2,400.00	2,332.39	1,306.44	1,286.93	10.64	5.37	110.93	-4,157.33	461.75	4,487.20	4,472.56	14.65	306.344	
2,500.00	2,418.11	1,351.50	1,330.26	11.53	5.62	110.20	-4,167.52	468.78	4,533.14	4,517.59	15.55	291.613	
2,558.91	2,467.74	1,398.59	1,375.42	12.08	5.89	109.86	-4,178.42	476.46	4,561.09	4,544.88	16.21	281.437	
2,600.00	2,502.13	1,461.79	1,436.04	12.47	6.26	110.20	-4,192.73	487.18	4,580.61	4,563.77	16.84	271.972	
2,700.00	2,585.83	1,539.28	1,510.36	13.45	6.72	110.61	-4,210.03	500.65	4,628.04	4,610.05	17.99	257.234	
2,800.00	2,669.53	1,605.96	1,574.26	14.44	7.11	110.96	-4,225.03	512.36	4,675.86	4,656.76	19.10	244.864	
2,900.00	2,753.22	1,672.79	1,638.21	15.46	7.51	111.29	-4,240.31	524.38	4,724.20	4,703.99	20.21	233.743	
3,000.00	2,836.92	1,752.63	1,714.58	16.48	8.00	111.69	-4,258.70	538.62	4,772.90	4,751.49	21.41	222.908	
3,100.00	2,920.62	1,878.00	1,834.60	17.52	8.75	112.30	-4,286.66	561.68	4,821.09	4,798.19	22.90	210.538	
3,200.00	3,004.32	1,941.10	1,895.10	18.56	9.14	112.60	-4,300.76	572.74	4,869.61	4,845.60	24.01	202.791	
3,300.00	3,088.01	2,050.26	1,999.94	19.61	9.79	113.13	-4,325.01	591.03	4,918.21	4,892.80	25.40	193.606	
3,400.00	3,171.71	2,125.00	2,071.77	20.67	10.23	113.48	-4,341.38	603.67	4,966.76	4,940.17	26.59	186.804	
3,500.00	3,255.41	2,170.92	2,115.81	21.73	10.51	113.69	-4,351.63	611.66	5,015.89	4,988.29	27.60	181.749	
3,600.00	3,339.10	2,219.00	2,161.76	22.80	10.81	113.91	-4,362.84	620.33	5,065.92	5,037.30	28.62	177.025	
3,700.00	3,422.80	2,300.93	2,240.01	23.87	11.31	114.27	-4,382.19	634.99	5,116.45	5,086.59	29.86	171.369	
3,800.00	3,506.50	2,400.32	2,335.08	24.94	11.93	114.70	-4,405.30	652.45	5,166.83	5,135.62	31.21	165.550	
3,900.00	3,590.20	2,528.03	2,457.48	26.02	12.71	115.25	-4,433.87	675.06	5,216.50	5,183.75	32.76	159.257	
4,000.00	3,673.89	2,571.60	2,499.20	27.10	12.98	115.43	-4,443.71	682.94	5,266.65	5,232.91	33.74	156.092	
4,100.00	3,757.59	2,686.89	2,609.38	28.18	13.70	115.89	-4,470.10	704.20	5,317.28	5,282.06	35.22	150.992	
4,200.00	3,841.29	2,805.82	2,723.41	29.26	14.42	116.37	-4,496.17	725.73	5,367.14	5,330.42	36.71	146.194	
4,300.00	3,924.99	2,877.00	2,791.76	30.35	14.85	116.65	-4,511.56	738.31	5,416.93	5,379.05	37.88	143.004	
4,400.00	4,008.68	2,938.36	2,850.66	31.44	15.23	116.89	-4,524.99	749.03	5,467.12	5,428.14	38.97	140.274	
4,500.00	4,092.38	3,007.58	2,917.02	32.52	15.65	117.16	-4,540.50	761.18	5,517.84	5,477.72	40.12	137.530	
4,600.00	4,176.08	3,091.00	2,997.02	33.62	16.16	117.48	-4,559.12	775.74	5,568.64	5,527.28	41.37	134.621	
4,700.00	4,259.77	3,154.69	3,058.05	34.71	16.55	117.71	-4,573.48	786.98	5,619.76	5,577.29	42.47	132.327	
4,800.00	4,343.47	3,231.59	3,131.66	35.80	17.03	117.99	-4,590.99	800.67	5,671.17	5,627.51	43.67	129.877	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,427.17	3,367.39	3,261.79	36.89	17.86	118.48	-4,621.36	824.88	5,722.39	5,677.10	45.29	126.348	
5,000.00	4,510.87	3,443.19	3,334.42	37.99	18.33	118.74	-4,638.00	838.77	5,773.34	5,726.86	46.48	124.205	
5,100.00	4,594.56	3,513.30	3,401.54	39.08	18.77	118.98	-4,653.51	851.81	5,824.53	5,776.90	47.63	122.281	
5,200.00	4,678.26	3,572.51	3,458.22	40.18	19.13	119.18	-4,666.75	862.68	5,876.05	5,827.35	48.70	120.668	
5,300.00	4,761.96	3,624.09	3,507.56	41.28	19.45	119.35	-4,678.52	872.00	5,928.07	5,878.37	49.70	119.288	
5,400.00	4,845.66	3,809.40	3,685.20	42.37	20.59	119.97	-4,719.89	904.70	5,979.97	5,928.28	51.69	115.679	
5,500.00	4,929.35	3,867.97	3,741.53	43.47	20.95	120.16	-4,732.39	914.80	6,031.07	5,978.33	52.74	114.356	
5,600.00	5,013.05	3,919.00	3,790.53	44.57	21.25	120.33	-4,743.61	923.60	6,082.77	6,029.05	53.72	113.226	
5,700.00	5,096.75	3,951.20	3,821.41	45.67	21.45	120.43	-4,750.90	929.08	6,135.09	6,080.54	54.55	112.459	
5,800.00	5,180.45	3,987.69	3,856.39	46.77	21.68	120.55	-4,759.38	935.09	6,188.11	6,132.70	55.41	111.681	
5,900.00	5,264.14	5,415.08	5,257.79	47.87	27.96	125.79	-4,933.10	1,074.06	6,235.81	6,171.83	63.98	97.470	
6,000.00	5,347.84	5,516.59	5,359.29	48.97	28.21	126.22	-4,932.88	1,075.02	6,271.32	6,206.27	65.05	96.407	
6,100.00	5,431.54	5,600.02	5,442.71	50.07	28.41	126.57	-4,932.60	1,075.63	6,307.03	6,240.97	66.06	95.475	
6,200.00	5,515.23	5,692.91	5,535.60	51.17	28.64	126.96	-4,932.24	1,076.23	6,342.97	6,275.88	67.09	94.545	
6,300.00	5,598.93	5,779.19	5,621.88	52.27	28.85	127.32	-4,931.80	1,076.85	6,379.06	6,310.97	68.09	93.681	
6,400.00	5,682.63	5,870.62	5,713.31	53.38	29.07	127.70	-4,931.30	1,077.46	6,415.38	6,346.27	69.11	92.835	
6,500.00	5,766.33	5,969.08	5,811.76	54.48	29.30	128.10	-4,930.56	1,077.94	6,451.79	6,381.66	70.13	92.000	
6,600.00	5,850.02	6,066.41	5,909.08	55.58	29.53	128.50	-4,929.58	1,078.35	6,488.25	6,417.12	71.14	91.206	
6,700.00	5,933.72	6,162.96	6,005.63	56.68	29.76	128.89	-4,928.42	1,078.74	6,524.80	6,452.66	72.14	90.447	
6,800.00	6,017.42	6,249.98	6,092.64	57.79	29.96	129.23	-4,927.26	1,079.07	6,561.48	6,488.37	73.11	89.754	
6,900.00	6,101.12	6,364.74	6,207.38	58.89	30.23	129.69	-4,925.54	1,079.60	6,598.27	6,524.11	74.15	88.984	
7,000.00	6,184.81	6,478.94	6,321.56	59.99	30.50	130.13	-4,923.23	1,080.20	6,634.82	6,559.63	75.19	88.242	
7,100.00	6,268.51	6,528.90	6,371.52	61.10	30.63	130.32	-4,922.30	1,080.58	6,671.67	6,595.64	76.03	87.750	
7,200.00	6,352.21	6,588.58	6,431.18	62.20	30.78	130.55	-4,921.49	1,081.25	6,709.10	6,632.21	76.90	87.248	
7,300.00	6,435.90	6,658.00	6,500.59	63.31	30.96	130.81	-4,920.76	1,082.11	6,746.99	6,669.20	77.79	86.730	
7,400.00	6,519.60	6,734.17	6,576.76	64.41	31.16	131.09	-4,920.11	1,083.11	6,785.23	6,706.52	78.71	86.206	
7,500.00	6,603.30	6,834.67	6,677.24	65.51	31.43	131.46	-4,919.25	1,084.58	6,823.66	6,743.95	79.71	85.610	
7,600.00	6,687.00	6,952.16	6,794.70	66.62	31.74	131.88	-4,917.79	1,086.53	6,861.90	6,781.15	80.76	84.970	
7,700.00	6,770.69	7,014.09	6,856.62	67.72	31.90	132.10	-4,916.89	1,087.13	6,900.33	6,818.73	81.60	84.563	
7,800.00	6,854.39	7,122.30	6,964.82	68.83	32.17	132.50	-4,915.17	1,087.20	6,939.05	6,856.47	82.58	84.028	
7,900.00	6,938.09	7,247.01	7,089.50	69.93	32.47	132.95	-4,912.41	1,087.01	6,977.49	6,893.88	83.60	83.461	
7,933.18	6,965.86	7,291.18	7,133.65	70.30	32.58	133.11	-4,911.21	1,086.80	6,990.17	6,906.23	83.94	83.271	
7,950.00	6,980.00	7,313.65	7,156.11	70.49	32.63	130.71	-4,910.54	1,086.65	6,996.36	6,912.24	84.12	83.172	
8,000.00	7,022.68	7,350.07	7,192.51	71.01	32.72	122.86	-4,909.45	1,086.39	7,012.14	6,927.58	84.55	82.931	
8,050.00	7,066.06	7,384.25	7,226.68	71.51	32.80	114.25	-4,908.47	1,086.14	7,023.97	6,938.97	84.99	82.642	
8,100.00	7,109.82	7,414.00	7,256.42	71.97	32.87	105.18	-4,907.65	1,085.92	7,031.78	6,946.36	85.42	82.315	
8,150.00	7,153.63	7,438.04	7,280.45	72.38	32.93	96.12	-4,907.06	1,085.76	7,035.58	6,949.74	85.84	81.960	
8,200.00	7,197.14	7,459.09	7,301.50	72.74	32.98	87.58	-4,906.62	1,085.65	7,035.37	6,949.13	86.24	81.575	
8,250.00	7,240.04	7,479.87	7,322.28	73.05	33.04	79.95	-4,906.26	1,085.58	7,031.17	6,944.53	86.64	81.156	
8,300.00	7,281.99	7,508.00	7,350.40	73.31	33.11	73.46	-4,905.90	1,085.52	7,023.00	6,935.96	87.04	80.683	
8,350.00	7,322.67	7,543.87	7,386.27	73.52	33.20	68.15	-4,905.50	1,085.52	7,010.87	6,923.40	87.47	80.154	
8,400.00	7,361.77	7,600.59	7,442.98	73.68	33.35	64.03	-4,904.80	1,085.67	6,994.72	6,906.77	87.95	79.533	
8,450.00	7,399.01	7,643.14	7,485.53	73.78	33.46	60.84	-4,904.24	1,085.92	6,974.70	6,886.34	88.37	78.929	
8,500.00	7,434.08	7,683.02	7,525.40	73.85	33.57	58.53	-4,903.72	1,086.29	6,951.01	6,862.25	88.76	78.311	
8,550.00	7,466.74	7,747.64	7,590.01	73.87	33.75	57.22	-4,902.80	1,087.13	6,923.77	6,834.54	89.23	77.594	
8,600.00	7,496.72	8,600.00	7,616.89	73.85	36.12	56.47	-4,902.30	1,087.59	6,893.10	6,801.09	92.01	74.917	
8,650.00	7,523.80	7,839.14	7,681.48	73.79	34.00	56.81	-4,901.07	1,088.72	6,859.37	6,769.38	89.98	76.229	
8,700.00	7,547.77	7,868.69	7,711.02	73.70	34.08	57.76	-4,900.45	1,089.30	6,822.84	6,732.56	90.28	75.577	
8,750.00	7,568.45	7,893.93	7,736.24	73.58	34.15	59.63	-4,899.91	1,089.81	6,783.80	6,693.26	90.54	74.927	
8,800.00	7,585.69	7,885.00	7,727.32	73.43	34.13	62.24	-4,900.10	1,089.62	6,742.60	6,651.94	90.66	74.372	
8,850.00	7,599.35	7,905.13	7,747.45	73.26	34.19	66.63	-4,899.68	1,090.00	6,699.46	6,608.58	90.88	73.721	
8,900.00	7,609.33	7,910.19	7,752.50	73.07	34.20	72.66	-4,899.58	1,090.09	6,654.76	6,563.73	91.02	73.110	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,950.00	7,615.55	7,913.14	7,755.45	72.87	34.21	81.09	-4,899.53	1,090.14	6,608.79	6,517.64	91.15	72.502	
9,000.00	7,617.97	7,913.96	7,756.27	72.65	34.21	92.45	-4,899.51	1,090.15	6,561.89	6,470.63	91.27	71.898	
9,006.60	7,618.00	7,913.90	7,756.21	72.62	34.21	94.18	-4,899.51	1,090.15	6,555.65	6,464.37	91.28	71.818	
9,100.00	7,618.00	7,912.89	7,755.20	72.22	34.21	94.15	-4,899.53	1,090.13	6,467.31	6,375.84	91.48	70.700	
9,200.00	7,618.00	7,911.79	7,754.10	71.80	34.20	94.12	-4,899.55	1,090.12	6,372.89	6,281.20	91.69	69.502	
9,300.00	7,618.00	7,910.68	7,752.99	71.41	34.20	94.10	-4,899.57	1,090.10	6,278.64	6,186.72	91.92	68.306	
9,400.00	7,618.00	7,909.56	7,751.88	71.04	34.20	94.06	-4,899.59	1,090.08	6,184.58	6,092.42	92.16	67.110	
9,500.00	7,618.00	7,908.44	7,750.75	70.68	34.19	94.03	-4,899.62	1,090.06	6,090.70	5,998.29	92.40	65.915	
9,600.00	7,618.00	7,907.30	7,749.61	70.35	34.19	94.00	-4,899.64	1,090.04	5,997.02	5,904.36	92.66	64.720	
9,700.00	7,618.00	7,906.15	7,748.47	70.04	34.19	93.97	-4,899.66	1,090.02	5,903.54	5,810.61	92.93	63.527	
9,800.00	7,618.00	7,905.00	7,747.31	69.75	34.18	93.94	-4,899.69	1,090.00	5,810.28	5,717.07	93.21	62.336	
9,900.00	7,618.00	7,903.83	7,746.15	69.47	34.18	93.91	-4,899.71	1,089.98	5,717.25	5,623.75	93.50	61.145	
10,000.00	7,618.00	7,902.66	7,744.97	69.22	34.18	93.88	-4,899.73	1,089.96	5,624.46	5,530.65	93.81	59.957	
10,100.00	7,618.00	7,901.47	7,743.78	68.99	34.17	93.85	-4,899.76	1,089.94	5,531.92	5,437.79	94.13	58.770	
10,200.00	7,618.00	7,900.27	7,742.58	68.78	34.17	93.81	-4,899.78	1,089.92	5,439.65	5,345.18	94.46	57.585	
10,300.00	7,618.00	7,899.06	7,741.38	68.59	34.17	93.78	-4,899.81	1,089.90	5,347.65	5,252.84	94.81	56.403	
10,400.00	7,618.00	7,885.00	7,727.32	68.42	34.13	93.40	-4,900.10	1,089.62	5,255.97	5,160.85	95.12	55.257	
10,500.00	7,618.00	7,885.00	7,727.32	68.28	34.13	93.40	-4,900.10	1,089.62	5,164.56	5,069.06	95.50	54.077	
10,600.00	7,618.00	10,600.00	7,736.67	68.16	41.78	93.65	-4,899.91	1,089.80	5,073.47	4,969.48	103.99	48.789	
10,700.00	7,618.00	7,903.16	7,745.47	68.06	34.18	93.89	-4,899.71	1,090.00	4,982.71	4,886.29	96.42	51.678	
10,800.00	7,618.00	7,900.52	7,742.84	67.99	34.17	93.82	-4,899.76	1,089.94	4,892.34	4,795.49	96.85	50.515	
10,900.00	7,618.00	7,897.90	7,740.22	67.95	34.17	93.75	-4,899.82	1,089.89	4,802.35	4,705.05	97.30	49.356	
11,000.00	7,618.00	7,895.30	7,737.62	67.95	34.16	93.68	-4,899.88	1,089.84	4,712.77	4,614.99	97.77	48.201	
11,100.00	7,618.00	7,892.71	7,735.03	67.97	34.15	93.61	-4,899.93	1,089.78	4,623.60	4,525.34	98.27	47.052	
11,200.00	7,618.00	7,890.13	7,732.45	68.04	34.14	93.54	-4,899.99	1,089.73	4,534.89	4,436.11	98.78	45.907	
11,300.00	7,618.00	7,887.57	7,729.89	68.15	34.14	93.47	-4,900.05	1,089.68	4,446.66	4,347.33	99.33	44.768	
11,400.00	7,618.00	7,885.02	7,727.34	68.30	34.13	93.40	-4,900.10	1,089.62	4,358.93	4,259.04	99.89	43.635	
11,500.00	7,618.00	7,882.49	7,724.81	68.50	34.12	93.33	-4,900.16	1,089.57	4,271.75	4,171.26	100.49	42.510	
11,600.00	7,618.00	7,879.96	7,722.29	68.75	34.12	93.26	-4,900.21	1,089.52	4,185.13	4,084.02	101.11	41.391	
11,700.00	7,618.00	7,877.46	7,719.78	69.06	34.11	93.20	-4,900.26	1,089.47	4,099.12	3,997.36	101.76	40.280	
11,800.00	7,618.00	7,874.96	7,717.29	69.44	34.10	93.13	-4,900.32	1,089.42	4,013.76	3,911.31	102.45	39.179	
11,900.00	7,618.00	7,872.48	7,714.81	69.88	34.09	93.06	-4,900.37	1,089.37	3,929.09	3,825.92	103.16	38.086	
12,000.00	7,618.00	7,870.01	7,712.34	70.39	34.09	92.99	-4,900.42	1,089.32	3,845.15	3,741.24	103.91	37.004	
12,100.00	7,618.00	7,867.56	7,709.88	70.97	34.08	92.93	-4,900.47	1,089.27	3,762.00	3,657.30	104.70	35.933	
12,200.00	7,618.00	7,865.11	7,707.44	71.63	34.07	92.86	-4,900.53	1,089.22	3,679.68	3,574.17	105.52	34.873	
12,300.00	7,618.00	7,862.68	7,705.01	72.35	34.07	92.80	-4,900.58	1,089.18	3,598.26	3,491.89	106.37	33.827	
12,400.00	7,618.00	7,860.27	7,702.60	73.15	34.06	92.73	-4,900.63	1,089.13	3,517.80	3,410.53	107.27	32.794	
12,500.00	7,618.00	7,857.86	7,700.19	74.01	34.05	92.66	-4,900.68	1,089.08	3,438.36	3,330.15	108.20	31.777	
12,600.00	7,618.00	7,855.47	7,697.80	74.93	34.05	92.60	-4,900.73	1,089.04	3,360.01	3,250.83	109.18	30.775	
12,700.00	7,618.00	7,853.09	7,695.43	75.91	34.04	92.54	-4,900.78	1,088.99	3,282.84	3,172.65	110.20	29.791	
12,800.00	7,618.00	7,850.72	7,693.06	76.95	34.03	92.47	-4,900.83	1,088.94	3,206.94	3,095.68	111.25	28.826	
12,900.00	7,618.00	7,848.37	7,690.71	78.04	34.03	92.41	-4,900.88	1,088.90	3,132.38	3,020.03	112.35	27.880	
13,000.00	7,618.00	7,846.03	7,688.36	79.16	34.02	92.34	-4,900.92	1,088.85	3,059.27	2,945.78	113.49	26.957	
13,100.00	7,618.00	7,843.70	7,686.03	80.33	34.02	92.28	-4,900.97	1,088.81	2,987.72	2,873.06	114.67	26.056	
13,200.00	7,618.00	7,841.38	7,683.72	81.54	34.01	92.22	-4,901.02	1,088.76	2,917.85	2,801.96	115.88	25.180	
13,300.00	7,618.00	7,839.07	7,681.41	82.78	34.00	92.15	-4,901.07	1,088.72	2,849.76	2,732.63	117.13	24.330	
13,400.00	7,618.00	7,836.77	7,679.12	84.05	34.00	92.09	-4,901.11	1,088.68	2,783.61	2,665.19	118.41	23.508	
13,500.00	7,618.00	7,834.49	7,676.83	85.35	33.99	92.03	-4,901.16	1,088.63	2,719.52	2,599.79	119.72	22.715	
13,600.00	7,618.00	7,832.22	7,674.56	86.67	33.98	91.97	-4,901.21	1,088.59	2,657.64	2,536.59	121.05	21.955	
13,700.00	7,618.00	7,829.96	7,672.30	88.02	33.98	91.91	-4,901.25	1,088.55	2,598.14	2,475.75	122.40	21.227	
13,800.00	7,618.00	7,827.71	7,670.05	89.38	33.97	91.85	-4,901.30	1,088.50	2,541.19	2,417.44	123.75	20.535	
13,900.00	7,618.00	7,825.47	7,667.82	90.77	33.96	91.79	-4,901.34	1,088.46	2,486.95	2,361.85	125.09	19.881	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,618.00	7,823.25	7,665.59	92.17	33.96	91.73	-4,901.39	1,088.42	2,435.60	2,309.18	126.42	19.265	
14,100.00	7,618.00	7,821.03	7,663.38	93.59	33.95	91.67	-4,901.43	1,088.38	2,387.34	2,259.62	127.73	18.691	
14,200.00	7,618.00	7,818.83	7,661.17	95.02	33.95	91.61	-4,901.48	1,088.34	2,342.36	2,213.37	128.98	18.160	
14,300.00	7,618.00	7,816.63	7,658.98	96.47	33.94	91.55	-4,901.52	1,088.30	2,300.84	2,170.66	130.19	17.674	
14,400.00	7,618.00	7,814.45	7,656.80	97.93	33.93	91.49	-4,901.57	1,088.26	2,262.98	2,131.67	131.31	17.234	
14,500.00	7,618.00	7,812.28	7,654.63	99.41	33.93	91.43	-4,901.61	1,088.22	2,228.97	2,096.63	132.34	16.842	
14,600.00	7,618.00	7,810.12	7,652.47	100.89	33.92	91.37	-4,901.65	1,088.18	2,198.98	2,065.72	133.27	16.501	
14,700.00	7,618.00	7,807.97	7,650.32	102.38	33.92	91.31	-4,901.69	1,088.14	2,173.18	2,039.12	134.06	16.210	
14,800.00	7,618.00	7,807.41	7,649.77	103.89	33.91	91.30	-4,901.70	1,088.14	2,151.72	2,016.99	134.73	15.971	
14,900.00	7,618.00	7,804.98	7,647.34	105.40	33.91	91.23	-4,901.75	1,088.09	2,134.73	1,999.51	135.22	15.787	
15,000.00	7,618.00	7,802.59	7,644.95	106.92	33.90	91.17	-4,901.80	1,088.05	2,122.32	1,986.77	135.55	15.657	
15,100.00	7,618.00	7,800.24	7,642.60	108.45	33.89	91.10	-4,901.84	1,088.00	2,114.57	1,978.87	135.70	15.583	
15,200.00	7,618.00	7,797.93	7,640.28	109.99	33.89	91.04	-4,901.89	1,087.96	2,111.53	1,975.86	135.67	15.563	SF
15,214.24	7,618.00	7,797.60	7,639.96	110.21	33.89	91.03	-4,901.90	1,087.96	2,111.49	1,975.83	135.66	15.565	CC, ES
15,300.00	7,618.00	7,795.65	7,638.01	111.54	33.88	90.98	-4,901.94	1,087.92	2,113.23	1,977.76	135.47	15.600	
15,400.00	7,618.00	7,793.41	7,635.77	113.09	33.88	90.92	-4,901.98	1,087.88	2,119.64	1,984.55	135.09	15.691	
15,500.00	7,618.00	7,791.21	7,633.57	114.65	33.87	90.86	-4,902.02	1,087.84	2,130.73	1,996.19	134.54	15.838	
15,600.00	7,618.00	7,789.04	7,631.40	116.21	33.86	90.80	-4,902.07	1,087.80	2,146.42	2,012.59	133.83	16.038	
15,700.00	7,618.00	7,786.91	7,629.26	117.78	33.86	90.74	-4,902.11	1,087.77	2,166.62	2,033.64	132.98	16.293	
15,800.00	7,618.00	7,784.80	7,627.16	119.36	33.85	90.68	-4,902.15	1,087.73	2,191.20	2,059.19	132.01	16.599	
15,900.00	7,618.00	7,782.73	7,625.09	120.94	33.85	90.63	-4,902.19	1,087.69	2,220.01	2,089.08	130.93	16.956	
16,000.00	7,618.00	7,780.70	7,623.06	122.53	33.84	90.57	-4,902.22	1,087.66	2,252.89	2,123.14	129.75	17.363	
16,100.00	7,618.00	7,778.69	7,621.05	124.12	33.84	90.52	-4,902.26	1,087.63	2,289.67	2,161.17	128.51	17.818	
16,200.00	7,618.00	7,776.71	7,619.07	125.72	33.83	90.46	-4,902.30	1,087.59	2,330.17	2,202.96	127.21	18.318	
16,300.00	7,618.00	7,774.76	7,617.13	127.32	33.82	90.41	-4,902.33	1,087.56	2,374.19	2,248.32	125.87	18.863	
16,400.00	7,618.00	7,772.84	7,615.21	128.93	33.82	90.36	-4,902.37	1,087.53	2,421.53	2,297.03	124.50	19.450	
16,500.00	7,618.00	7,770.95	7,613.32	130.54	33.81	90.31	-4,902.40	1,087.50	2,472.02	2,348.89	123.13	20.076	
16,600.00	7,618.00	7,769.09	7,611.46	132.15	33.81	90.26	-4,902.44	1,087.47	2,525.45	2,403.69	121.76	20.741	
16,700.00	7,618.00	7,767.26	7,609.62	133.77	33.80	90.21	-4,902.47	1,087.44	2,581.66	2,461.25	120.40	21.442	
16,800.00	7,618.00	7,765.45	7,607.81	135.39	33.80	90.16	-4,902.50	1,087.41	2,640.45	2,521.39	119.07	22.176	
16,900.00	7,618.00	7,763.66	7,606.03	137.01	33.79	90.11	-4,902.53	1,087.38	2,701.67	2,583.91	117.76	22.943	
17,000.00	7,618.00	7,761.90	7,604.27	138.64	33.79	90.06	-4,902.56	1,087.35	2,765.15	2,648.67	116.48	23.739	
17,100.00	7,618.00	7,760.17	7,602.54	140.27	33.78	90.01	-4,902.59	1,087.32	2,830.73	2,715.49	115.24	24.564	
17,200.00	7,618.00	7,758.46	7,600.83	141.91	33.78	89.97	-4,902.62	1,087.30	2,898.29	2,784.25	114.04	25.414	
17,300.00	7,618.00	7,756.78	7,599.14	143.55	33.77	89.92	-4,902.65	1,087.27	2,967.67	2,854.79	112.88	26.289	
17,400.00	7,618.00	7,755.11	7,597.48	145.19	33.77	89.88	-4,902.68	1,087.24	3,038.76	2,926.99	111.77	27.187	
17,500.00	7,618.00	7,753.47	7,595.84	146.83	33.77	89.83	-4,902.71	1,087.22	3,111.44	3,000.74	110.70	28.106	
17,600.00	7,618.00	7,751.86	7,594.23	148.48	33.76	89.79	-4,902.73	1,087.19	3,185.60	3,075.92	109.68	29.044	
17,700.00	7,618.00	7,750.26	7,592.63	150.13	33.76	89.75	-4,902.76	1,087.17	3,261.14	3,152.44	108.70	30.000	
17,800.00	7,618.00	7,748.69	7,591.06	151.78	33.75	89.70	-4,902.79	1,087.15	3,337.96	3,230.19	107.77	30.973	
17,900.00	7,618.00	7,747.13	7,589.50	153.43	33.75	89.66	-4,902.81	1,087.12	3,415.99	3,309.11	106.88	31.961	
18,000.00	7,618.00	7,745.60	7,587.97	155.09	33.74	89.62	-4,902.84	1,087.10	3,495.13	3,389.10	106.03	32.964	
18,100.00	7,618.00	7,744.09	7,586.46	156.75	33.74	89.58	-4,902.86	1,087.08	3,575.32	3,470.10	105.22	33.979	
18,200.00	7,618.00	7,742.60	7,584.97	158.41	33.74	89.54	-4,902.89	1,087.06	3,656.48	3,552.03	104.45	35.007	
18,300.00	7,618.00	7,741.12	7,583.50	160.07	33.73	89.50	-4,902.91	1,087.03	3,738.56	3,634.84	103.72	36.045	
18,400.00	7,618.00	7,739.67	7,582.04	161.74	33.73	89.46	-4,902.93	1,087.01	3,821.49	3,718.46	103.02	37.094	
18,500.00	7,618.00	7,738.23	7,580.61	163.41	33.72	89.42	-4,902.96	1,086.99	3,905.21	3,802.85	102.36	38.151	
18,600.00	7,618.00	7,736.82	7,579.19	165.08	33.72	89.38	-4,902.98	1,086.97	3,989.69	3,887.96	101.73	39.217	
18,700.00	7,618.00	7,735.42	7,577.79	166.75	33.72	89.34	-4,903.00	1,086.95	4,074.87	3,973.73	101.14	40.291	
18,711.30	7,618.00	7,735.26	7,577.63	166.94	33.72	89.34	-4,903.00	1,086.95	4,084.54	3,983.47	101.07	40.413	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	134.84	-2,139.37	2,151.17	3,034.29				
100.00	100.00	51.14	51.14	0.13	0.08	134.84	-2,139.32	2,151.21	3,033.87	3,033.66	0.22	N/A	
200.00	200.00	157.30	157.30	0.49	0.36	134.83	-2,138.91	2,151.45	3,033.76	3,032.91	0.86	3,541.348	
300.00	300.00	257.13	257.13	0.85	0.71	134.83	-2,138.58	2,151.35	3,033.46	3,031.90	1.57	1,937.908	
400.00	400.00	352.55	352.55	1.21	1.04	134.83	-2,138.68	2,151.06	3,033.32	3,031.06	2.25	1,345.788	
500.00	500.00	453.04	453.04	1.57	1.39	134.84	-2,138.88	2,150.77	3,033.25	3,030.29	2.96	1,023.898	
600.00	600.00	554.89	554.88	1.93	1.75	134.85	-2,139.27	2,150.17	3,033.11	3,029.43	3.68	824.189	
700.00	700.00	656.93	656.92	2.29	2.12	134.87	-2,139.71	2,149.48	3,032.93	3,028.52	4.40	689.157	
800.00	800.00	767.15	767.13	2.64	2.51	134.89	-2,140.21	2,148.43	3,032.57	3,027.42	5.15	588.568	
900.00	900.00	870.14	870.12	3.00	2.88	134.92	-2,140.66	2,147.00	3,031.90	3,026.02	5.88	515.688	
1,000.00	999.98	958.61	958.58	3.36	3.19	77.79	-2,141.21	2,145.80	3,031.01	3,024.46	6.55	462.721	
1,100.00	1,099.84	1,049.47	1,049.42	3.71	3.52	77.93	-2,142.14	2,144.76	3,029.83	3,022.60	7.23	419.181	
1,200.00	1,199.45	1,155.82	1,155.76	4.07	3.90	78.17	-2,143.36	2,143.50	3,028.00	3,020.03	7.97	380.092	
1,300.00	1,298.70	1,261.22	1,261.14	4.44	4.28	78.50	-2,144.36	2,141.93	3,025.14	3,016.43	8.71	347.254	
1,400.00	1,397.47	1,359.17	1,359.08	4.82	4.63	78.89	-2,145.41	2,140.29	3,021.63	3,012.19	9.44	319.942	
1,500.00	1,495.62	1,458.57	1,458.46	5.22	4.99	79.36	-2,146.53	2,138.57	3,017.57	3,007.37	10.20	295.791	
1,600.00	1,593.06	1,555.69	1,555.55	5.65	5.34	79.90	-2,147.61	2,136.81	3,012.97	3,001.99	10.98	274.500	
1,700.00	1,689.64	1,649.78	1,649.61	6.11	5.67	80.49	-2,148.74	2,135.09	3,008.03	2,996.25	11.77	255.547	
1,800.00	1,785.27	1,745.10	1,744.92	6.61	6.02	81.15	-2,149.85	2,133.44	3,002.83	2,990.22	12.61	238.183	
1,900.00	1,879.82	1,845.33	1,845.13	7.15	6.38	81.92	-2,150.91	2,131.68	2,997.36	2,983.86	13.50	221.963	
2,000.00	1,973.17	1,946.99	1,946.77	7.73	6.74	82.76	-2,151.66	2,129.80	2,991.54	2,977.09	14.45	206.975	
2,100.00	2,065.21	2,043.06	2,042.81	8.37	7.09	83.62	-2,152.10	2,127.99	2,985.57	2,970.13	15.44	193.414	
2,200.00	2,155.84	2,136.22	2,135.96	9.07	7.42	84.52	-2,152.37	2,126.26	2,979.70	2,963.24	16.47	180.967	
2,300.00	2,244.94	2,230.69	2,230.42	9.82	7.76	85.48	-2,152.35	2,124.64	2,974.05	2,956.49	17.56	169.370	
2,400.00	2,332.39	2,321.48	2,321.19	10.64	8.09	86.45	-2,151.99	2,123.17	2,968.67	2,949.97	18.70	158.723	
2,500.00	2,418.11	2,398.11	2,397.82	11.53	8.36	87.31	-2,151.73	2,122.04	2,964.06	2,944.20	19.86	149.214	
2,558.91	2,467.74	2,445.29	2,444.99	12.08	8.53	87.86	-2,151.65	2,121.38	2,961.81	2,941.22	20.59	143.868	
2,600.00	2,502.13	2,478.04	2,477.74	12.47	8.64	88.21	-2,151.62	2,120.92	2,960.45	2,939.35	21.10	140.302	
2,700.00	2,585.83	2,587.39	2,587.07	13.45	9.03	89.39	-2,151.29	2,119.10	2,957.64	2,935.17	22.47	131.613	
2,800.00	2,669.53	2,677.69	2,677.35	14.44	9.36	90.37	-2,150.50	2,117.20	2,955.25	2,931.46	23.79	124.202	
2,900.00	2,753.22	2,796.40	2,796.01	15.46	9.77	91.65	-2,148.76	2,114.52	2,953.47	2,928.25	25.22	117.094	
3,000.00	2,836.92	2,882.17	2,881.73	16.48	10.08	92.57	-2,146.88	2,112.34	2,952.07	2,925.52	26.55	111.192	
3,067.74	2,893.62	2,931.71	2,931.25	17.18	10.25	93.11	-2,145.89	2,110.97	2,951.74	2,924.31	27.42	107.633	
3,100.00	2,920.62	2,953.71	2,953.23	17.52	10.33	93.35	-2,145.48	2,110.41	2,951.82	2,923.98	27.84	106.047	
3,200.00	3,004.32	3,025.48	3,024.98	18.56	10.58	94.12	-2,144.28	2,108.80	2,953.01	2,923.88	29.12	101.393	
3,300.00	3,088.01	3,104.94	3,104.42	19.61	10.86	94.97	-2,142.92	2,107.44	2,955.42	2,924.98	30.44	97.090	
3,400.00	3,171.71	3,176.50	3,175.95	20.67	11.12	95.73	-2,141.81	2,106.42	2,959.08	2,927.36	31.73	93.266	
3,500.00	3,255.41	3,247.34	3,246.79	21.73	11.37	96.49	-2,140.98	2,105.51	2,964.10	2,931.09	33.01	89.796	
3,600.00	3,339.10	3,318.27	3,317.71	22.80	11.62	97.24	-2,140.39	2,104.81	2,970.50	2,936.21	34.29	86.637	
3,700.00	3,422.80	3,390.86	3,390.30	23.87	11.87	98.01	-2,139.98	2,104.35	2,978.22	2,942.66	35.56	83.743	
3,800.00	3,506.50	3,471.62	3,471.06	24.94	12.16	98.85	-2,139.68	2,103.98	2,987.14	2,950.27	36.86	81.032	
3,900.00	3,590.20	3,554.27	3,553.71	26.02	12.45	99.72	-2,139.42	2,103.61	2,997.08	2,958.91	38.16	78.533	
4,000.00	3,673.89	3,637.62	3,637.05	27.10	12.75	100.58	-2,139.17	2,103.23	3,008.00	2,968.54	39.46	76.236	
4,100.00	3,757.59	3,721.23	3,720.66	28.18	13.04	101.45	-2,138.90	2,102.90	3,019.88	2,979.14	40.74	74.124	
4,200.00	3,841.29	3,804.49	3,803.92	29.26	13.34	102.30	-2,138.63	2,102.60	3,032.72	2,990.70	42.01	72.186	
4,300.00	3,924.99	3,884.20	3,883.63	30.35	13.62	103.11	-2,138.42	2,102.36	3,046.54	3,003.28	43.26	70.425	
4,400.00	4,008.68	3,969.21	3,968.64	31.44	13.92	103.97	-2,138.26	2,102.04	3,061.34	3,016.82	44.52	68.769	
4,500.00	4,092.38	4,057.71	4,057.14	32.52	14.24	104.87	-2,138.08	2,101.38	3,076.95	3,031.18	45.77	67.220	
4,600.00	4,176.08	4,149.20	4,148.62	33.62	14.57	105.79	-2,137.77	2,100.44	3,093.29	3,046.26	47.03	65.771	
4,700.00	4,259.77	4,242.13	4,241.54	34.71	14.90	106.73	-2,137.28	2,099.06	3,110.29	3,062.01	48.28	64.423	
4,800.00	4,343.47	4,332.22	4,331.62	35.80	15.22	107.63	-2,136.54	2,097.64	3,127.93	3,078.43	49.50	63.188	
4,900.00	4,427.17	4,415.91	4,415.29	36.89	15.52	108.45	-2,135.78	2,096.25	3,146.37	3,095.68	50.69	62.076	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,510.87	4,494.80	4,494.17	37.99	15.81	109.23	-2,135.16	2,094.76	3,165.73	3,113.89	51.84	61.073	
5,100.00	4,594.56	4,600.80	4,600.13	39.08	16.19	110.27	-2,134.12	2,092.31	3,185.73	3,132.66	53.08	60.023	
5,200.00	4,678.26	4,682.92	4,682.21	40.18	16.48	111.07	-2,133.04	2,090.17	3,206.28	3,152.07	54.21	59.149	
5,300.00	4,761.96	4,763.04	4,762.31	41.28	16.77	111.85	-2,132.02	2,088.08	3,227.70	3,172.38	55.32	58.351	
5,400.00	4,845.66	4,845.68	4,844.91	42.37	17.07	112.64	-2,131.03	2,085.98	3,250.00	3,193.59	56.42	57.606	
5,500.00	4,929.35	4,928.70	4,927.90	43.47	17.36	113.42	-2,129.98	2,083.97	3,273.08	3,215.57	57.51	56.916	
5,600.00	5,013.05	5,008.01	5,007.19	44.57	17.65	114.16	-2,129.04	2,082.09	3,297.01	3,238.44	58.57	56.296	
5,700.00	5,096.75	5,092.10	5,091.25	45.67	17.95	114.94	-2,128.07	2,080.14	3,321.73	3,262.10	59.63	55.707	
5,800.00	5,180.45	5,174.92	5,174.04	46.77	18.25	115.69	-2,127.10	2,078.28	3,347.19	3,286.52	60.67	55.169	
5,900.00	5,264.14	5,278.93	5,278.01	47.87	18.62	116.63	-2,125.62	2,076.17	3,373.20	3,311.42	61.79	54.594	
6,000.00	5,347.84	5,370.76	5,369.82	48.97	18.94	117.43	-2,123.78	2,074.84	3,399.43	3,336.59	62.84	54.098	
6,100.00	5,431.54	5,456.87	5,455.91	50.07	19.25	118.17	-2,121.95	2,073.92	3,426.24	3,362.39	63.85	53.659	
6,200.00	5,515.23	5,539.67	5,538.68	51.17	19.54	118.87	-2,120.16	2,073.36	3,453.67	3,388.83	64.84	53.265	
6,300.00	5,598.93	5,619.64	5,618.63	52.27	19.82	119.53	-2,118.50	2,073.11	3,481.82	3,416.02	65.80	52.913	
6,400.00	5,682.63	5,700.03	5,699.01	53.38	20.10	120.19	-2,116.94	2,072.96	3,510.66	3,443.91	66.75	52.592	
6,500.00	5,766.33	5,779.31	5,778.27	54.48	20.37	120.83	-2,115.49	2,072.84	3,540.20	3,472.51	67.69	52.303	
6,600.00	5,850.02	5,861.86	5,860.82	55.58	20.66	121.48	-2,114.07	2,072.72	3,570.39	3,501.77	68.62	52.030	
6,700.00	5,933.72	5,944.90	5,943.84	56.68	20.95	122.13	-2,112.66	2,072.61	3,601.17	3,531.62	69.55	51.780	
6,800.00	6,017.42	6,025.81	6,024.73	57.79	21.23	122.76	-2,111.32	2,072.49	3,632.52	3,562.07	70.45	51.560	
6,900.00	6,101.12	6,104.23	6,103.15	58.89	21.50	123.36	-2,110.14	2,072.39	3,664.53	3,593.20	71.33	51.371	
7,000.00	6,184.81	6,196.15	6,195.06	59.99	21.82	124.05	-2,108.72	2,072.25	3,697.02	3,624.76	72.27	51.159	
7,100.00	6,268.51	6,290.15	6,289.04	61.10	22.15	124.75	-2,107.03	2,072.05	3,729.82	3,656.62	73.20	50.956	
7,200.00	6,352.21	6,359.68	6,358.56	62.20	22.40	125.26	-2,105.80	2,071.91	3,763.13	3,689.12	74.01	50.848	
7,300.00	6,435.90	6,432.30	6,431.17	63.31	22.65	125.78	-2,104.85	2,071.83	3,797.27	3,722.45	74.82	50.752	
7,400.00	6,519.60	6,514.31	6,513.18	64.41	22.94	126.37	-2,103.87	2,071.72	3,831.99	3,756.32	75.67	50.642	
7,500.00	6,603.30	6,596.87	6,595.73	65.51	23.23	126.95	-2,102.92	2,071.58	3,867.20	3,790.69	76.51	50.545	
7,600.00	6,687.00	6,674.84	6,673.70	66.62	23.50	127.49	-2,102.09	2,071.44	3,902.92	3,825.60	77.32	50.478	
7,700.00	6,770.69	6,753.54	6,752.40	67.72	23.78	128.03	-2,101.39	2,071.41	3,939.19	3,861.06	78.12	50.423	
7,800.00	6,854.39	6,845.52	6,844.37	68.83	24.09	128.64	-2,100.71	2,071.85	3,975.91	3,896.93	78.98	50.340	
7,900.00	6,938.09	6,943.63	6,942.48	69.93	24.43	129.27	-2,099.61	2,072.62	4,012.66	3,932.80	79.86	50.244	
7,933.18	6,965.86	6,972.30	6,971.14	70.30	24.52	129.46	-2,099.26	2,072.86	4,024.91	3,944.77	80.14	50.226	
7,950.00	6,980.00	6,986.89	6,985.73	70.49	24.57	127.11	-2,099.08	2,072.99	4,030.91	3,950.63	80.27	50.215	
8,000.00	7,022.68	7,032.14	7,030.97	71.01	24.73	119.53	-2,098.51	2,073.39	4,046.08	3,965.38	80.70	50.139	
8,050.00	7,066.06	7,078.65	7,077.48	71.51	24.89	111.17	-2,097.90	2,073.83	4,057.20	3,976.07	81.13	50.009	
8,100.00	7,109.82	7,124.75	7,123.57	71.97	25.05	102.34	-2,097.27	2,074.28	4,064.21	3,982.65	81.56	49.830	
8,150.00	7,153.63	7,170.20	7,169.01	72.38	25.20	93.52	-2,096.63	2,074.74	4,067.07	3,985.09	81.98	49.608	
8,200.00	7,197.14	7,216.86	7,215.67	72.74	25.36	85.24	-2,095.96	2,075.22	4,065.78	3,983.38	82.40	49.340	
8,250.00	7,240.04	7,265.85	7,264.64	73.05	25.53	77.88	-2,095.20	2,075.75	4,060.33	3,977.51	82.82	49.025	
8,300.00	7,281.99	7,316.38	7,315.17	73.31	25.70	71.65	-2,094.34	2,076.36	4,050.75	3,967.51	83.23	48.667	
8,350.00	7,322.67	7,371.78	7,370.56	73.52	25.89	66.61	-2,093.26	2,077.13	4,037.07	3,953.41	83.65	48.259	
8,400.00	7,361.77	7,414.81	7,413.56	73.68	26.04	62.57	-2,092.30	2,077.79	4,019.41	3,935.41	84.00	47.852	
8,450.00	7,399.01	7,444.84	7,443.59	73.78	26.15	59.42	-2,091.66	2,078.24	3,998.06	3,913.80	84.26	47.448	
8,500.00	7,434.08	7,473.09	7,471.83	73.85	26.24	57.15	-2,091.09	2,078.63	3,973.22	3,888.72	84.50	47.020	
8,550.00	7,466.74	7,500.00	7,498.73	73.87	26.33	55.70	-2,090.59	2,078.98	3,945.05	3,860.33	84.72	46.568	
8,600.00	7,496.72	7,527.58	7,526.30	73.85	26.43	55.05	-2,090.10	2,079.31	3,913.73	3,828.81	84.92	46.087	
8,650.00	7,523.80	7,553.03	7,551.75	73.79	26.52	55.17	-2,089.64	2,079.58	3,879.48	3,794.38	85.10	45.586	
8,700.00	7,547.77	7,575.42	7,574.13	73.70	26.60	56.12	-2,089.24	2,079.79	3,842.54	3,757.28	85.26	45.070	
8,750.00	7,568.45	7,594.57	7,593.28	73.58	26.66	57.99	-2,088.89	2,079.95	3,803.17	3,717.79	85.38	44.542	
8,800.00	7,585.69	7,610.10	7,608.80	73.43	26.72	60.96	-2,088.61	2,080.07	3,761.66	3,676.18	85.49	44.002	
8,850.00	7,599.35	7,622.13	7,620.84	73.26	26.76	65.32	-2,088.40	2,080.17	3,718.30	3,632.74	85.57	43.454	
8,900.00	7,609.33	7,630.71	7,629.41	73.07	26.79	71.52	-2,088.24	2,080.23	3,673.40	3,587.77	85.63	42.899	
8,950.00	7,615.55	7,635.75	7,634.45	72.87	26.80	80.13	-2,088.16	2,080.27	3,627.28	3,541.61	85.67	42.339	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	7,637.21	7,635.91	72.65	26.81	91.68	-2,088.13	2,080.28	3,580.26	3,494.56	85.70	41.777	
9,006.60	7,618.00	7,637.13	7,635.83	72.62	26.81	93.44	-2,088.13	2,080.28	3,574.00	3,488.29	85.70	41.702	
9,100.00	7,618.00	7,635.60	7,634.30	72.22	26.80	93.36	-2,088.16	2,080.27	3,485.52	3,399.78	85.74	40.654	
9,200.00	7,618.00	7,633.95	7,632.66	71.80	26.80	93.28	-2,088.19	2,080.26	3,391.08	3,305.30	85.78	39.534	
9,300.00	7,618.00	7,632.30	7,631.01	71.41	26.79	93.20	-2,088.22	2,080.24	3,296.96	3,211.15	85.82	38.418	
9,400.00	7,618.00	7,630.65	7,629.35	71.04	26.79	93.11	-2,088.25	2,080.23	3,203.21	3,117.34	85.86	37.306	
9,500.00	7,618.00	7,628.98	7,627.69	70.68	26.78	93.03	-2,088.27	2,080.22	3,109.83	3,023.92	85.91	36.198	
9,600.00	7,618.00	7,627.32	7,626.02	70.35	26.78	92.94	-2,088.30	2,080.21	3,016.89	2,930.92	85.97	35.094	
9,700.00	7,618.00	7,625.64	7,624.34	70.04	26.77	92.86	-2,088.33	2,080.19	2,924.41	2,838.38	86.02	33.995	
9,800.00	7,618.00	7,623.96	7,622.66	69.75	26.76	92.77	-2,088.36	2,080.18	2,832.43	2,746.35	86.09	32.903	
9,900.00	7,618.00	7,622.27	7,620.97	69.47	26.76	92.69	-2,088.39	2,080.17	2,741.02	2,654.87	86.15	31.816	
10,000.00	7,618.00	7,620.57	7,619.28	69.22	26.75	92.60	-2,088.42	2,080.15	2,650.23	2,564.01	86.22	30.736	
10,100.00	7,618.00	7,618.87	7,617.58	68.99	26.75	92.52	-2,088.45	2,080.14	2,560.13	2,473.82	86.30	29.665	
10,200.00	7,618.00	7,617.16	7,615.87	68.78	26.74	92.43	-2,088.48	2,080.13	2,470.78	2,384.39	86.39	28.601	
10,300.00	7,618.00	7,615.45	7,614.16	68.59	26.73	92.34	-2,088.51	2,080.11	2,382.28	2,295.80	86.48	27.548	
10,400.00	7,618.00	7,613.73	7,612.44	68.42	26.73	92.25	-2,088.55	2,080.10	2,294.72	2,208.15	86.57	26.506	
10,500.00	7,618.00	7,612.00	7,610.71	68.28	26.72	92.17	-2,088.58	2,080.09	2,208.22	2,121.54	86.68	25.476	
10,600.00	7,618.00	7,610.27	7,608.97	68.16	26.72	92.08	-2,088.61	2,080.07	2,122.90	2,036.11	86.79	24.460	
10,700.00	7,618.00	7,608.53	7,607.23	68.06	26.71	91.99	-2,088.64	2,080.06	2,038.92	1,952.01	86.91	23.460	
10,800.00	7,618.00	7,606.78	7,605.49	67.99	26.70	91.90	-2,088.67	2,080.05	1,956.44	1,869.41	87.04	22.478	
10,900.00	7,618.00	7,605.02	7,603.73	67.95	26.70	91.81	-2,088.70	2,080.03	1,875.67	1,788.50	87.17	21.517	
11,000.00	7,618.00	7,603.26	7,601.97	67.95	26.69	91.72	-2,088.73	2,080.02	1,796.83	1,709.51	87.32	20.578	
11,100.00	7,618.00	7,601.49	7,600.20	67.97	26.69	91.63	-2,088.77	2,080.01	1,720.19	1,632.72	87.47	19.667	
11,200.00	7,618.00	7,599.73	7,598.44	68.04	26.68	91.54	-2,088.80	2,079.99	1,646.05	1,558.43	87.62	18.786	
11,300.00	7,618.00	7,598.00	7,596.71	68.15	26.67	91.46	-2,088.83	2,079.98	1,574.78	1,487.00	87.78	17.940	
11,400.00	7,618.00	7,596.27	7,594.98	68.30	26.67	91.37	-2,088.86	2,079.97	1,506.77	1,418.83	87.94	17.134	
11,500.00	7,618.00	7,594.54	7,593.25	68.50	26.66	91.28	-2,088.89	2,079.95	1,442.49	1,354.39	88.10	16.374	
11,600.00	7,618.00	7,592.82	7,591.53	68.75	26.66	91.19	-2,088.92	2,079.94	1,382.46	1,294.22	88.25	15.666	
11,700.00	7,618.00	7,591.09	7,589.80	69.06	26.65	91.11	-2,088.95	2,079.92	1,327.26	1,238.89	88.37	15.019	
11,800.00	7,618.00	7,589.37	7,588.08	69.44	26.64	91.02	-2,088.98	2,079.91	1,277.51	1,189.03	88.48	14.439	
11,900.00	7,618.00	7,587.64	7,586.36	69.88	26.64	90.93	-2,089.02	2,079.90	1,233.87	1,145.33	88.54	13.935	
12,000.00	7,618.00	7,585.92	7,584.63	70.39	26.63	90.84	-2,089.05	2,079.88	1,197.01	1,108.45	88.56	13.517	
12,100.00	7,618.00	7,584.20	7,582.91	70.97	26.63	90.76	-2,089.08	2,079.87	1,167.57	1,079.05	88.52	13.191	
12,200.00	7,618.00	7,582.48	7,581.19	71.63	26.62	90.67	-2,089.11	2,079.85	1,146.12	1,057.72	88.41	12.964	
12,300.00	7,618.00	7,580.76	7,579.47	72.35	26.61	90.58	-2,089.14	2,079.84	1,133.12	1,044.90	88.23	12.843	
12,398.17	7,618.00	7,579.07	7,577.78	73.13	26.61	90.50	-2,089.17	2,079.82	1,128.87	1,040.87	87.99	12.829	CC, ES, SF
12,400.00	7,618.00	7,579.04	7,577.75	73.15	26.61	90.49	-2,089.17	2,079.82	1,128.87	1,040.88	87.99	12.830	
12,500.00	7,618.00	7,577.32	7,576.03	74.01	26.60	90.41	-2,089.20	2,079.81	1,133.45	1,045.76	87.69	12.926	
12,600.00	7,618.00	7,575.60	7,574.32	74.93	26.60	90.32	-2,089.23	2,079.79	1,146.76	1,059.41	87.35	13.129	
12,700.00	7,618.00	7,573.88	7,572.60	75.91	26.59	90.23	-2,089.27	2,079.78	1,168.51	1,081.53	86.98	13.434	
12,800.00	7,618.00	7,572.17	7,570.88	76.95	26.58	90.15	-2,089.30	2,079.76	1,198.23	1,111.62	86.61	13.835	
12,900.00	7,618.00	7,570.45	7,569.17	78.04	26.58	90.06	-2,089.33	2,079.75	1,235.35	1,149.10	86.25	14.323	
13,000.00	7,618.00	7,568.74	7,567.45	79.16	26.57	89.97	-2,089.36	2,079.73	1,279.23	1,193.32	85.91	14.891	
13,100.00	7,618.00	7,567.02	7,565.74	80.33	26.57	89.89	-2,089.39	2,079.71	1,329.19	1,243.60	85.60	15.529	
13,200.00	7,618.00	7,565.31	7,564.03	81.54	26.56	89.80	-2,089.42	2,079.70	1,384.59	1,299.27	85.32	16.229	
13,300.00	7,618.00	7,563.60	7,562.32	82.78	26.55	89.71	-2,089.45	2,079.68	1,444.78	1,359.71	85.07	16.983	
13,400.00	7,618.00	7,561.89	7,560.60	84.05	26.55	89.62	-2,089.48	2,079.67	1,509.21	1,424.34	84.86	17.784	
13,500.00	7,618.00	7,560.18	7,558.89	85.35	26.54	89.54	-2,089.51	2,079.65	1,577.34	1,492.65	84.69	18.626	
13,600.00	7,618.00	7,558.47	7,557.18	86.67	26.54	89.45	-2,089.54	2,079.63	1,648.73	1,564.19	84.54	19.503	
13,700.00	7,618.00	7,556.76	7,555.48	88.02	26.53	89.36	-2,089.57	2,079.62	1,722.96	1,638.55	84.41	20.411	
13,800.00	7,618.00	7,555.05	7,553.77	89.38	26.53	89.28	-2,089.61	2,079.60	1,799.69	1,715.38	84.31	21.346	
13,900.00	7,618.00	7,553.34	7,552.06	90.77	26.52	89.19	-2,089.64	2,079.58	1,878.60	1,794.37	84.23	22.304	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,618.00	7,551.64	7,550.36	92.17	26.51	89.10	-2,089.67	2,079.56	1,959.44	1,875.28	84.16	23.282	
14,100.00	7,618.00	7,549.93	7,548.65	93.59	26.51	89.02	-2,089.70	2,079.55	2,041.98	1,957.87	84.11	24.277	
14,200.00	7,618.00	7,548.23	7,546.95	95.02	26.50	88.93	-2,089.73	2,079.53	2,126.02	2,041.94	84.07	25.288	
14,300.00	7,618.00	7,546.52	7,545.24	96.47	26.50	88.85	-2,089.76	2,079.51	2,211.38	2,127.34	84.04	26.313	
14,400.00	7,618.00	7,544.82	7,543.54	97.93	26.49	88.76	-2,089.79	2,079.50	2,297.92	2,213.90	84.02	27.350	
14,500.00	7,618.00	7,543.12	7,541.84	99.41	26.48	88.67	-2,089.82	2,079.48	2,385.51	2,301.51	84.01	28.397	
14,600.00	7,618.00	7,541.42	7,540.14	100.89	26.48	88.59	-2,089.85	2,079.46	2,474.05	2,390.05	84.00	29.453	
14,700.00	7,618.00	7,539.71	7,538.44	102.38	26.47	88.50	-2,089.88	2,079.44	2,563.42	2,479.43	84.00	30.518	
14,800.00	7,618.00	7,538.01	7,536.74	103.89	26.47	88.41	-2,089.91	2,079.42	2,653.56	2,569.56	84.00	31.590	
14,900.00	7,618.00	7,536.32	7,535.04	105.40	26.46	88.33	-2,089.94	2,079.41	2,744.37	2,660.36	84.01	32.668	
15,000.00	7,618.00	7,534.62	7,533.34	106.92	26.45	88.24	-2,089.97	2,079.39	2,835.81	2,751.79	84.02	33.752	
15,100.00	7,618.00	7,532.92	7,531.64	108.45	26.45	88.16	-2,090.00	2,079.37	2,927.80	2,843.77	84.03	34.842	
15,200.00	7,618.00	7,531.22	7,529.95	109.99	26.44	88.07	-2,090.03	2,079.35	3,020.30	2,936.25	84.05	35.936	
15,300.00	7,618.00	7,529.53	7,528.25	111.54	26.44	87.98	-2,090.06	2,079.33	3,113.26	3,029.20	84.06	37.035	
15,400.00	7,618.00	7,527.83	7,526.55	113.09	26.43	87.90	-2,090.09	2,079.31	3,206.64	3,122.56	84.08	38.137	
15,500.00	7,618.00	7,526.14	7,524.86	114.65	26.43	87.81	-2,090.13	2,079.29	3,300.42	3,216.31	84.10	39.242	
15,600.00	7,618.00	7,524.44	7,523.17	116.21	26.42	87.73	-2,090.16	2,079.27	3,394.54	3,310.42	84.13	40.350	
15,700.00	7,618.00	7,522.75	7,521.48	117.78	26.41	87.64	-2,090.19	2,079.25	3,488.99	3,404.84	84.15	41.461	
15,800.00	7,618.00	7,521.06	7,519.78	119.36	26.41	87.56	-2,090.22	2,079.24	3,583.75	3,499.57	84.18	42.574	
15,900.00	7,618.00	7,519.37	7,518.09	120.94	26.40	87.47	-2,090.25	2,079.22	3,678.78	3,594.57	84.20	43.690	
16,000.00	7,618.00	7,517.68	7,516.40	122.53	26.40	87.38	-2,090.28	2,079.20	3,774.06	3,689.83	84.23	44.807	
16,100.00	7,618.00	7,519.95	7,518.68	124.12	26.40	87.50	-2,090.25	2,079.23	3,869.58	3,785.32	84.26	45.923	
16,200.00	7,618.00	7,517.96	7,516.68	125.72	26.40	87.40	-2,090.28	2,079.20	3,965.32	3,881.03	84.29	47.044	
16,300.00	7,618.00	7,515.94	7,514.66	127.32	26.39	87.30	-2,090.31	2,079.18	4,061.27	3,976.95	84.32	48.166	
16,400.00	7,618.00	7,513.89	7,512.62	128.93	26.38	87.19	-2,090.35	2,079.15	4,157.41	4,073.06	84.35	49.288	
16,500.00	7,618.00	7,511.82	7,510.55	130.54	26.38	87.09	-2,090.39	2,079.13	4,253.73	4,169.35	84.38	50.412	
16,600.00	7,618.00	7,509.72	7,508.45	132.15	26.37	86.98	-2,090.42	2,079.10	4,350.21	4,265.80	84.41	51.537	
16,700.00	7,618.00	7,507.60	7,506.33	133.77	26.36	86.88	-2,090.46	2,079.08	4,446.84	4,362.40	84.44	52.662	
16,800.00	7,618.00	7,505.46	7,504.18	135.39	26.35	86.77	-2,090.50	2,079.05	4,543.62	4,459.15	84.47	53.788	
16,900.00	7,618.00	7,503.28	7,502.01	137.01	26.35	86.66	-2,090.53	2,079.02	4,640.54	4,556.04	84.50	54.915	
17,000.00	7,618.00	7,501.08	7,499.81	138.64	26.34	86.55	-2,090.57	2,079.00	4,737.58	4,653.05	84.54	56.041	
17,100.00	7,618.00	7,498.85	7,497.58	140.27	26.33	86.43	-2,090.61	2,078.97	4,834.75	4,750.18	84.57	57.168	
17,200.00	7,618.00	7,496.59	7,495.32	141.91	26.32	86.32	-2,090.65	2,078.94	4,932.02	4,847.42	84.60	58.296	
17,300.00	7,618.00	7,494.31	7,493.04	143.55	26.32	86.20	-2,090.70	2,078.91	5,029.41	4,944.77	84.64	59.423	
17,400.00	7,618.00	7,491.99	7,490.72	145.19	26.31	86.09	-2,090.74	2,078.88	5,126.89	5,042.22	84.67	60.550	
17,500.00	7,618.00	7,489.64	7,488.38	146.83	26.30	85.97	-2,090.78	2,078.85	5,224.46	5,139.76	84.71	61.677	
17,600.00	7,618.00	7,487.27	7,486.00	148.48	26.29	85.85	-2,090.83	2,078.82	5,322.13	5,237.39	84.74	62.804	
17,700.00	7,618.00	7,484.86	7,483.59	150.13	26.28	85.73	-2,090.87	2,078.79	5,419.88	5,335.10	84.78	63.931	
17,800.00	7,618.00	7,482.42	7,481.15	151.78	26.27	85.60	-2,090.92	2,078.76	5,517.71	5,432.90	84.81	65.058	
17,900.00	7,618.00	7,479.95	7,478.68	153.43	26.27	85.48	-2,090.96	2,078.73	5,615.62	5,530.77	84.85	66.184	
18,000.00	7,618.00	7,477.44	7,476.18	155.09	26.26	85.35	-2,091.01	2,078.69	5,713.59	5,628.71	84.88	67.310	
18,100.00	7,618.00	7,474.91	7,473.64	156.75	26.25	85.23	-2,091.06	2,078.66	5,811.64	5,726.72	84.92	68.436	
18,200.00	7,618.00	7,472.33	7,471.07	158.41	26.24	85.10	-2,091.11	2,078.62	5,909.75	5,824.79	84.96	69.561	
18,300.00	7,618.00	7,469.73	7,468.46	160.07	26.23	84.97	-2,091.16	2,078.59	6,007.92	5,922.92	84.99	70.686	
18,400.00	7,618.00	7,467.08	7,465.82	161.74	26.22	84.83	-2,091.21	2,078.55	6,106.15	6,021.12	85.03	71.810	
18,500.00	7,618.00	7,464.40	7,463.14	163.41	26.21	84.70	-2,091.26	2,078.52	6,204.43	6,119.36	85.07	72.933	
18,600.00	7,618.00	7,461.68	7,460.42	165.08	26.20	84.56	-2,091.32	2,078.48	6,302.77	6,217.67	85.11	74.056	
18,700.00	7,618.00	7,458.93	7,457.67	166.75	26.19	84.42	-2,091.37	2,078.44	6,401.16	6,316.02	85.15	75.179	
18,711.30	7,618.00	7,458.62	7,457.36	166.94	26.19	84.41	-2,091.38	2,078.44	6,412.29	6,327.14	85.15	75.305	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	70.15	764.73	2,118.71	2,252.89				
100.00	100.00	80.47	80.46	0.13	0.13	70.15	764.70	2,118.30	2,252.21	2,251.95	0.26	8,582.307	
200.00	200.00	231.52	231.47	0.49	0.64	70.11	765.35	2,114.98	2,250.40	2,249.26	1.14	1,978.171	
300.00	300.00	484.26	483.27	0.85	1.60	69.81	770.37	2,094.79	2,243.29	2,240.85	2.44	918.924	
400.00	400.00	632.22	629.54	1.21	2.22	69.43	778.22	2,074.10	2,231.87	2,228.51	3.36	663.344	
500.00	500.00	737.20	732.67	1.57	2.69	69.05	787.64	2,056.86	2,219.57	2,215.43	4.14	535.670	
600.00	600.00	820.97	814.59	1.93	3.08	68.67	797.52	2,042.45	2,207.59	2,202.74	4.86	454.300	
700.00	700.00	900.21	891.77	2.29	3.47	68.26	808.96	2,028.63	2,196.45	2,190.87	5.58	393.869	
800.00	800.00	976.24	965.54	2.64	3.85	67.82	821.77	2,015.39	2,186.37	2,180.07	6.30	347.048	
900.00	900.00	1,086.64	1,072.16	3.00	4.43	67.11	842.76	1,995.92	2,177.11	2,169.89	7.22	301.691	
1,000.00	999.98	1,178.94	1,161.29	3.36	4.92	9.37	859.76	1,979.07	2,165.60	2,157.55	8.05	269.011	
1,100.00	1,099.84	1,277.21	1,256.39	3.71	5.45	8.82	877.37	1,961.65	2,151.20	2,142.28	8.92	241.169	
1,200.00	1,199.45	1,379.58	1,354.84	4.07	6.03	8.19	897.75	1,942.36	2,133.41	2,123.57	9.84	216.834	
1,300.00	1,298.70	1,472.66	1,443.90	4.44	6.57	7.57	917.70	1,924.08	2,112.39	2,101.66	10.73	196.814	
1,400.00	1,397.47	1,563.27	1,530.43	4.82	7.11	6.96	937.69	1,906.14	2,088.41	2,076.78	11.63	179.627	
1,500.00	1,495.62	1,646.90	1,610.38	5.22	7.61	6.40	956.06	1,889.88	2,061.66	2,049.18	12.48	165.170	
1,600.00	1,593.06	1,741.84	1,701.35	5.65	8.17	5.76	976.43	1,871.88	2,032.09	2,018.69	13.40	151.628	
1,700.00	1,689.64	1,834.11	1,789.84	6.11	8.72	5.12	995.89	1,854.40	1,999.36	1,985.05	14.31	139.742	
1,800.00	1,785.27	1,928.41	1,880.28	6.61	9.28	4.45	1,015.68	1,836.50	1,963.57	1,948.34	15.23	128.939	
1,900.00	1,879.82	2,010.83	1,959.47	7.15	9.76	3.86	1,032.57	1,821.08	1,924.83	1,908.75	16.08	119.713	
2,000.00	1,973.17	2,112.43	2,057.40	7.73	10.34	3.12	1,052.34	1,802.67	1,883.21	1,866.19	17.03	110.595	
2,100.00	2,065.21	2,211.35	2,152.48	8.37	10.93	2.32	1,071.87	1,783.58	1,837.90	1,819.93	17.97	102.255	
2,200.00	2,155.84	2,297.21	2,234.80	9.07	11.44	1.54	1,089.24	1,766.42	1,789.48	1,770.62	18.86	94.873	
2,300.00	2,244.94	2,379.33	2,313.54	9.82	11.93	0.73	1,105.81	1,750.03	1,738.34	1,718.61	19.73	88.096	
2,400.00	2,332.39	2,457.15	2,388.30	10.64	12.40	-0.09	1,121.14	1,734.81	1,684.60	1,664.02	20.58	81.856	
2,500.00	2,418.11	2,530.05	2,458.39	11.53	12.83	-0.94	1,135.49	1,720.82	1,628.49	1,607.09	21.41	76.078	
2,558.91	2,467.74	2,570.42	2,497.19	12.08	13.07	-1.46	1,143.62	1,713.16	1,594.44	1,572.55	21.88	72.857	
2,600.00	2,502.13	2,598.45	2,524.10	12.47	13.23	-1.82	1,149.38	1,707.86	1,570.51	1,548.29	22.22	70.688	
2,700.00	2,585.83	2,669.18	2,592.00	13.45	13.65	-2.78	1,164.14	1,694.65	1,512.81	1,489.76	23.05	65.638	
2,800.00	2,669.53	2,737.69	2,657.81	14.44	14.06	-3.77	1,178.53	1,682.21	1,455.93	1,432.05	23.88	60.966	
2,900.00	2,753.22	2,808.75	2,726.24	15.46	14.47	-4.83	1,193.37	1,670.05	1,400.08	1,375.34	24.74	56.590	
3,000.00	2,836.92	2,896.05	2,810.33	16.48	14.97	-6.23	1,211.39	1,655.09	1,344.61	1,318.92	25.69	52.340	
3,100.00	2,920.62	2,980.80	2,892.05	17.52	15.46	-7.68	1,228.39	1,640.39	1,289.25	1,262.61	26.65	48.386	
3,200.00	3,004.32	3,053.86	2,962.64	18.56	15.87	-9.00	1,242.61	1,628.06	1,234.49	1,206.92	27.57	44.782	
3,300.00	3,088.01	3,139.65	3,045.59	19.61	16.36	-10.67	1,259.21	1,613.76	1,180.44	1,151.87	28.57	41.314	
3,400.00	3,171.71	3,221.58	3,124.47	20.67	16.83	-12.48	1,275.58	1,598.87	1,126.62	1,097.00	29.62	38.037	
3,500.00	3,255.41	3,301.64	3,201.34	21.73	17.31	-14.44	1,292.08	1,583.76	1,073.69	1,042.97	30.72	34.953	
3,600.00	3,339.10	3,382.48	3,279.14	22.80	17.78	-16.56	1,308.08	1,568.71	1,021.55	989.68	31.87	32.052	
3,700.00	3,422.80	3,458.09	3,351.99	23.87	18.22	-18.69	1,322.88	1,554.89	970.71	937.64	33.07	29.356	
3,800.00	3,506.50	3,533.81	3,424.76	24.94	18.67	-21.06	1,338.24	1,540.66	921.50	887.15	34.35	26.823	
3,900.00	3,590.20	3,612.49	3,500.18	26.02	19.15	-23.77	1,354.65	1,525.43	874.15	838.38	35.76	24.443	
4,000.00	3,673.89	3,690.18	3,574.83	27.10	19.61	-26.63	1,370.45	1,510.80	828.78	791.51	37.26	22.243	
4,100.00	3,757.59	3,767.34	3,649.17	28.18	20.06	-29.65	1,385.80	1,496.94	785.85	747.00	38.85	20.226	
4,200.00	3,841.29	3,844.00	3,722.94	29.26	20.51	-32.92	1,401.29	1,483.00	745.80	705.24	40.56	18.388	
4,300.00	3,924.99	3,920.72	3,796.68	30.35	20.96	-36.46	1,417.05	1,468.87	709.15	666.76	42.39	16.731	
4,400.00	4,008.68	3,999.45	3,872.33	31.44	21.43	-40.34	1,433.27	1,454.34	676.34	632.02	44.32	15.259	
4,500.00	4,092.38	4,081.65	3,951.44	32.52	21.91	-44.64	1,449.89	1,439.40	647.67	601.31	46.36	13.971	
4,600.00	4,176.08	4,161.15	4,028.11	33.62	22.37	-49.00	1,465.45	1,425.26	623.45	575.06	48.38	12.886	
4,700.00	4,259.77	4,238.72	4,102.80	34.71	22.83	-53.48	1,480.74	1,410.98	604.77	554.42	50.35	12.010	
4,800.00	4,343.47	4,318.07	4,179.14	35.80	23.29	-58.25	1,496.34	1,395.96	592.16	539.91	52.25	11.333	
4,900.00	4,427.17	4,401.87	4,259.89	36.89	23.78	-63.39	1,512.21	1,380.13	585.51	531.45	54.06	10.832	
4,945.70	4,465.42	4,432.78	4,289.69	37.39	23.96	-65.30	1,518.09	1,374.41	584.71	530.02	54.69	10.691	CC, ES

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,510.87	4,471.36	4,326.86	37.99	24.19	-67.65	1,525.69	1,367.40	585.84	530.43	55.41	10.572	
5,100.00	4,594.56	4,548.19	4,400.79	39.08	24.64	-72.31	1,541.21	1,353.40	593.39	536.71	56.68	10.470	SF
5,200.00	4,678.26	4,631.56	4,480.98	40.18	25.13	-77.32	1,557.46	1,337.36	607.19	549.32	57.87	10.492	
5,300.00	4,761.96	4,732.17	4,578.29	41.28	25.69	-83.11	1,575.39	1,319.26	625.51	566.29	59.21	10.564	
5,400.00	4,845.66	4,838.58	4,682.37	42.37	26.22	-88.84	1,591.04	1,303.62	645.60	585.14	60.47	10.677	
5,500.00	4,929.35	4,934.62	4,776.91	43.47	26.66	-93.74	1,602.73	1,291.36	668.06	606.64	61.42	10.876	
5,600.00	5,013.05	5,025.07	4,866.22	44.57	27.05	-98.06	1,612.83	1,281.29	693.43	631.20	62.23	11.143	
5,700.00	5,096.75	5,133.03	4,973.17	45.67	27.49	-102.87	1,623.61	1,271.25	721.02	657.88	63.14	11.419	
5,800.00	5,180.45	5,251.50	5,091.14	46.77	27.90	-107.79	1,631.68	1,264.22	748.20	684.21	63.99	11.692	
5,900.00	5,264.14	5,357.38	5,196.88	47.87	28.21	-111.94	1,635.77	1,260.76	775.36	710.73	64.63	11.997	
6,000.00	5,347.84	5,460.20	5,299.67	48.97	28.46	-115.80	1,637.19	1,259.33	803.06	737.92	65.15	12.327	
6,100.00	5,431.54	5,552.70	5,392.18	50.07	28.67	-119.09	1,637.16	1,259.19	832.07	766.51	65.56	12.692	
6,200.00	5,515.23	5,638.47	5,477.94	51.17	28.86	-121.96	1,637.15	1,259.63	863.09	797.18	65.91	13.094	
6,300.00	5,598.93	5,720.29	5,559.77	52.27	29.04	-124.54	1,637.07	1,259.97	896.39	830.17	66.22	13.536	
6,400.00	5,682.63	5,802.74	5,642.22	53.38	29.23	-127.00	1,636.93	1,260.14	931.85	865.34	66.51	14.012	
6,500.00	5,766.33	5,884.02	5,723.49	54.48	29.41	-129.28	1,636.86	1,260.16	969.25	902.48	66.77	14.516	
6,600.00	5,850.02	5,964.37	5,803.84	55.58	29.61	-131.39	1,636.93	1,259.97	1,008.48	941.45	67.03	15.045	
6,700.00	5,933.72	6,049.97	5,889.44	56.68	29.82	-133.48	1,637.30	1,259.67	1,049.26	981.94	67.32	15.586	
6,800.00	6,017.42	6,134.55	5,974.02	57.79	30.03	-135.41	1,637.64	1,259.67	1,090.96	1,023.35	67.61	16.136	
6,900.00	6,101.12	6,218.91	6,058.38	58.89	30.25	-137.20	1,638.28	1,259.53	1,133.91	1,066.00	67.91	16.697	
7,000.00	6,184.81	6,309.68	6,149.15	59.99	30.48	-138.97	1,639.21	1,259.89	1,177.36	1,109.09	68.27	17.245	
7,100.00	6,268.51	6,394.31	6,233.77	61.10	30.69	-140.52	1,640.21	1,260.42	1,221.47	1,152.87	68.60	17.805	
7,200.00	6,352.21	6,481.64	6,321.08	62.20	30.92	-142.01	1,641.07	1,260.99	1,266.30	1,197.33	68.96	18.362	
7,300.00	6,435.90	6,581.45	6,420.86	63.31	31.17	-143.57	1,643.02	1,262.68	1,310.88	1,241.44	69.44	18.878	
7,400.00	6,519.60	6,652.20	6,491.60	64.41	31.35	-144.62	1,644.02	1,263.75	1,356.23	1,286.50	69.72	19.451	
7,500.00	6,603.30	6,736.26	6,575.65	65.51	31.57	-145.80	1,645.02	1,264.53	1,402.62	1,332.51	70.11	20.007	
7,600.00	6,687.00	6,829.16	6,668.53	66.62	31.81	-147.02	1,646.38	1,265.65	1,449.26	1,378.69	70.57	20.537	
7,700.00	6,770.69	6,923.82	6,763.17	67.72	32.04	-148.25	1,646.39	1,267.52	1,495.80	1,424.78	71.01	21.063	
7,800.00	6,854.39	6,979.98	6,819.32	68.83	32.18	-148.94	1,646.40	1,268.48	1,543.09	1,471.88	71.21	21.669	
7,900.00	6,938.09	7,035.00	6,874.34	69.93	32.33	-149.57	1,646.65	1,267.95	1,592.74	1,521.35	71.40	22.309	
7,933.18	6,965.86	7,052.96	6,892.29	70.30	32.38	-149.77	1,646.78	1,267.55	1,609.63	1,538.17	71.46	22.526	
7,950.00	6,980.00	7,071.68	6,911.00	70.49	32.43	-153.28	1,646.93	1,267.19	1,618.19	1,546.61	71.57	22.609	
8,000.00	7,022.68	7,128.55	6,967.87	71.01	32.59	-164.18	1,647.46	1,266.42	1,643.41	1,571.46	71.95	22.842	
8,050.00	7,066.06	7,174.74	7,014.06	71.51	32.72	-175.62	1,647.89	1,266.04	1,668.23	1,595.98	72.25	23.090	
8,100.00	7,109.82	7,221.29	7,060.60	71.97	32.85	172.65	1,648.18	1,265.76	1,692.61	1,620.03	72.57	23.323	
8,150.00	7,153.63	7,267.58	7,106.89	72.38	32.97	161.14	1,648.43	1,265.57	1,716.35	1,643.44	72.91	23.541	
8,200.00	7,197.14	7,313.60	7,152.91	72.74	33.10	150.34	1,648.72	1,265.44	1,739.32	1,666.05	73.26	23.741	
8,250.00	7,240.04	7,362.01	7,201.32	73.05	33.23	140.66	1,648.98	1,265.42	1,761.38	1,687.73	73.65	23.916	
8,300.00	7,281.99	7,409.85	7,249.16	73.31	33.36	132.25	1,649.09	1,265.57	1,782.41	1,708.37	74.05	24.071	
8,350.00	7,322.67	7,449.49	7,288.80	73.52	33.46	124.99	1,649.12	1,265.76	1,802.45	1,728.06	74.40	24.227	
8,400.00	7,361.77	7,487.39	7,326.70	73.68	33.56	118.86	1,649.16	1,265.92	1,821.57	1,746.81	74.76	24.366	
8,450.00	7,399.01	7,524.05	7,363.36	73.78	33.66	113.74	1,649.17	1,266.05	1,839.74	1,764.60	75.13	24.486	
8,500.00	7,434.08	7,559.31	7,398.62	73.85	33.75	109.47	1,649.11	1,266.17	1,856.96	1,781.44	75.52	24.589	
8,550.00	7,466.74	7,592.29	7,431.60	73.87	33.84	105.89	1,648.98	1,266.30	1,873.25	1,797.34	75.91	24.676	
8,600.00	7,496.72	7,622.75	7,462.06	73.85	33.91	102.89	1,648.81	1,266.42	1,888.65	1,812.33	76.31	24.748	
8,650.00	7,523.80	7,650.26	7,489.57	73.79	33.98	100.37	1,648.68	1,266.53	1,903.18	1,826.46	76.72	24.807	
8,700.00	7,547.77	7,674.60	7,513.91	73.70	34.05	98.22	1,648.58	1,266.63	1,916.88	1,839.75	77.13	24.852	
8,750.00	7,568.45	7,695.58	7,534.89	73.58	34.10	96.38	1,648.51	1,266.71	1,929.81	1,852.26	77.55	24.886	
8,800.00	7,585.69	7,714.14	7,553.45	73.43	34.15	94.84	1,648.44	1,266.80	1,941.96	1,863.99	77.97	24.906	
8,850.00	7,599.35	7,729.09	7,568.39	73.26	34.18	93.50	1,648.37	1,266.87	1,953.37	1,874.98	78.39	24.917	
8,900.00	7,609.33	7,740.17	7,579.48	73.07	34.21	92.35	1,648.30	1,266.93	1,964.04	1,885.23	78.82	24.919	
8,950.00	7,615.55	7,747.27	7,586.57	72.87	34.23	91.35	1,648.25	1,266.97	1,973.96	1,894.73	79.23	24.913	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	7,750.27	7,589.57	72.65	34.24	90.50	1,648.23	1,266.98	1,983.11	1,903.47	79.64	24.900	
9,006.60	7,618.00	7,750.35	7,589.66	72.62	34.24	90.40	1,648.23	1,266.98	1,984.26	1,904.57	79.70	24.898	
9,100.00	7,618.00	7,751.07	7,590.37	72.22	34.24	90.42	1,648.23	1,266.99	2,002.52	1,922.09	80.44	24.896	
9,200.00	7,618.00	7,751.84	7,591.14	71.80	34.24	90.44	1,648.22	1,266.99	2,026.67	1,945.48	81.19	24.961	
9,300.00	7,618.00	7,752.62	7,591.93	71.41	34.24	90.47	1,648.22	1,267.00	2,055.40	1,973.50	81.91	25.095	
9,400.00	7,618.00	7,753.42	7,592.72	71.04	34.25	90.49	1,648.21	1,267.00	2,088.53	2,005.96	82.57	25.293	
9,500.00	7,618.00	7,754.23	7,593.53	70.68	34.25	90.51	1,648.21	1,267.01	2,125.85	2,042.67	83.19	25.555	
9,600.00	7,618.00	7,755.05	7,594.36	70.35	34.25	90.54	1,648.20	1,267.01	2,167.15	2,083.40	83.76	25.875	
9,700.00	7,618.00	7,755.89	7,595.20	70.04	34.25	90.56	1,648.19	1,267.02	2,212.20	2,127.93	84.27	26.250	
9,800.00	7,618.00	7,756.74	7,596.05	69.75	34.26	90.59	1,648.19	1,267.02	2,260.78	2,176.03	84.74	26.678	
9,900.00	7,618.00	7,757.61	7,596.91	69.47	34.26	90.61	1,648.18	1,267.03	2,312.66	2,227.49	85.17	27.154	
10,000.00	7,618.00	7,758.49	7,597.79	69.22	34.26	90.64	1,648.17	1,267.03	2,367.63	2,282.08	85.55	27.675	
10,100.00	7,618.00	7,759.38	7,598.69	68.99	34.26	90.67	1,648.17	1,267.04	2,425.48	2,339.59	85.89	28.239	
10,200.00	7,618.00	7,760.30	7,599.60	68.78	34.26	90.69	1,648.16	1,267.04	2,486.01	2,399.81	86.20	28.841	
10,300.00	7,618.00	7,761.22	7,600.53	68.59	34.27	90.72	1,648.15	1,267.05	2,549.02	2,462.55	86.47	29.480	
10,400.00	7,618.00	7,762.17	7,601.47	68.42	34.27	90.75	1,648.15	1,267.05	2,614.34	2,527.64	86.71	30.152	
10,500.00	7,618.00	7,763.13	7,602.43	68.28	34.27	90.77	1,648.14	1,267.06	2,681.80	2,594.88	86.92	30.854	
10,600.00	7,618.00	7,764.10	7,603.41	68.16	34.27	90.80	1,648.13	1,267.07	2,751.24	2,664.14	87.10	31.586	
10,700.00	7,618.00	7,765.10	7,604.40	68.06	34.28	90.83	1,648.12	1,267.07	2,822.52	2,735.25	87.27	32.343	
10,800.00	7,618.00	7,766.11	7,605.41	67.99	34.28	90.86	1,648.12	1,267.08	2,895.49	2,808.08	87.41	33.126	
10,900.00	7,618.00	7,767.14	7,606.45	67.95	34.28	90.89	1,648.11	1,267.08	2,970.04	2,882.51	87.53	33.930	
11,000.00	7,618.00	7,768.19	7,607.50	67.95	34.28	90.92	1,648.10	1,267.09	3,046.05	2,958.41	87.64	34.756	
11,100.00	7,618.00	7,769.26	7,608.57	67.97	34.29	90.95	1,648.09	1,267.10	3,123.41	3,035.67	87.73	35.601	
11,200.00	7,618.00	7,770.35	7,609.66	68.04	34.29	90.99	1,648.08	1,267.11	3,202.02	3,114.21	87.81	36.464	
11,300.00	7,618.00	7,771.47	7,610.77	68.15	34.29	91.02	1,648.07	1,267.11	3,281.80	3,193.92	87.88	37.343	
11,400.00	7,618.00	7,772.60	7,611.90	68.30	34.30	91.05	1,648.06	1,267.12	3,362.66	3,274.72	87.94	38.238	
11,500.00	7,618.00	7,773.76	7,613.06	68.50	34.30	91.09	1,648.05	1,267.13	3,444.52	3,356.53	87.99	39.147	
11,600.00	7,618.00	7,774.93	7,614.24	68.75	34.30	91.12	1,648.04	1,267.13	3,527.32	3,439.29	88.03	40.070	
11,700.00	7,618.00	7,776.13	7,615.44	69.06	34.30	91.16	1,648.03	1,267.14	3,610.99	3,522.92	88.06	41.005	
11,800.00	7,618.00	7,777.36	7,616.66	69.44	34.31	91.19	1,648.02	1,267.15	3,695.47	3,607.38	88.09	41.951	
11,900.00	7,618.00	7,778.61	7,617.91	69.88	34.31	91.23	1,648.01	1,267.16	3,780.70	3,692.59	88.11	42.908	
12,000.00	7,618.00	7,779.89	7,619.19	70.39	34.31	91.27	1,648.00	1,267.17	3,866.65	3,778.52	88.13	43.875	
12,100.00	7,618.00	7,781.19	7,620.49	70.97	34.32	91.30	1,647.98	1,267.18	3,953.25	3,865.11	88.14	44.851	
12,200.00	7,618.00	7,782.52	7,621.82	71.63	34.32	91.34	1,647.97	1,267.18	4,040.48	3,952.32	88.15	45.835	
12,300.00	7,618.00	7,783.88	7,623.18	72.35	34.32	91.38	1,647.96	1,267.19	4,128.28	4,040.12	88.16	46.828	
12,400.00	7,618.00	7,785.26	7,624.57	73.15	34.33	91.42	1,647.95	1,267.20	4,216.63	4,128.46	88.16	47.828	
12,500.00	7,618.00	7,786.68	7,625.98	74.01	34.33	91.47	1,647.93	1,267.21	4,305.48	4,217.32	88.16	48.835	
12,600.00	7,618.00	7,788.13	7,627.43	74.93	34.34	91.51	1,647.92	1,267.22	4,394.81	4,306.65	88.16	49.849	
12,700.00	7,618.00	7,789.61	7,628.91	75.91	34.34	91.55	1,647.91	1,267.23	4,484.60	4,396.44	88.16	50.869	
12,800.00	7,618.00	7,791.12	7,630.42	76.95	34.34	91.60	1,647.89	1,267.24	4,574.81	4,486.65	88.16	51.894	
12,900.00	7,618.00	7,792.67	7,631.97	78.04	34.35	91.64	1,647.87	1,267.25	4,665.41	4,577.26	88.15	52.925	
13,000.00	7,618.00	7,794.25	7,633.55	79.16	34.35	91.69	1,647.86	1,267.26	4,756.39	4,668.25	88.15	53.961	
13,100.00	7,618.00	7,795.87	7,635.17	80.33	34.36	91.73	1,647.84	1,267.28	4,847.73	4,759.59	88.14	55.001	
13,200.00	7,618.00	7,797.53	7,636.83	81.54	34.36	91.78	1,647.83	1,267.29	4,939.40	4,851.27	88.13	56.046	
13,300.00	7,618.00	7,799.22	7,638.52	82.78	34.36	91.83	1,647.81	1,267.30	5,031.39	4,943.27	88.12	57.094	
13,400.00	7,618.00	7,800.96	7,640.26	84.05	34.37	91.88	1,647.79	1,267.31	5,123.68	5,035.57	88.12	58.147	
13,500.00	7,618.00	7,802.74	7,642.04	85.35	34.37	91.94	1,647.77	1,267.32	5,216.26	5,128.15	88.11	59.203	
13,600.00	7,618.00	7,804.56	7,643.86	86.67	34.38	91.99	1,647.75	1,267.34	5,309.10	5,221.00	88.10	60.262	
13,700.00	7,618.00	7,806.43	7,645.73	88.02	34.38	92.04	1,647.73	1,267.35	5,402.20	5,314.10	88.09	61.324	
13,800.00	7,618.00	7,808.34	7,647.64	89.38	34.39	92.10	1,647.71	1,267.37	5,495.54	5,407.45	88.09	62.389	
13,900.00	7,618.00	7,810.30	7,649.60	90.77	34.39	92.16	1,647.69	1,267.38	5,589.11	5,501.03	88.08	63.456	
14,000.00	7,618.00	7,812.32	7,651.62	92.17	34.40	92.22	1,647.66	1,267.40	5,682.89	5,594.82	88.07	64.527	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,618.00	7,802.96	7,642.26	93.59	34.37	91.94	1,647.77	1,267.32	5,776.90	5,688.85	88.05	65.610	
14,200.00	7,618.00	7,803.79	7,643.09	95.02	34.38	91.97	1,647.76	1,267.33	5,871.10	5,783.06	88.04	66.686	
14,300.00	7,618.00	7,804.62	7,643.92	96.47	34.38	91.99	1,647.76	1,267.33	5,965.48	5,877.45	88.03	67.764	
14,400.00	7,618.00	7,805.44	7,644.74	97.93	34.38	92.01	1,647.75	1,267.34	6,060.05	5,972.02	88.03	68.844	
14,500.00	7,618.00	7,806.26	7,645.56	99.41	34.38	92.04	1,647.74	1,267.34	6,154.79	6,066.77	88.02	69.925	
14,600.00	7,618.00	7,807.08	7,646.38	100.89	34.38	92.06	1,647.73	1,267.35	6,249.69	6,161.67	88.01	71.008	
14,700.00	7,618.00	7,807.89	7,647.20	102.38	34.39	92.09	1,647.72	1,267.35	6,344.74	6,256.73	88.01	72.092	
14,800.00	7,618.00	7,808.71	7,648.01	103.89	34.39	92.11	1,647.72	1,267.36	6,439.95	6,351.95	88.00	73.178	
14,900.00	7,618.00	7,809.52	7,648.82	105.40	34.39	92.13	1,647.71	1,267.36	6,535.30	6,447.30	88.00	74.265	
15,000.00	7,618.00	7,810.33	7,649.63	106.92	34.39	92.16	1,647.70	1,267.37	6,630.79	6,542.79	88.00	75.353	
15,100.00	7,618.00	7,811.13	7,650.43	108.45	34.39	92.18	1,647.69	1,267.37	6,726.40	6,638.41	87.99	76.442	
15,200.00	7,618.00	7,811.94	7,651.24	109.99	34.40	92.21	1,647.68	1,267.38	6,822.15	6,734.16	87.99	77.532	
15,300.00	7,618.00	7,812.74	7,652.04	111.54	34.40	92.23	1,647.68	1,267.38	6,918.01	6,830.02	87.99	78.623	
15,400.00	7,618.00	7,813.54	7,652.84	113.09	34.40	92.25	1,647.67	1,267.39	7,013.99	6,926.00	87.99	79.714	
15,500.00	7,618.00	7,814.33	7,653.64	114.65	34.40	92.28	1,647.66	1,267.39	7,110.08	7,022.09	87.99	80.806	
15,600.00	7,618.00	7,815.13	7,654.43	116.21	34.40	92.30	1,647.65	1,267.40	7,206.28	7,118.29	87.99	81.899	
15,700.00	7,618.00	7,815.92	7,655.22	117.78	34.41	92.32	1,647.65	1,267.40	7,302.57	7,214.58	87.99	82.992	
15,800.00	7,618.00	7,816.71	7,656.01	119.36	34.41	92.34	1,647.64	1,267.41	7,398.97	7,310.98	87.99	84.085	
15,900.00	7,618.00	7,817.50	7,656.80	120.94	34.41	92.37	1,647.63	1,267.41	7,495.46	7,407.47	88.00	85.179	
16,000.00	7,618.00	7,818.28	7,657.58	122.53	34.41	92.39	1,647.62	1,267.42	7,592.04	7,504.04	88.00	86.273	
16,100.00	7,618.00	7,819.06	7,658.37	124.12	34.41	92.41	1,647.62	1,267.42	7,688.71	7,600.71	88.00	87.368	
16,200.00	7,618.00	7,819.84	7,659.15	125.72	34.42	92.44	1,647.61	1,267.43	7,785.46	7,697.46	88.01	88.462	
16,300.00	7,618.00	7,820.62	7,659.92	127.32	34.42	92.46	1,647.60	1,267.43	7,882.30	7,794.28	88.02	89.556	
16,400.00	7,618.00	7,821.40	7,660.70	128.93	34.42	92.48	1,647.59	1,267.44	7,979.21	7,891.19	88.02	90.651	
16,500.00	7,618.00	7,822.17	7,661.47	130.54	34.42	92.50	1,647.59	1,267.44	8,076.20	7,988.17	88.03	91.745	
16,600.00	7,618.00	7,822.94	7,662.24	132.15	34.42	92.53	1,647.58	1,267.44	8,173.26	8,085.22	88.04	92.839	
16,700.00	7,618.00	7,823.71	7,663.01	133.77	34.43	92.55	1,647.57	1,267.45	8,270.39	8,182.34	88.05	93.933	
16,800.00	7,618.00	7,824.48	7,663.78	135.39	34.43	92.57	1,647.56	1,267.45	8,367.58	8,279.53	88.05	95.027	
16,900.00	7,618.00	7,825.24	7,664.54	137.01	34.43	92.59	1,647.56	1,267.46	8,464.84	8,376.78	88.07	96.120	
17,000.00	7,618.00	7,826.00	7,665.30	138.64	34.43	92.62	1,647.55	1,267.46	8,562.17	8,474.09	88.08	97.213	
17,100.00	7,618.00	7,826.76	7,666.06	140.27	34.43	92.64	1,647.54	1,267.47	8,659.56	8,571.47	88.09	98.306	
17,200.00	7,618.00	7,827.52	7,666.82	141.91	34.44	92.66	1,647.54	1,267.47	8,757.00	8,668.90	88.10	99.398	
17,300.00	7,618.00	7,828.28	7,667.58	143.55	34.44	92.68	1,647.53	1,267.47	8,854.50	8,766.39	88.11	100.490	
17,400.00	7,618.00	7,829.03	7,668.33	145.19	34.44	92.71	1,647.52	1,267.48	8,952.06	8,863.93	88.13	101.581	
17,500.00	7,618.00	7,829.78	7,669.08	146.83	34.44	92.73	1,647.51	1,267.48	9,049.67	8,961.53	88.14	102.672	
17,600.00	7,618.00	7,830.53	7,669.83	148.48	34.44	92.75	1,647.51	1,267.49	9,147.33	9,059.17	88.16	103.762	
17,700.00	7,618.00	7,831.28	7,670.58	150.13	34.45	92.77	1,647.50	1,267.49	9,245.04	9,156.87	88.17	104.852	
17,800.00	7,618.00	7,832.02	7,671.32	151.78	34.45	92.79	1,647.49	1,267.49	9,342.80	9,254.61	88.19	105.940	
17,900.00	7,618.00	7,832.76	7,672.06	153.43	34.45	92.81	1,647.49	1,267.50	9,440.61	9,352.40	88.21	107.028	
18,000.00	7,618.00	7,833.50	7,672.80	155.09	34.45	92.84	1,647.48	1,267.50	9,538.46	9,450.24	88.22	108.116	
18,100.00	7,618.00	7,834.24	7,673.54	156.75	34.45	92.86	1,647.47	1,267.51	9,636.36	9,548.11	88.24	109.202	
18,200.00	7,618.00	7,834.98	7,674.28	158.41	34.45	92.88	1,647.47	1,267.51	9,734.30	9,646.03	88.26	110.288	
18,300.00	7,618.00	7,835.71	7,675.01	160.07	34.46	92.90	1,647.46	1,267.51	9,832.28	9,743.99	88.28	111.372	
18,400.00	7,618.00	7,836.44	7,675.74	161.74	34.46	92.92	1,647.45	1,267.52	9,930.30	9,841.99	88.30	112.456	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	133.77	-2,062.14	2,152.56	2,981.23				
100.00	100.00	73.30	73.30	0.13	0.12	133.77	-2,062.05	2,152.39	2,980.78	2,980.53	0.25	N/A	
200.00	200.00	194.53	194.53	0.49	0.46	133.77	-2,061.25	2,151.65	2,979.88	2,978.93	0.95	3,126.852	
300.00	300.00	874.17	866.70	0.85	3.22	132.70	-1,974.50	2,139.47	2,974.30	2,970.31	3.99	745.220	
400.00	400.00	1,205.11	1,181.39	1.21	5.11	131.46	-1,874.21	2,121.68	2,948.25	2,942.38	5.87	502.045	
500.00	500.00	1,359.14	1,324.82	1.57	6.12	130.73	-1,818.90	2,112.24	2,919.13	2,912.15	6.98	418.086	
600.00	600.00	1,507.12	1,461.62	1.93	7.14	129.98	-1,763.27	2,102.74	2,889.15	2,881.05	8.10	356.753	
700.00	700.00	1,625.23	1,569.79	2.29	8.00	129.34	-1,716.59	2,094.43	2,857.39	2,848.30	9.09	314.313	
800.00	800.00	1,719.25	1,655.63	2.64	8.70	128.80	-1,678.76	2,088.10	2,825.62	2,815.65	9.97	283.327	
900.00	900.00	1,806.27	1,735.09	3.00	9.34	128.29	-1,643.83	2,081.87	2,793.86	2,783.03	10.83	258.016	
1,000.00	999.98	1,873.00	1,796.24	3.36	9.83	71.36	-1,617.51	2,077.40	2,762.53	2,750.95	11.58	238.600	
1,100.00	1,099.84	1,979.64	1,894.06	3.71	10.62	71.49	-1,575.63	2,070.36	2,730.55	2,718.01	12.55	217.595	
1,200.00	1,199.45	2,041.54	1,951.05	4.07	11.07	71.90	-1,551.84	2,066.07	2,697.93	2,684.65	13.28	203.223	
1,300.00	1,298.70	2,141.29	2,043.23	4.44	11.79	72.26	-1,514.40	2,058.96	2,664.84	2,650.64	14.21	187.588	
1,400.00	1,397.47	2,260.35	2,152.80	4.82	12.66	72.67	-1,468.63	2,050.27	2,630.09	2,614.84	15.25	172.438	
1,500.00	1,495.62	2,365.87	2,249.56	5.22	13.45	73.22	-1,427.34	2,042.05	2,593.58	2,577.34	16.25	159.652	
1,600.00	1,593.06	2,438.00	2,315.81	5.65	13.98	73.91	-1,399.40	2,036.32	2,556.32	2,539.24	17.08	149.690	
1,700.00	1,689.64	2,511.78	2,383.89	6.11	14.52	74.70	-1,371.56	2,030.52	2,518.88	2,500.95	17.93	140.479	
1,800.00	1,785.27	2,638.73	2,500.75	6.61	15.45	75.60	-1,322.87	2,021.37	2,480.71	2,461.63	19.08	129.999	
1,900.00	1,879.82	2,706.33	2,562.62	7.15	15.96	76.52	-1,295.96	2,017.14	2,441.39	2,421.40	19.99	122.157	
2,000.00	1,973.17	2,806.14	2,654.19	7.73	16.71	77.61	-1,256.79	2,010.65	2,401.58	2,380.50	21.07	113.959	
2,100.00	2,065.21	2,932.56	2,770.41	8.37	17.65	79.02	-1,208.25	1,999.79	2,360.17	2,337.88	22.29	105.867	
2,200.00	2,155.84	3,038.51	2,867.18	9.07	18.46	80.49	-1,166.17	1,990.35	2,317.20	2,293.74	23.46	98.780	
2,300.00	2,244.94	3,158.02	2,975.74	9.82	19.39	82.19	-1,117.29	1,979.87	2,273.30	2,248.58	24.73	91.937	
2,400.00	2,332.39	3,240.74	3,050.42	10.64	20.05	83.80	-1,082.61	1,972.07	2,228.01	2,202.13	25.88	86.091	
2,500.00	2,418.11	3,304.48	3,108.29	11.53	20.55	85.35	-1,056.51	1,966.31	2,183.52	2,156.51	27.00	80.862	
2,558.91	2,467.74	3,347.46	3,147.38	12.08	20.88	86.35	-1,039.03	1,962.63	2,157.66	2,129.95	27.71	77.875	
2,600.00	2,502.13	3,377.44	3,174.66	12.47	21.11	86.66	-1,026.83	1,960.18	2,139.77	2,111.57	28.21	75.863	
2,700.00	2,585.83	3,443.81	3,235.14	13.45	21.63	87.35	-999.98	1,955.06	2,097.03	2,067.61	29.42	71.286	
2,800.00	2,669.53	3,523.19	3,307.72	14.44	22.23	88.21	-968.36	1,949.22	2,055.39	2,024.70	30.69	66.980	
2,900.00	2,753.22	3,634.25	3,409.20	15.46	23.08	89.48	-924.15	1,940.29	2,013.93	1,981.88	32.05	62.832	
3,000.00	2,836.92	3,715.24	3,482.57	16.48	23.72	90.39	-890.38	1,934.27	1,972.07	1,938.72	33.35	59.130	
3,100.00	2,920.62	3,784.39	3,545.45	17.52	24.26	91.21	-862.02	1,929.45	1,931.50	1,896.87	34.63	55.777	
3,200.00	3,004.32	3,859.50	3,614.05	18.56	24.83	92.14	-831.91	1,924.02	1,892.03	1,856.11	35.92	52.675	
3,300.00	3,088.01	3,928.29	3,677.17	19.61	25.35	93.03	-805.06	1,918.89	1,853.84	1,816.64	37.19	49.846	
3,400.00	3,171.71	4,013.07	3,755.15	20.67	25.98	94.18	-772.35	1,912.81	1,816.86	1,778.37	38.49	47.206	
3,500.00	3,255.41	4,101.51	3,836.23	21.73	26.65	95.38	-737.48	1,907.13	1,780.44	1,740.65	39.79	44.748	
3,600.00	3,339.10	4,190.51	3,917.85	22.80	27.32	96.64	-702.50	1,901.07	1,744.70	1,703.62	41.08	42.474	
3,700.00	3,422.80	4,264.95	3,986.16	23.87	27.87	97.75	-673.45	1,895.65	1,709.79	1,667.45	42.34	40.379	
3,800.00	3,506.50	4,327.08	4,043.52	24.94	28.33	98.71	-649.97	1,891.27	1,676.85	1,633.25	43.60	38.460	
3,900.00	3,590.20	4,410.19	4,120.47	26.02	28.93	100.02	-619.07	1,885.69	1,645.55	1,600.70	44.84	36.695	
4,000.00	3,673.89	4,501.01	4,204.55	27.10	29.59	101.52	-585.34	1,879.40	1,615.25	1,569.18	46.07	35.062	
4,100.00	3,757.59	4,588.30	4,285.34	28.18	30.23	103.01	-552.90	1,872.95	1,585.86	1,538.59	47.27	33.547	
4,200.00	3,841.29	4,682.57	4,372.42	29.26	30.92	104.65	-517.42	1,866.25	1,557.44	1,508.98	48.45	32.142	
4,300.00	3,924.99	4,762.52	4,446.16	30.35	31.50	106.07	-487.01	1,860.74	1,530.03	1,480.39	49.64	30.820	
4,400.00	4,008.68	4,834.98	4,513.11	31.44	32.03	107.38	-459.63	1,856.40	1,504.48	1,453.65	50.83	29.596	
4,500.00	4,092.38	4,892.00	4,566.06	32.52	32.44	108.45	-438.85	1,852.53	1,481.28	1,429.25	52.03	28.469	
4,600.00	4,176.08	4,952.59	4,622.77	33.62	32.85	109.64	-417.99	1,848.14	1,461.10	1,407.91	53.19	27.470	
4,700.00	4,259.77	5,007.69	4,674.83	34.71	33.21	110.75	-400.37	1,844.20	1,444.52	1,390.19	54.33	26.588	
4,800.00	4,343.47	5,069.47	4,733.54	35.80	33.60	112.00	-381.57	1,840.20	1,431.20	1,375.76	55.44	25.817	
4,900.00	4,427.17	5,130.13	4,791.49	36.89	33.96	113.23	-364.00	1,836.71	1,421.08	1,364.56	56.52	25.145	
5,000.00	4,510.87	5,191.29	4,850.24	37.99	34.32	114.49	-347.30	1,833.47	1,414.28	1,356.71	57.57	24.567	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	5,254.46	4,911.21	39.08	34.67	115.79	-331.03	1,830.39	1,410.74	1,352.14	58.59	24.076	
5,155.11	4,640.69	5,286.69	4,942.41	39.69	34.84	116.45	-323.12	1,828.94	1,410.18	1,351.04	59.14	23.843	
5,200.00	4,678.26	5,311.27	4,966.29	40.18	34.96	116.95	-317.33	1,827.94	1,410.56	1,350.98	59.58	23.674	
5,300.00	4,761.96	5,364.00	5,017.68	41.28	35.23	118.02	-305.69	1,826.15	1,414.10	1,353.57	60.53	23.364	
5,400.00	4,845.66	5,418.73	5,071.30	42.37	35.48	119.12	-294.79	1,824.74	1,421.38	1,359.96	61.42	23.141	
5,500.00	4,929.35	5,459.00	5,110.91	43.47	35.66	119.91	-287.62	1,823.93	1,432.52	1,370.31	62.22	23.024	
5,600.00	5,013.05	5,523.96	5,175.07	44.57	35.91	121.19	-277.55	1,822.82	1,447.17	1,384.11	63.06	22.950	
5,700.00	5,096.75	5,580.78	5,231.40	45.67	36.12	122.28	-270.20	1,821.92	1,465.44	1,401.62	63.82	22.962	
5,800.00	5,180.45	5,647.00	5,297.20	46.77	36.35	123.54	-262.77	1,821.01	1,486.71	1,422.11	64.60	23.016	
5,900.00	5,264.14	5,703.17	5,353.10	47.87	36.53	124.58	-257.39	1,820.26	1,510.80	1,445.53	65.27	23.146	
6,000.00	5,347.84	5,759.29	5,409.04	48.97	36.69	125.61	-252.92	1,819.42	1,537.75	1,471.85	65.91	23.333	
6,100.00	5,431.54	5,808.81	5,458.47	50.07	36.82	126.50	-250.07	1,818.69	1,567.82	1,501.38	66.44	23.596	
6,200.00	5,515.23	5,865.53	5,515.15	51.17	36.96	127.48	-248.06	1,817.86	1,600.89	1,533.89	67.00	23.895	
6,300.00	5,598.93	5,931.45	5,581.04	52.27	37.10	128.60	-246.51	1,816.82	1,636.15	1,568.56	67.60	24.205	
6,400.00	5,682.63	6,000.52	5,650.10	53.38	37.24	129.73	-245.62	1,815.91	1,673.28	1,605.09	68.20	24.537	
6,500.00	5,766.33	6,080.45	5,730.03	54.48	37.40	130.98	-245.20	1,815.23	1,711.91	1,643.04	68.88	24.855	
6,600.00	5,850.02	6,169.97	5,819.54	55.58	37.58	132.33	-244.58	1,814.39	1,751.31	1,681.68	69.63	25.152	
6,700.00	5,933.72	6,261.89	5,911.46	56.68	37.77	133.65	-243.58	1,813.83	1,791.14	1,720.75	70.39	25.445	
6,800.00	6,017.42	6,347.71	5,997.26	57.79	37.95	134.84	-242.37	1,813.43	1,831.45	1,760.36	71.09	25.762	
6,900.00	6,101.12	6,431.25	6,080.80	58.89	38.13	135.95	-241.31	1,813.15	1,872.55	1,800.79	71.76	26.095	
7,000.00	6,184.81	6,519.28	6,168.81	59.99	38.32	137.07	-240.03	1,813.01	1,914.11	1,841.65	72.46	26.417	
7,100.00	6,268.51	6,596.78	6,246.31	61.10	38.48	138.02	-238.95	1,812.71	1,956.41	1,883.36	73.05	26.780	
7,200.00	6,352.21	6,680.36	6,329.88	62.20	38.67	139.01	-237.98	1,812.48	1,999.44	1,925.75	73.69	27.131	
7,300.00	6,435.90	6,766.38	6,415.89	63.31	38.85	139.98	-237.02	1,812.46	2,042.97	1,968.62	74.35	27.478	
7,400.00	6,519.60	6,851.08	6,500.59	64.41	39.04	140.91	-235.99	1,812.39	2,086.94	2,011.96	74.99	27.831	
7,500.00	6,603.30	6,935.18	6,584.69	65.51	39.23	141.79	-234.96	1,812.34	2,131.38	2,055.76	75.61	28.188	
7,600.00	6,687.00	7,015.15	6,664.65	66.62	39.40	142.60	-234.05	1,812.34	2,176.30	2,100.10	76.20	28.561	
7,700.00	6,770.69	7,100.14	6,749.64	67.72	39.59	143.42	-233.41	1,812.59	2,221.82	2,145.00	76.82	28.921	
7,800.00	6,854.39	7,194.34	6,843.83	68.83	39.80	144.29	-232.49	1,813.36	2,267.36	2,189.83	77.52	29.248	
7,900.00	6,938.09	7,283.05	6,932.53	69.93	39.99	145.05	-231.69	1,814.64	2,313.07	2,234.90	78.17	29.589	
7,933.18	6,965.86	7,314.29	6,963.76	70.30	40.06	145.31	-231.43	1,815.25	2,328.26	2,249.85	78.40	29.696	
7,950.00	6,980.00	7,330.23	6,979.69	70.49	40.09	142.75	-231.30	1,815.61	2,335.75	2,257.24	78.52	29.748	
8,000.00	7,022.68	7,375.13	7,024.58	71.01	40.19	134.61	-230.93	1,816.73	2,355.69	2,276.85	78.84	29.878	
8,050.00	7,066.06	7,418.87	7,068.31	71.51	40.29	125.81	-230.63	1,817.91	2,372.09	2,292.93	79.16	29.967	
8,100.00	7,109.82	7,459.79	7,109.21	71.97	40.37	116.65	-230.40	1,819.08	2,384.88	2,305.44	79.44	30.020	
8,150.00	7,153.63	7,497.14	7,146.54	72.38	40.45	107.57	-230.29	1,820.13	2,394.11	2,314.42	79.69	30.042	
8,200.00	7,197.14	7,534.22	7,183.60	72.74	40.53	99.11	-230.28	1,821.12	2,399.78	2,319.85	79.93	30.024	
8,250.00	7,240.04	7,570.49	7,219.86	73.05	40.61	91.62	-230.37	1,822.06	2,401.90	2,321.75	80.15	29.969	
8,300.00	7,281.99	7,605.99	7,255.36	73.31	40.68	85.30	-230.57	1,822.96	2,400.48	2,320.14	80.34	29.878	
8,350.00	7,322.67	7,639.52	7,288.87	73.52	40.75	80.17	-230.86	1,823.78	2,395.60	2,315.09	80.51	29.756	
8,400.00	7,361.77	7,669.37	7,318.71	73.68	40.81	76.13	-231.24	1,824.49	2,387.35	2,306.73	80.63	29.610	
8,450.00	7,399.01	7,697.97	7,347.29	73.78	40.86	73.10	-231.73	1,825.14	2,375.86	2,295.14	80.72	29.433	
8,500.00	7,434.08	7,725.16	7,374.48	73.85	40.92	70.98	-232.30	1,825.73	2,361.23	2,280.43	80.79	29.225	
8,550.00	7,466.74	7,760.85	7,410.15	73.87	40.98	69.85	-233.13	1,826.54	2,343.51	2,262.57	80.94	28.954	
8,600.00	7,496.72	7,793.87	7,443.14	73.85	41.05	69.47	-233.91	1,827.35	2,322.79	2,241.74	81.06	28.657	
8,650.00	7,523.80	7,823.94	7,473.20	73.79	41.10	69.79	-234.64	1,828.16	2,299.28	2,218.14	81.15	28.335	
8,700.00	7,547.77	7,839.95	7,489.20	73.70	41.13	70.50	-235.06	1,828.56	2,273.26	2,192.15	81.10	28.029	
8,750.00	7,568.45	7,855.19	7,504.42	73.58	41.16	71.87	-235.48	1,828.91	2,244.95	2,163.89	81.06	27.695	
8,800.00	7,585.69	7,868.14	7,517.37	73.43	41.19	73.86	-235.87	1,829.17	2,214.56	2,133.56	81.00	27.340	
8,850.00	7,599.35	7,878.70	7,527.93	73.26	41.21	76.47	-236.20	1,829.37	2,182.29	2,101.36	80.93	26.965	
8,900.00	7,609.33	7,886.79	7,536.00	73.07	41.22	79.71	-236.46	1,829.51	2,148.38	2,067.53	80.85	26.572	
8,950.00	7,615.55	7,892.30	7,541.52	72.87	41.23	83.58	-236.64	1,829.60	2,113.04	2,032.27	80.77	26.161	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	7,895.19	7,544.40	72.65	41.24	88.06	-236.74	1,829.64	2,076.52	1,995.82	80.69	25.734	
9,006.60	7,618.00	7,895.37	7,544.58	72.62	41.24	88.70	-236.75	1,829.64	2,071.61	1,990.93	80.68	25.676	
9,100.00	7,618.00	7,897.62	7,546.83	72.22	41.24	88.79	-236.83	1,829.68	2,003.16	1,922.63	80.53	24.874	
9,200.00	7,618.00	7,900.07	7,549.28	71.80	41.25	88.89	-236.91	1,829.71	1,932.17	1,851.80	80.38	24.038	
9,300.00	7,618.00	7,902.57	7,551.77	71.41	41.25	89.00	-237.00	1,829.75	1,863.85	1,783.61	80.24	23.230	
9,400.00	7,618.00	7,905.11	7,554.31	71.04	41.26	89.10	-237.09	1,829.78	1,798.49	1,718.38	80.11	22.450	
9,500.00	7,618.00	7,907.70	7,556.90	70.68	41.26	89.21	-237.18	1,829.82	1,736.42	1,656.40	80.02	21.700	
9,600.00	7,618.00	7,914.00	7,563.20	70.35	41.27	89.47	-237.41	1,829.90	1,678.02	1,598.00	80.02	20.970	
9,700.00	7,618.00	7,914.00	7,563.20	70.04	41.27	89.47	-237.41	1,829.90	1,623.67	1,543.69	79.98	20.300	
9,800.00	7,618.00	7,914.00	7,563.20	69.75	41.27	89.47	-237.41	1,829.90	1,573.80	1,493.79	80.02	19.668	
9,900.00	7,618.00	7,918.66	7,567.86	69.47	41.28	89.66	-237.58	1,829.95	1,528.85	1,448.63	80.22	19.059	
10,000.00	7,618.00	7,921.54	7,570.73	69.22	41.29	89.78	-237.68	1,829.98	1,489.26	1,408.77	80.49	18.502	
10,100.00	7,618.00	7,924.45	7,573.64	68.99	41.29	89.90	-237.79	1,830.01	1,455.46	1,374.58	80.88	17.995	
10,200.00	7,618.00	7,927.39	7,576.58	68.78	41.30	90.02	-237.90	1,830.04	1,427.88	1,346.48	81.40	17.542	
10,300.00	7,618.00	7,930.36	7,579.55	68.59	41.30	90.15	-238.01	1,830.07	1,406.86	1,324.84	82.03	17.151	
10,400.00	7,618.00	7,933.38	7,582.56	68.42	41.31	90.27	-238.13	1,830.10	1,392.72	1,309.97	82.75	16.830	
10,500.00	7,618.00	7,936.42	7,585.60	68.28	41.31	90.40	-238.24	1,830.12	1,385.67	1,302.11	83.55	16.584	
10,548.15	7,618.00	7,937.90	7,587.08	68.21	41.32	90.46	-238.30	1,830.13	1,384.83	1,300.87	83.96	16.494	CC, ES
10,600.00	7,618.00	7,939.51	7,588.68	68.16	41.32	90.52	-238.36	1,830.15	1,385.80	1,301.41	84.39	16.422	
10,700.00	7,618.00	7,942.63	7,591.80	68.06	41.33	90.65	-238.48	1,830.17	1,393.12	1,307.90	85.22	16.347	SF
10,800.00	7,618.00	7,945.78	7,594.96	67.99	41.33	90.78	-238.60	1,830.19	1,407.52	1,321.50	86.02	16.363	
10,900.00	7,618.00	7,948.98	7,598.15	67.95	41.34	90.92	-238.73	1,830.21	1,428.78	1,342.03	86.75	16.470	
11,000.00	7,618.00	7,952.22	7,601.39	67.95	41.34	91.05	-238.85	1,830.23	1,456.60	1,369.20	87.40	16.666	
11,100.00	7,618.00	7,955.49	7,604.66	67.97	41.35	91.19	-238.98	1,830.25	1,490.61	1,402.66	87.95	16.948	
11,200.00	7,618.00	7,958.81	7,607.97	68.04	41.36	91.32	-239.11	1,830.26	1,530.41	1,442.00	88.41	17.311	
11,300.00	7,618.00	7,962.16	7,611.32	68.15	41.36	91.46	-239.25	1,830.27	1,575.55	1,486.78	88.76	17.750	
11,400.00	7,618.00	7,965.56	7,614.72	68.30	41.37	91.60	-239.38	1,830.29	1,625.58	1,536.55	89.03	18.258	
11,500.00	7,618.00	7,969.00	7,618.16	68.50	41.37	91.74	-239.52	1,830.30	1,680.07	1,590.85	89.23	18.829	
11,600.00	7,618.00	7,972.49	7,621.64	68.75	41.38	91.89	-239.66	1,830.30	1,738.61	1,649.25	89.36	19.457	
11,700.00	7,618.00	7,976.02	7,625.17	69.06	41.39	92.03	-239.81	1,830.31	1,800.79	1,711.36	89.43	20.136	
11,800.00	7,618.00	7,979.59	7,628.74	69.44	41.39	92.18	-239.95	1,830.31	1,866.25	1,776.79	89.46	20.861	
11,900.00	7,618.00	7,983.21	7,632.36	69.88	41.40	92.33	-240.10	1,830.31	1,934.66	1,845.20	89.46	21.626	
12,000.00	7,618.00	7,986.88	7,636.02	70.39	41.41	92.48	-240.26	1,830.31	2,005.72	1,916.29	89.43	22.428	
12,100.00	7,618.00	7,990.60	7,639.73	70.97	41.41	92.64	-240.41	1,830.31	2,079.15	1,989.77	89.38	23.262	
12,200.00	7,618.00	7,994.36	7,643.50	71.63	41.42	92.79	-240.57	1,830.30	2,154.72	2,065.40	89.32	24.125	
12,300.00	7,618.00	7,998.18	7,647.31	72.35	41.43	92.95	-240.73	1,830.29	2,232.20	2,142.96	89.24	25.013	
12,400.00	7,618.00	8,002.04	7,651.17	73.15	41.43	93.11	-240.90	1,830.28	2,311.40	2,222.24	89.16	25.924	
12,500.00	7,618.00	8,005.96	7,655.08	74.01	41.44	93.27	-241.07	1,830.27	2,392.16	2,303.08	89.08	26.855	
12,600.00	7,618.00	8,009.95	7,659.07	74.93	41.45	93.43	-241.24	1,830.25	2,474.31	2,385.32	88.99	27.804	
12,700.00	7,618.00	8,014.10	7,663.22	75.91	41.46	93.60	-241.42	1,830.23	2,557.73	2,468.82	88.91	28.769	
12,800.00	7,618.00	8,018.35	7,667.46	76.95	41.46	93.78	-241.61	1,830.21	2,642.29	2,553.47	88.82	29.749	
12,900.00	7,618.00	8,022.71	7,671.81	78.04	41.47	93.96	-241.81	1,830.17	2,727.89	2,639.15	88.74	30.741	
13,000.00	7,618.00	8,027.17	7,676.27	79.16	41.48	94.14	-242.01	1,830.14	2,814.43	2,725.78	88.66	31.745	
13,100.00	7,618.00	8,031.75	7,680.84	80.33	41.49	94.33	-242.22	1,830.10	2,901.83	2,813.26	88.58	32.760	
13,200.00	7,618.00	8,036.44	7,685.53	81.54	41.50	94.52	-242.44	1,830.05	2,990.02	2,901.51	88.50	33.784	
13,300.00	7,618.00	8,041.26	7,690.34	82.78	41.50	94.72	-242.66	1,829.99	3,078.92	2,990.48	88.43	34.816	
13,400.00	7,618.00	8,046.20	7,695.28	84.05	41.51	94.92	-242.90	1,829.93	3,168.47	3,080.10	88.37	35.856	
13,500.00	7,618.00	8,051.27	7,700.34	85.35	41.52	95.13	-243.15	1,829.86	3,258.62	3,170.32	88.30	36.903	
13,600.00	7,618.00	13,600.00	7,927.53	86.67	49.12	104.25	-260.83	1,830.54	3,349.12	3,248.32	100.80	33.225	
13,700.00	7,618.00	13,700.00	7,937.60	88.02	49.26	104.64	-261.86	1,830.85	3,439.82	3,338.83	101.00	34.058	
13,800.00	7,618.00	13,800.00	7,947.66	89.38	49.40	105.04	-262.89	1,831.16	3,531.00	3,429.80	101.20	34.892	
13,900.00	7,618.00	8,323.10	7,971.08	90.77	41.94	105.95	-265.46	1,832.46	3,622.24	3,534.37	87.87	41.222	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,618.00	8,326.22	7,974.18	92.17	41.94	106.07	-265.77	1,832.61	3,714.23	3,626.40	87.83	42.287	
14,100.00	7,618.00	8,329.24	7,977.18	93.59	41.95	106.19	-266.06	1,832.75	3,806.62	3,718.82	87.80	43.356	
14,200.00	7,618.00	8,332.15	7,980.08	95.02	41.95	106.30	-266.34	1,832.88	3,899.38	3,811.61	87.77	44.428	
14,300.00	7,618.00	8,334.96	7,982.87	96.47	41.96	106.41	-266.60	1,833.00	3,992.48	3,904.74	87.74	45.504	
14,400.00	7,618.00	8,337.68	7,985.58	97.93	41.96	106.51	-266.85	1,833.12	4,085.90	3,998.19	87.71	46.582	
14,500.00	7,618.00	8,340.32	7,988.20	99.41	41.96	106.61	-267.08	1,833.24	4,179.62	4,091.93	87.69	47.663	
14,600.00	7,618.00	8,342.87	7,990.74	100.89	41.97	106.71	-267.31	1,833.35	4,273.62	4,185.95	87.67	48.746	
14,700.00	7,618.00	8,345.34	7,993.20	102.38	41.97	106.81	-267.52	1,833.46	4,367.88	4,280.22	87.65	49.831	
14,800.00	7,618.00	8,347.73	7,995.58	103.89	41.98	106.90	-267.73	1,833.56	4,462.38	4,374.74	87.64	50.918	
14,900.00	7,618.00	8,350.05	7,997.89	105.40	41.98	106.99	-267.92	1,833.66	4,557.12	4,469.49	87.63	52.006	
15,000.00	7,618.00	8,352.30	8,000.14	106.92	41.98	107.07	-268.11	1,833.75	4,652.07	4,564.46	87.62	53.096	
15,100.00	7,618.00	8,386.00	8,033.72	108.45	42.03	108.35	-270.58	1,835.06	4,747.62	4,660.03	87.59	54.200	
15,200.00	7,618.00	8,386.00	8,033.72	109.99	42.03	108.35	-270.58	1,835.06	4,842.91	4,755.32	87.59	55.291	
15,300.00	7,618.00	8,386.00	8,033.72	111.54	42.03	108.35	-270.58	1,835.06	4,938.39	4,850.81	87.59	56.383	
15,400.00	7,618.00	8,386.00	8,033.72	113.09	42.03	108.35	-270.58	1,835.06	5,034.05	4,946.46	87.59	57.476	
15,500.00	7,618.00	8,386.00	8,033.72	114.65	42.03	108.35	-270.58	1,835.06	5,129.87	5,042.28	87.59	58.570	
15,600.00	7,618.00	8,386.00	8,033.72	116.21	42.03	108.35	-270.58	1,835.06	5,225.85	5,138.26	87.59	59.665	
15,700.00	7,618.00	8,386.00	8,033.72	117.78	42.03	108.35	-270.58	1,835.06	5,321.97	5,234.38	87.59	60.760	
15,800.00	7,618.00	8,386.00	8,033.72	119.36	42.03	108.35	-270.58	1,835.06	5,418.24	5,330.65	87.59	61.857	
15,900.00	7,618.00	8,386.00	8,033.72	120.94	42.03	108.35	-270.58	1,835.06	5,514.64	5,427.04	87.60	62.953	
16,000.00	7,618.00	8,386.00	8,033.72	122.53	42.03	108.35	-270.58	1,835.06	5,611.16	5,523.56	87.61	64.051	
16,100.00	7,618.00	8,386.00	8,033.72	124.12	42.03	108.35	-270.58	1,835.06	5,707.81	5,620.20	87.61	65.148	
16,200.00	7,618.00	8,386.00	8,033.72	125.72	42.03	108.35	-270.58	1,835.06	5,804.57	5,716.95	87.62	66.246	
16,300.00	7,618.00	8,386.00	8,033.72	127.32	42.03	108.35	-270.58	1,835.06	5,901.43	5,813.80	87.63	67.344	
16,400.00	7,618.00	8,386.00	8,033.72	128.93	42.03	108.35	-270.58	1,835.06	5,998.40	5,910.76	87.64	68.442	
16,500.00	7,618.00	8,386.00	8,033.72	130.54	42.03	108.35	-270.58	1,835.06	6,095.47	6,007.81	87.65	69.540	
16,600.00	7,618.00	8,386.00	8,033.72	132.15	42.03	108.35	-270.58	1,835.06	6,192.63	6,104.96	87.67	70.638	
16,700.00	7,618.00	8,386.00	8,033.72	133.77	42.03	108.35	-270.58	1,835.06	6,289.88	6,202.20	87.68	71.735	
16,800.00	7,618.00	8,386.00	8,033.72	135.39	42.03	108.35	-270.58	1,835.06	6,387.21	6,299.52	87.70	72.833	
16,900.00	7,618.00	8,386.00	8,033.72	137.01	42.03	108.35	-270.58	1,835.06	6,484.63	6,396.92	87.71	73.930	
17,000.00	7,618.00	8,386.00	8,033.72	138.64	42.03	108.35	-270.58	1,835.06	6,582.12	6,494.39	87.73	75.028	
17,100.00	7,618.00	8,386.00	8,033.72	140.27	42.03	108.35	-270.58	1,835.06	6,679.69	6,591.94	87.75	76.124	
17,200.00	7,618.00	8,386.00	8,033.72	141.91	42.03	108.35	-270.58	1,835.06	6,777.33	6,689.56	87.77	77.221	
17,300.00	7,618.00	8,386.00	8,033.72	143.55	42.03	108.35	-270.58	1,835.06	6,875.03	6,787.25	87.79	78.317	
17,400.00	7,618.00	8,386.00	8,033.72	145.19	42.03	108.35	-270.58	1,835.06	6,972.80	6,885.00	87.81	79.412	
17,500.00	7,618.00	8,386.00	8,033.72	146.83	42.03	108.35	-270.58	1,835.06	7,070.64	6,982.81	87.83	80.507	
17,600.00	7,618.00	8,386.00	8,033.72	148.48	42.03	108.35	-270.58	1,835.06	7,168.53	7,080.68	87.85	81.601	
17,700.00	7,618.00	8,386.00	8,033.72	150.13	42.03	108.35	-270.58	1,835.06	7,266.48	7,178.61	87.87	82.695	
17,800.00	7,618.00	8,386.00	8,033.72	151.78	42.03	108.35	-270.58	1,835.06	7,364.49	7,276.59	87.89	83.788	
17,900.00	7,618.00	8,386.00	8,033.72	153.43	42.03	108.35	-270.58	1,835.06	7,462.55	7,374.63	87.92	84.881	
18,000.00	7,618.00	8,386.00	8,033.72	155.09	42.03	108.35	-270.58	1,835.06	7,560.66	7,472.71	87.94	85.972	
18,100.00	7,618.00	8,413.47	8,061.12	156.75	42.08	109.38	-272.25	1,836.03	7,658.68	7,570.70	87.98	87.047	
18,200.00	7,618.00	8,415.66	8,063.30	158.41	42.08	109.47	-272.38	1,836.11	7,756.87	7,668.86	88.01	88.135	
18,300.00	7,618.00	8,417.81	8,065.45	160.07	42.09	109.55	-272.50	1,836.18	7,855.10	7,767.06	88.04	89.222	
18,400.00	7,618.00	8,419.94	8,067.57	161.74	42.09	109.63	-272.62	1,836.25	7,953.37	7,865.30	88.07	90.308	
18,500.00	7,618.00	8,422.02	8,069.65	163.41	42.10	109.70	-272.74	1,836.32	8,051.68	7,963.58	88.10	91.393	
18,600.00	7,618.00	8,424.08	8,071.70	165.08	42.10	109.78	-272.86	1,836.39	8,150.03	8,061.90	88.13	92.477	
18,700.00	7,618.00	8,426.11	8,073.72	166.75	42.10	109.85	-272.97	1,836.46	8,248.42	8,160.26	88.16	93.560	
18,711.30	7,618.00	8,426.33	8,073.95	166.94	42.10	109.86	-272.98	1,836.47	8,259.55	8,171.38	88.17	93.683	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	69.95	772.02	2,115.91	2,252.73				
100.00	100.00	61.77	61.77	0.13	0.10	69.96	771.80	2,115.95	2,252.32	2,252.09	0.23	9,634.736	
200.00	200.00	166.45	166.44	0.49	0.36	69.99	770.64	2,116.12	2,252.09	2,251.24	0.85	2,655.052	
300.00	300.00	270.07	270.06	0.85	0.73	70.01	769.87	2,115.94	2,251.67	2,250.09	1.58	1,427.342	
400.00	400.00	360.09	360.08	1.21	1.05	70.02	769.31	2,115.78	2,251.30	2,249.05	2.26	997.657	
406.46	406.46	365.47	365.46	1.23	1.07	70.02	769.28	2,115.79	2,251.30	2,249.00	2.30	979.318	
500.00	500.00	451.35	451.33	1.57	1.37	70.03	768.78	2,116.20	2,251.53	2,248.59	2.94	766.452	
600.00	600.00	540.09	540.08	1.93	1.68	70.05	768.55	2,116.76	2,252.04	2,248.44	3.61	624.228	
700.00	700.00	632.69	632.67	2.29	2.01	70.06	768.29	2,117.95	2,253.15	2,248.86	4.29	524.990	
800.00	800.00	729.81	729.78	2.64	2.35	70.08	768.07	2,119.26	2,254.34	2,249.35	4.99	451.587	
900.00	900.00	832.62	832.57	3.00	2.71	70.09	768.24	2,120.63	2,255.65	2,249.93	5.71	394.850	
1,000.00	999.98	947.70	947.65	3.36	3.11	12.91	768.66	2,121.54	2,254.82	2,248.36	6.47	348.662	
1,100.00	1,099.84	1,051.61	1,051.55	3.71	3.46	12.93	769.92	2,121.53	2,250.12	2,242.95	7.17	313.711	
1,200.00	1,199.45	1,135.80	1,135.73	4.07	3.75	12.98	771.15	2,121.70	2,242.31	2,234.50	7.82	286.892	
1,300.00	1,298.70	1,236.31	1,236.23	4.44	4.10	13.07	772.51	2,122.02	2,231.18	2,222.66	8.52	261.857	
1,400.00	1,397.47	1,295.98	1,295.88	4.82	4.31	13.16	774.00	2,122.65	2,217.77	2,208.68	9.08	244.130	
1,500.00	1,495.62	1,355.58	1,355.40	5.22	4.52	13.24	776.61	2,124.00	2,202.74	2,193.09	9.65	228.256	
1,600.00	1,593.06	1,409.00	1,408.69	5.65	4.71	13.33	779.89	2,125.83	2,186.13	2,175.94	10.20	214.411	
1,700.00	1,689.64	1,478.18	1,477.59	6.11	4.95	13.42	785.19	2,129.07	2,167.82	2,157.01	10.81	200.630	
1,800.00	1,785.27	1,537.59	1,536.65	6.61	5.17	13.52	790.50	2,132.67	2,147.83	2,136.45	11.38	188.690	
1,900.00	1,879.82	1,598.00	1,596.57	7.15	5.39	13.63	796.65	2,137.31	2,126.36	2,114.39	11.97	177.645	
2,000.00	1,973.17	1,657.37	1,655.32	7.73	5.61	13.77	803.21	2,142.79	2,103.30	2,090.74	12.56	167.445	
2,100.00	2,065.21	1,721.76	1,718.90	8.37	5.86	13.93	810.68	2,149.67	2,078.53	2,065.34	13.18	157.686	
2,200.00	2,155.84	1,787.00	1,783.15	9.07	6.11	14.10	819.03	2,157.36	2,051.91	2,038.09	13.82	148.524	
2,300.00	2,244.94	1,846.36	1,841.42	9.82	6.35	14.29	827.16	2,165.19	2,023.63	2,009.19	14.44	140.164	
2,400.00	2,332.39	1,910.63	1,904.31	10.64	6.62	14.52	836.32	2,174.78	1,993.82	1,978.72	15.09	132.105	
2,500.00	2,418.11	1,975.00	1,967.15	11.53	6.89	14.77	845.78	2,185.05	1,962.01	1,946.24	15.76	124.477	
2,558.91	2,467.74	2,011.61	2,002.81	12.08	7.05	14.94	851.13	2,191.38	1,942.48	1,926.32	16.16	120.208	
2,600.00	2,502.13	2,033.08	2,023.68	12.47	7.14	14.99	854.16	2,195.39	1,928.90	1,912.48	16.42	117.474	
2,700.00	2,585.83	2,090.99	2,079.82	13.45	7.40	15.14	861.93	2,207.29	1,897.30	1,880.22	17.08	111.060	
2,800.00	2,669.53	2,164.00	2,150.40	14.44	7.74	15.38	870.85	2,223.68	1,867.17	1,849.34	17.83	104.728	
2,900.00	2,753.22	2,241.04	2,224.73	15.46	8.10	15.69	878.87	2,242.26	1,838.11	1,819.50	18.61	98.790	
3,000.00	2,836.92	2,312.82	2,293.82	16.48	8.44	16.03	885.28	2,260.61	1,810.09	1,790.71	19.37	93.424	
3,100.00	2,920.62	2,384.79	2,362.83	17.52	8.80	16.38	891.98	2,279.95	1,783.48	1,763.32	20.16	88.473	
3,200.00	3,004.32	2,449.00	2,424.19	18.56	9.13	16.71	897.81	2,297.93	1,758.17	1,737.25	20.92	84.051	
3,300.00	3,088.01	2,513.90	2,485.86	19.61	9.48	17.04	904.15	2,317.14	1,734.70	1,713.00	21.69	79.963	
3,400.00	3,171.71	2,589.82	2,557.43	20.67	9.91	17.42	912.58	2,340.99	1,713.31	1,690.77	22.54	76.020	
3,500.00	3,255.41	2,699.09	2,660.45	21.73	10.54	18.00	923.98	2,375.60	1,692.21	1,668.63	23.58	71.773	
3,600.00	3,339.10	2,806.99	2,762.53	22.80	11.17	18.58	935.37	2,408.66	1,670.22	1,645.59	24.63	67.825	
3,700.00	3,422.80	2,902.53	2,852.95	23.87	11.74	19.07	946.32	2,437.49	1,648.14	1,622.52	25.62	64.320	
3,800.00	3,506.50	2,998.03	2,943.31	24.94	12.32	19.57	957.33	2,466.39	1,626.29	1,599.65	26.64	61.048	
3,900.00	3,590.20	3,081.70	3,022.38	26.02	12.84	20.03	967.00	2,491.98	1,604.91	1,577.30	27.61	58.126	
4,000.00	3,673.89	3,177.15	3,112.34	27.10	13.44	20.54	978.58	2,521.70	1,584.31	1,555.65	28.66	55.277	
4,100.00	3,757.59	3,284.07	3,213.29	28.18	14.11	21.14	991.18	2,554.62	1,563.44	1,533.65	29.79	52.479	
4,200.00	3,841.29	3,393.36	3,316.79	29.26	14.80	21.82	1,002.84	2,587.73	1,541.99	1,511.03	30.96	49.811	
4,300.00	3,924.99	3,479.99	3,398.82	30.35	15.34	22.35	1,012.53	2,613.80	1,520.60	1,488.58	32.02	47.487	
4,400.00	4,008.68	3,576.02	3,489.62	31.44	15.96	22.93	1,023.93	2,642.91	1,499.72	1,466.56	33.15	45.236	
4,500.00	4,092.38	3,691.78	3,599.36	32.52	16.69	23.65	1,037.49	2,677.18	1,478.24	1,443.83	34.41	42.962	
4,600.00	4,176.08	3,782.20	3,685.20	33.62	17.26	24.26	1,047.43	2,703.82	1,456.67	1,421.11	35.56	40.964	
4,700.00	4,259.77	3,885.68	3,783.46	34.71	17.92	24.96	1,059.19	2,734.05	1,435.10	1,398.31	36.80	38.999	
4,800.00	4,343.47	3,976.05	3,869.31	35.80	18.49	25.60	1,069.06	2,760.50	1,413.73	1,375.73	38.00	37.203	
4,900.00	4,427.17	4,064.35	3,953.00	36.89	19.06	26.25	1,078.80	2,786.89	1,393.18	1,353.96	39.22	35.525	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,510.87	4,183.37	4,065.93	37.99	19.82	27.08	1,093.52	2,821.47	1,372.17	1,331.56	40.61	33.792	
5,100.00	4,594.56	4,282.83	4,160.65	39.08	20.44	27.80	1,105.55	2,849.29	1,350.22	1,308.30	41.92	32.207	
5,200.00	4,678.26	4,371.05	4,244.67	40.18	21.00	28.52	1,114.82	2,874.58	1,329.03	1,285.79	43.23	30.740	
5,300.00	4,761.96	4,472.08	4,340.79	41.28	21.64	29.35	1,125.96	2,903.59	1,308.20	1,263.56	44.64	29.308	
5,400.00	4,845.66	4,566.00	4,430.26	42.37	22.24	30.13	1,136.65	2,930.08	1,287.13	1,241.10	46.04	27.960	
5,500.00	4,929.35	4,660.39	4,519.75	43.47	22.84	30.86	1,149.28	2,957.34	1,267.10	1,219.65	47.44	26.708	
5,600.00	5,013.05	4,778.94	4,632.71	44.57	23.59	31.86	1,163.84	2,990.22	1,246.08	1,197.06	49.02	25.421	
5,700.00	5,096.75	4,880.12	4,729.67	45.67	24.20	32.84	1,174.20	3,017.21	1,224.21	1,173.63	50.58	24.206	
5,800.00	5,180.45	5,011.48	4,856.25	46.77	24.97	34.30	1,185.08	3,050.57	1,201.52	1,149.17	52.34	22.955	
5,900.00	5,264.14	5,128.38	4,969.53	47.87	25.61	35.67	1,194.74	3,077.75	1,177.18	1,123.11	54.07	21.771	
6,000.00	5,347.84	5,299.19	5,137.02	48.97	26.45	38.00	1,205.28	3,109.31	1,148.73	1,092.75	55.98	20.520	
6,100.00	5,431.54	5,419.63	5,256.07	50.07	26.95	39.90	1,210.59	3,126.76	1,117.49	1,059.67	57.82	19.326	
6,200.00	5,515.23	5,568.17	5,403.85	51.17	27.50	42.58	1,215.34	3,140.67	1,082.12	1,022.42	59.70	18.127	
6,300.00	5,598.93	5,703.40	5,538.95	52.27	27.89	45.48	1,216.69	3,146.09	1,043.25	981.62	61.64	16.925	
6,400.00	5,682.63	5,800.53	5,636.07	53.38	28.15	47.79	1,217.31	3,147.15	1,003.26	939.45	63.81	15.723	
6,500.00	5,766.33	5,884.17	5,719.71	54.48	28.37	49.92	1,218.02	3,147.68	964.23	898.06	66.17	14.573	
6,600.00	5,850.02	5,965.22	5,800.76	55.58	28.58	52.13	1,218.70	3,148.51	926.99	858.33	68.66	13.501	
6,700.00	5,933.72	6,050.75	5,886.27	56.68	28.82	54.58	1,219.66	3,149.51	891.49	820.23	71.26	12.511	
6,800.00	6,017.42	6,137.97	5,973.48	57.79	29.05	57.26	1,220.70	3,150.35	857.64	783.68	73.97	11.595	
6,900.00	6,101.12	6,224.81	6,060.31	58.89	29.29	60.11	1,221.69	3,150.88	825.63	748.84	76.79	10.752	
7,000.00	6,184.81	6,310.04	6,145.54	59.99	29.51	63.09	1,222.55	3,151.15	795.79	716.08	79.71	9.984	
7,100.00	6,268.51	6,391.61	6,227.11	61.10	29.73	66.12	1,223.02	3,151.29	768.66	685.96	82.71	9.294	
7,200.00	6,352.21	6,475.37	6,310.86	62.20	29.95	69.42	1,223.14	3,151.47	744.75	659.04	85.71	8.689	
7,300.00	6,435.90	6,556.27	6,391.77	63.31	30.17	72.72	1,223.55	3,151.87	724.18	635.53	88.65	8.169	
7,400.00	6,519.60	6,638.93	6,474.42	64.41	30.39	76.20	1,223.81	3,152.82	707.67	616.21	91.45	7.738	
7,500.00	6,603.30	6,726.15	6,561.64	65.51	30.64	80.01	1,224.08	3,153.40	694.65	600.59	94.06	7.385	
7,600.00	6,687.00	6,811.68	6,647.16	66.62	30.87	83.82	1,224.67	3,154.07	685.49	589.10	96.39	7.111	
7,700.00	6,770.69	6,899.41	6,734.88	67.72	31.12	87.75	1,225.81	3,154.81	680.10	581.70	98.40	6.912	
7,780.41	6,838.00	6,966.69	6,802.16	68.61	31.31	90.80	1,226.71	3,155.22	678.69	578.96	99.74	6.805	
7,800.00	6,854.39	6,983.10	6,818.57	68.83	31.36	91.54	1,226.91	3,155.30	678.78	578.76	100.02	6.786	
7,900.00	6,938.09	7,067.53	6,902.99	69.93	31.59	95.40	1,227.74	3,155.35	681.75	580.52	101.23	6.735	
7,933.18	6,965.86	7,096.75	6,932.21	70.30	31.67	96.73	1,228.00	3,155.27	683.66	582.12	101.54	6.733	
7,950.00	6,980.00	7,111.81	6,947.27	70.49	31.71	95.12	1,228.17	3,155.22	684.55	582.87	101.68	6.733	
8,000.00	7,022.68	7,157.31	6,992.76	71.01	31.84	89.55	1,228.81	3,155.09	685.04	583.01	102.03	6.714	
8,050.00	7,066.06	7,200.92	7,036.37	71.51	31.96	82.82	1,229.55	3,154.96	682.22	579.95	102.28	6.670	
8,100.00	7,109.82	7,244.13	7,079.57	71.97	32.08	75.39	1,230.24	3,154.82	676.14	573.70	102.44	6.600	
8,150.00	7,153.63	7,286.89	7,122.33	72.38	32.19	67.77	1,230.89	3,154.70	666.73	564.21	102.52	6.504	
8,200.00	7,197.14	7,329.11	7,164.54	72.74	32.31	60.50	1,231.48	3,154.64	653.99	551.47	102.52	6.379	
8,250.00	7,240.04	7,370.73	7,206.16	73.05	32.43	53.98	1,231.99	3,154.63	637.92	535.48	102.44	6.227	
8,300.00	7,281.99	7,411.42	7,246.85	73.31	32.54	48.45	1,232.43	3,154.67	618.55	516.25	102.30	6.047	
8,350.00	7,322.67	7,450.93	7,286.36	73.52	32.66	43.96	1,232.79	3,154.74	595.94	493.86	102.07	5.838	
8,400.00	7,361.77	7,487.29	7,322.71	73.68	32.76	40.39	1,233.00	3,154.82	570.24	468.48	101.75	5.604	
8,450.00	7,399.01	7,522.18	7,357.61	73.78	32.85	37.76	1,233.05	3,154.88	541.61	440.26	101.35	5.344	
8,500.00	7,434.08	7,555.78	7,391.20	73.85	32.94	36.04	1,232.97	3,154.93	510.18	409.33	100.86	5.059	
8,550.00	7,466.74	7,587.98	7,423.41	73.87	33.03	35.24	1,232.84	3,154.95	476.06	375.79	100.27	4.748	
8,600.00	7,496.72	7,617.63	7,453.05	73.85	33.10	35.34	1,232.67	3,154.95	439.42	339.87	99.56	4.414	
8,650.00	7,523.80	7,644.51	7,479.93	73.79	33.17	36.47	1,232.50	3,154.91	400.52	301.82	98.70	4.058	
8,700.00	7,547.77	7,668.45	7,503.87	73.70	33.24	38.88	1,232.31	3,154.89	359.62	261.97	97.64	3.683	
8,750.00	7,568.45	7,689.25	7,524.67	73.58	33.29	42.94	1,232.14	3,154.88	317.02	220.69	96.32	3.291	
8,800.00	7,585.69	7,706.73	7,542.15	73.43	33.34	49.17	1,231.98	3,154.88	273.08	178.48	94.60	2.887	
8,850.00	7,599.35	7,720.74	7,556.16	73.26	33.37	58.03	1,231.84	3,154.88	228.27	136.03	92.24	2.475	
8,900.00	7,609.33	7,731.15	7,566.57	73.07	33.40	69.15	1,231.74	3,154.89	183.22	94.49	88.73	2.065	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,950.00	7,615.55	7,737.93	7,573.34	72.87	33.42	80.51	1,231.67	3,154.90	139.05	56.07	82.98	1.676	
9,000.00	7,617.97	7,740.88	7,576.29	72.65	33.43	88.76	1,231.63	3,154.90	98.29	25.59	72.70	1.352	Level 3
9,006.60	7,618.00	7,740.98	7,576.40	72.62	33.43	89.47	1,231.63	3,154.90	93.45	22.55	70.91	1.318	Level 3
9,073.74	7,618.00	7,741.68	7,577.10	72.33	33.43	90.08	1,231.63	3,154.90	65.01	-6.37	71.38	0.911	Level 1, CC
9,100.00	7,618.00	7,741.95	7,577.37	72.22	33.43	90.32	1,231.62	3,154.90	70.12	-17.09	87.20	0.804	Level 1, ES, SF
9,200.00	7,618.00	7,742.99	7,578.41	71.80	33.43	91.24	1,231.61	3,154.90	142.01	37.07	104.93	1.353	Level 3
9,300.00	7,618.00	7,744.03	7,579.44	71.41	33.44	92.15	1,231.60	3,154.91	235.40	130.83	104.57	2.251	
9,400.00	7,618.00	7,745.06	7,580.48	71.04	33.44	93.06	1,231.59	3,154.91	332.66	228.99	103.66	3.209	
9,500.00	7,618.00	7,746.10	7,581.51	70.68	33.44	93.97	1,231.58	3,154.91	431.17	328.18	102.99	4.187	
9,600.00	7,618.00	7,747.13	7,582.54	70.35	33.44	94.87	1,231.57	3,154.91	530.23	427.74	102.50	5.173	
9,700.00	7,618.00	7,748.15	7,583.57	70.04	33.45	95.77	1,231.56	3,154.91	629.59	527.46	102.13	6.164	
9,800.00	7,618.00	7,749.18	7,584.60	69.75	33.45	96.67	1,231.55	3,154.91	729.13	627.27	101.85	7.159	
9,900.00	7,618.00	7,750.21	7,585.62	69.47	33.45	97.56	1,231.54	3,154.92	828.77	727.13	101.63	8.154	
10,000.00	7,618.00	7,751.23	7,586.65	69.22	33.45	98.44	1,231.53	3,154.92	928.49	827.03	101.46	9.151	
10,100.00	7,618.00	7,752.25	7,587.67	68.99	33.46	99.32	1,231.52	3,154.92	1,028.26	926.95	101.31	10.149	
10,200.00	7,618.00	7,753.27	7,588.69	68.78	33.46	100.19	1,231.51	3,154.92	1,128.07	1,026.88	101.19	11.148	
10,300.00	7,618.00	7,754.29	7,589.70	68.59	33.46	101.06	1,231.50	3,154.93	1,227.92	1,126.83	101.09	12.147	
10,400.00	7,618.00	7,755.30	7,590.72	68.42	33.47	101.92	1,231.49	3,154.93	1,327.78	1,226.78	101.00	13.146	
10,500.00	7,618.00	7,756.32	7,591.73	68.28	33.47	102.77	1,231.48	3,154.93	1,427.66	1,326.74	100.93	14.145	
10,600.00	7,618.00	7,757.33	7,592.74	68.16	33.47	103.62	1,231.47	3,154.93	1,527.56	1,426.70	100.86	15.145	
10,700.00	7,618.00	7,758.34	7,593.75	68.06	33.47	104.46	1,231.45	3,154.94	1,627.47	1,526.67	100.81	16.145	
10,800.00	7,618.00	7,759.35	7,594.76	67.99	33.48	105.29	1,231.44	3,154.94	1,727.39	1,626.64	100.76	17.144	
10,900.00	7,618.00	7,760.35	7,595.77	67.95	33.48	106.11	1,231.43	3,154.94	1,827.32	1,726.61	100.71	18.144	
11,000.00	7,618.00	7,761.36	7,596.77	67.95	33.48	106.93	1,231.42	3,154.94	1,927.25	1,826.58	100.67	19.144	
11,100.00	7,618.00	7,762.36	7,597.77	67.97	33.48	107.73	1,231.41	3,154.95	2,027.20	1,926.56	100.64	20.143	
11,200.00	7,618.00	7,763.36	7,598.77	68.04	33.49	108.53	1,231.40	3,154.95	2,127.14	2,026.53	100.61	21.143	
11,300.00	7,618.00	7,764.36	7,599.77	68.15	33.49	109.32	1,231.39	3,154.95	2,227.09	2,126.51	100.58	22.142	
11,400.00	7,618.00	7,765.35	7,600.77	68.30	33.49	110.10	1,231.38	3,154.96	2,327.05	2,226.49	100.56	23.142	
11,500.00	7,618.00	7,766.35	7,601.76	68.50	33.50	110.87	1,231.37	3,154.96	2,427.00	2,326.47	100.53	24.141	
11,600.00	7,618.00	7,767.34	7,602.76	68.75	33.50	111.63	1,231.36	3,154.96	2,526.96	2,426.45	100.52	25.140	
11,700.00	7,618.00	7,768.33	7,603.75	69.06	33.50	112.38	1,231.35	3,154.97	2,626.93	2,526.43	100.50	26.139	
11,800.00	7,618.00	7,769.32	7,604.74	69.44	33.50	113.13	1,231.34	3,154.97	2,726.89	2,626.41	100.48	27.137	
11,900.00	7,618.00	7,770.31	7,605.72	69.88	33.51	113.86	1,231.33	3,154.97	2,826.86	2,726.39	100.47	28.136	
12,000.00	7,618.00	7,771.29	7,606.71	70.39	33.51	114.58	1,231.32	3,154.98	2,926.83	2,826.37	100.46	29.134	
12,100.00	7,618.00	7,772.28	7,607.69	70.97	33.51	115.30	1,231.31	3,154.98	3,026.80	2,926.35	100.45	30.132	
12,200.00	7,618.00	7,773.26	7,608.67	71.63	33.51	116.00	1,231.30	3,154.98	3,126.77	3,026.33	100.44	31.130	
12,300.00	7,618.00	7,774.24	7,609.65	72.35	33.52	116.70	1,231.29	3,154.99	3,226.75	3,126.31	100.44	32.127	
12,400.00	7,618.00	7,775.22	7,610.63	73.15	33.52	117.38	1,231.28	3,154.99	3,326.72	3,226.29	100.43	33.124	
12,500.00	7,618.00	7,776.19	7,611.61	74.01	33.52	118.06	1,231.27	3,154.99	3,426.70	3,326.27	100.43	34.121	
12,600.00	7,618.00	7,777.17	7,612.58	74.93	33.52	118.73	1,231.26	3,155.00	3,526.68	3,426.25	100.42	35.118	
12,700.00	7,618.00	7,778.14	7,613.55	75.91	33.53	119.39	1,231.25	3,155.00	3,626.65	3,526.23	100.42	36.114	
12,800.00	7,618.00	7,779.11	7,614.53	76.95	33.53	120.03	1,231.24	3,155.01	3,726.63	3,626.21	100.42	37.110	
12,900.00	7,618.00	7,780.08	7,615.49	78.04	33.53	120.67	1,231.24	3,155.01	3,826.61	3,726.19	100.42	38.105	
13,000.00	7,618.00	7,781.05	7,616.46	79.16	33.53	121.30	1,231.23	3,155.01	3,926.59	3,826.17	100.42	39.100	
13,100.00	7,618.00	7,782.01	7,617.43	80.33	33.54	121.92	1,231.22	3,155.02	4,026.58	3,926.15	100.43	40.095	
13,200.00	7,618.00	7,782.98	7,618.39	81.54	33.54	122.53	1,231.21	3,155.02	4,126.56	4,026.13	100.43	41.090	
13,300.00	7,618.00	7,783.94	7,619.35	82.78	33.54	123.13	1,231.20	3,155.03	4,226.54	4,126.11	100.43	42.084	
13,400.00	7,618.00	7,784.90	7,620.31	84.05	33.55	123.73	1,231.19	3,155.03	4,326.52	4,226.09	100.44	43.077	
13,500.00	7,618.00	7,785.86	7,621.27	85.35	33.55	124.31	1,231.18	3,155.04	4,426.51	4,326.07	100.44	44.070	
13,600.00	7,618.00	7,786.81	7,622.23	86.67	33.55	124.88	1,231.17	3,155.04	4,526.49	4,426.05	100.45	45.063	
13,700.00	7,618.00	7,787.77	7,623.18	88.02	33.55	125.45	1,231.16	3,155.05	4,626.48	4,526.02	100.45	46.055	
13,800.00	7,618.00	7,788.72	7,624.14	89.38	33.56	126.01	1,231.15	3,155.05	4,726.46	4,626.00	100.46	47.047	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,900.00	7,618.00	7,789.67	7,625.09	90.77	33.56	126.55	1,231.14	3,155.05	4,826.45	4,725.98	100.47	48.039	
14,000.00	7,618.00	7,790.62	7,626.04	92.17	33.56	127.09	1,231.13	3,155.06	4,926.44	4,825.96	100.48	49.029	
14,100.00	7,618.00	7,791.57	7,626.99	93.59	33.56	127.63	1,231.12	3,155.06	5,026.42	4,925.93	100.49	50.020	
14,200.00	7,618.00	7,792.52	7,627.93	95.02	33.57	128.15	1,231.11	3,155.07	5,126.41	5,025.91	100.50	51.010	
14,300.00	7,618.00	7,793.46	7,628.88	96.47	33.57	128.66	1,231.10	3,155.07	5,226.40	5,125.89	100.51	51.999	
14,400.00	7,618.00	7,794.41	7,629.82	97.93	33.57	129.17	1,231.09	3,155.08	5,326.38	5,225.86	100.52	52.988	
14,500.00	7,618.00	7,795.35	7,630.76	99.41	33.57	129.67	1,231.08	3,155.08	5,426.37	5,325.84	100.53	53.976	
14,600.00	7,618.00	7,796.29	7,631.70	100.89	33.58	130.16	1,231.07	3,155.09	5,526.36	5,425.81	100.54	54.964	
14,700.00	7,618.00	7,797.22	7,632.64	102.38	33.58	130.64	1,231.07	3,155.09	5,626.35	5,525.79	100.56	55.951	
14,800.00	7,618.00	7,798.16	7,633.57	103.89	33.58	131.12	1,231.06	3,155.10	5,726.34	5,625.77	100.57	56.938	
14,900.00	7,618.00	7,799.09	7,634.51	105.40	33.58	131.58	1,231.05	3,155.10	5,826.33	5,725.74	100.59	57.924	
15,000.00	7,618.00	7,800.03	7,635.44	106.92	33.59	132.05	1,231.04	3,155.11	5,926.31	5,825.71	100.60	58.910	
15,100.00	7,618.00	7,800.96	7,636.37	108.45	33.59	132.50	1,231.03	3,155.12	6,026.30	5,925.69	100.62	59.895	
15,200.00	7,618.00	7,801.89	7,637.30	109.99	33.59	132.94	1,231.02	3,155.12	6,126.29	6,025.66	100.63	60.879	
15,300.00	7,618.00	7,802.82	7,638.23	111.54	33.59	133.38	1,231.01	3,155.13	6,226.28	6,125.64	100.65	61.862	
15,400.00	7,618.00	7,803.74	7,639.15	113.09	33.60	133.81	1,231.00	3,155.13	6,326.27	6,225.61	100.66	62.845	
15,500.00	7,618.00	7,804.67	7,640.08	114.65	33.60	134.24	1,230.99	3,155.14	6,426.26	6,325.58	100.68	63.828	
15,600.00	7,618.00	7,805.59	7,641.00	116.21	33.60	134.66	1,230.98	3,155.14	6,526.25	6,425.55	100.70	64.810	
15,700.00	7,618.00	7,806.51	7,641.92	117.78	33.60	135.07	1,230.97	3,155.15	6,626.24	6,525.53	100.72	65.791	
15,800.00	7,618.00	7,807.43	7,642.84	119.36	33.61	135.48	1,230.97	3,155.15	6,726.23	6,625.50	100.74	66.771	
15,900.00	7,618.00	7,808.35	7,643.76	120.94	33.61	135.87	1,230.96	3,155.16	6,826.22	6,725.47	100.76	67.751	
16,000.00	7,618.00	7,809.26	7,644.68	122.53	33.61	136.27	1,230.95	3,155.17	6,926.22	6,825.44	100.77	68.730	
16,100.00	7,618.00	7,810.18	7,645.59	124.12	33.61	136.65	1,230.94	3,155.17	7,026.21	6,925.41	100.79	69.708	
16,200.00	7,618.00	7,811.09	7,646.50	125.72	33.62	137.03	1,230.93	3,155.18	7,126.20	7,025.38	100.82	70.686	
16,300.00	7,618.00	7,812.00	7,647.41	127.32	33.62	137.41	1,230.92	3,155.18	7,226.19	7,125.35	100.84	71.662	
16,400.00	7,618.00	7,812.91	7,648.32	128.93	33.62	137.78	1,230.91	3,155.19	7,326.18	7,225.32	100.86	72.638	
16,500.00	7,618.00	7,813.82	7,649.23	130.54	33.62	138.14	1,230.90	3,155.20	7,426.17	7,325.29	100.88	73.614	
16,600.00	7,618.00	7,814.72	7,650.14	132.15	33.63	138.50	1,230.89	3,155.20	7,526.16	7,425.26	100.90	74.588	
16,700.00	7,618.00	7,815.63	7,651.04	133.77	33.63	138.85	1,230.89	3,155.21	7,626.15	7,525.23	100.93	75.562	
16,800.00	7,618.00	7,816.53	7,651.94	135.39	33.63	139.20	1,230.88	3,155.21	7,726.15	7,625.20	100.95	76.535	
16,900.00	7,618.00	7,817.43	7,652.85	137.01	33.63	139.54	1,230.87	3,155.22	7,826.14	7,725.17	100.97	77.508	
17,000.00	7,618.00	7,818.33	7,653.75	138.64	33.64	139.87	1,230.86	3,155.23	7,926.13	7,825.13	101.00	78.479	
17,100.00	7,618.00	7,819.23	7,654.64	140.27	33.64	140.21	1,230.85	3,155.23	8,026.12	7,925.10	101.02	79.450	
17,200.00	7,618.00	7,820.13	7,655.54	141.91	33.64	140.53	1,230.84	3,155.24	8,126.11	8,025.07	101.05	80.419	
17,300.00	7,618.00	7,821.02	7,656.44	143.55	33.64	140.85	1,230.83	3,155.25	8,226.11	8,125.03	101.07	81.388	
17,400.00	7,618.00	7,821.92	7,657.33	145.19	33.64	141.17	1,230.82	3,155.25	8,326.10	8,225.00	101.10	82.357	
17,500.00	7,618.00	7,822.81	7,658.22	146.83	33.65	141.48	1,230.82	3,155.26	8,426.09	8,324.97	101.12	83.324	
17,600.00	7,618.00	7,823.70	7,659.11	148.48	33.65	141.79	1,230.81	3,155.27	8,526.08	8,424.93	101.15	84.290	
17,700.00	7,618.00	7,824.59	7,660.00	150.13	33.65	142.09	1,230.80	3,155.27	8,626.08	8,524.90	101.18	85.256	
17,800.00	7,618.00	7,825.48	7,660.89	151.78	33.65	142.39	1,230.79	3,155.28	8,726.07	8,624.86	101.21	86.221	
17,900.00	7,618.00	7,826.36	7,661.77	153.43	33.66	142.68	1,230.78	3,155.29	8,826.06	8,724.83	101.23	87.184	
18,000.00	7,618.00	7,827.25	7,662.66	155.09	33.66	142.97	1,230.77	3,155.29	8,926.05	8,824.79	101.26	88.147	
18,100.00	7,618.00	7,828.13	7,663.54	156.75	33.66	143.25	1,230.77	3,155.30	9,026.05	8,924.75	101.29	89.109	
18,200.00	7,618.00	7,829.01	7,664.42	158.41	33.66	143.54	1,230.76	3,155.31	9,126.04	9,024.72	101.32	90.071	
18,300.00	7,618.00	7,829.89	7,665.30	160.07	33.67	143.81	1,230.75	3,155.31	9,226.03	9,124.68	101.35	91.031	
18,400.00	7,618.00	7,825.00	7,660.41	161.74	33.65	142.23	1,230.80	3,155.28	9,326.03	9,224.65	101.38	91.994	
18,500.00	7,618.00	7,825.00	7,660.41	163.41	33.65	142.23	1,230.80	3,155.28	9,426.02	9,324.61	101.41	92.953	
18,600.00	7,618.00	7,825.00	7,660.41	165.08	33.65	142.23	1,230.80	3,155.28	9,526.01	9,424.58	101.44	93.911	
18,700.00	7,618.00	7,825.00	7,660.41	166.75	33.65	142.23	1,230.80	3,155.28	9,626.01	9,524.54	101.47	94.868	
18,711.30	7,618.00	7,825.00	7,660.41	166.94	33.65	142.23	1,230.80	3,155.28	9,637.31	9,535.84	101.47	94.976	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	70.42	753.80	2,118.72	2,249.21				
100.00	100.00	79.10	79.10	0.13	0.13	70.42	753.49	2,118.43	2,248.54	2,248.28	0.26	8,668.099	
200.00	200.00	166.28	166.28	0.49	0.41	70.43	753.05	2,117.88	2,247.79	2,246.89	0.90	2,494.957	
300.00	300.00	274.91	274.90	0.85	0.79	70.41	753.35	2,117.26	2,247.36	2,245.71	1.64	1,366.740	
400.00	400.00	381.01	381.00	1.21	1.17	70.41	753.28	2,116.35	2,246.53	2,244.15	2.38	943.620	
500.00	500.00	537.74	537.66	1.57	1.73	70.48	749.39	2,114.33	2,244.62	2,241.32	3.30	681.164	
600.00	600.00	662.09	661.67	1.93	2.18	70.66	740.94	2,111.57	2,240.19	2,236.09	4.10	546.176	
700.00	700.00	741.55	740.70	2.29	2.48	70.86	732.71	2,110.95	2,236.03	2,231.28	4.75	470.563	
800.00	800.00	820.08	818.56	2.64	2.78	71.11	722.53	2,111.82	2,232.82	2,227.41	5.41	412.801	
900.00	900.00	876.10	873.92	3.00	3.01	71.33	714.14	2,113.62	2,231.07	2,225.08	5.99	372.460	
1,000.00	999.98	920.00	917.20	3.36	3.18	14.34	707.22	2,116.01	2,229.75	2,223.23	6.52	342.100	
1,100.00	1,099.84	989.81	985.78	3.71	3.47	14.71	695.37	2,121.45	2,226.93	2,219.76	7.16	310.931	
1,200.00	1,199.45	1,042.46	1,037.26	4.07	3.70	15.04	685.74	2,126.86	2,222.76	2,215.03	7.73	287.394	
1,300.00	1,298.70	1,109.00	1,102.01	4.44	3.99	15.50	673.18	2,135.61	2,217.72	2,209.33	8.38	264.509	
1,400.00	1,397.47	1,146.72	1,138.59	4.82	4.17	15.80	666.00	2,141.37	2,211.31	2,202.41	8.90	248.441	
1,500.00	1,495.62	1,212.24	1,202.05	5.22	4.47	16.31	653.82	2,152.17	2,203.57	2,194.01	9.56	230.568	
1,600.00	1,593.06	1,279.00	1,266.78	5.65	4.79	16.85	642.21	2,163.67	2,193.91	2,183.68	10.23	214.561	
1,700.00	1,689.64	1,349.33	1,334.89	6.11	5.13	17.45	630.32	2,176.57	2,182.44	2,171.52	10.92	199.828	
1,800.00	1,785.27	1,418.07	1,401.17	6.61	5.48	18.09	618.32	2,190.27	2,169.35	2,157.73	11.62	186.677	
1,900.00	1,879.82	1,498.95	1,478.76	7.15	5.91	18.91	603.27	2,207.41	2,154.38	2,141.97	12.41	173.609	
2,000.00	1,973.17	1,595.04	1,570.81	7.73	6.43	19.95	584.74	2,227.83	2,136.61	2,123.31	13.31	160.569	
2,100.00	2,065.21	1,684.83	1,656.83	8.37	6.94	21.00	567.51	2,247.01	2,116.34	2,102.15	14.19	149.183	
2,200.00	2,155.84	1,777.28	1,745.47	9.07	7.47	22.16	549.91	2,266.46	2,093.23	2,078.14	15.10	138.630	
2,300.00	2,244.94	1,851.49	1,816.59	9.82	7.89	23.19	535.98	2,282.45	2,068.14	2,052.21	15.93	129.853	
2,400.00	2,332.39	1,964.78	1,925.35	10.64	8.55	24.77	514.94	2,306.19	2,040.14	2,023.14	17.01	119.961	
2,500.00	2,418.11	2,039.97	1,997.55	11.53	8.98	25.99	500.97	2,321.83	2,009.82	1,991.93	17.89	112.322	
2,558.91	2,467.74	2,080.28	2,036.20	12.08	9.22	26.71	493.45	2,330.44	1,991.23	1,972.82	18.41	108.159	
2,600.00	2,502.13	2,108.29	2,063.04	12.47	9.39	27.09	488.20	2,336.53	1,978.23	1,959.45	18.78	105.364	
2,700.00	2,585.83	2,214.71	2,164.85	13.45	10.02	28.61	467.51	2,359.56	1,947.18	1,927.26	19.92	97.747	
2,800.00	2,669.53	2,306.61	2,252.77	14.44	10.58	29.98	448.67	2,378.54	1,916.22	1,895.20	21.02	91.171	
2,900.00	2,753.22	2,376.87	2,320.05	15.46	11.01	31.04	434.57	2,393.11	1,886.45	1,864.44	22.01	85.711	
3,000.00	2,836.92	2,456.91	2,396.70	16.48	11.49	32.26	419.27	2,410.29	1,858.38	1,835.30	23.09	80.491	
3,100.00	2,920.62	2,545.51	2,481.55	17.52	12.03	33.65	401.99	2,429.07	1,831.26	1,807.01	24.25	75.503	
3,200.00	3,004.32	2,628.42	2,560.80	18.56	12.54	35.00	385.08	2,446.59	1,805.36	1,779.94	25.42	71.017	
3,300.00	3,088.01	2,712.56	2,641.31	19.61	13.06	36.39	368.27	2,464.40	1,780.75	1,754.12	26.63	66.877	
3,400.00	3,171.71	2,795.33	2,720.60	20.67	13.56	37.77	352.34	2,482.01	1,757.51	1,729.66	27.85	63.110	
3,500.00	3,255.41	2,884.30	2,805.85	21.73	14.10	39.28	335.30	2,500.87	1,735.54	1,706.40	29.14	59.558	
3,600.00	3,339.10	2,994.16	2,911.35	22.80	14.76	41.19	313.98	2,522.94	1,714.02	1,683.41	30.61	55.999	
3,700.00	3,422.80	3,057.18	2,971.88	23.87	15.14	42.30	301.99	2,535.69	1,694.08	1,662.30	31.78	53.300	
3,800.00	3,506.50	3,137.83	3,049.23	24.94	15.63	43.74	286.77	2,552.73	1,676.39	1,643.28	33.11	50.636	
3,900.00	3,590.20	3,227.78	3,135.45	26.02	16.18	45.38	269.23	2,571.43	1,660.11	1,625.58	34.53	48.082	
4,000.00	3,673.89	3,316.10	3,220.28	27.10	16.71	46.99	252.79	2,589.68	1,645.11	1,609.15	35.96	45.752	
4,100.00	3,757.59	3,399.25	3,300.17	28.18	17.22	48.53	237.32	2,606.80	1,631.69	1,594.31	37.37	43.660	
4,200.00	3,841.29	3,478.68	3,376.44	29.26	17.70	50.02	222.46	2,623.28	1,620.09	1,581.31	38.78	41.772	
4,300.00	3,924.99	3,555.30	3,449.82	30.35	18.17	51.49	207.23	2,639.17	1,610.59	1,570.39	40.20	40.065	
4,400.00	4,008.68	3,636.51	3,527.55	31.44	18.67	53.06	191.05	2,656.24	1,603.14	1,561.47	41.67	38.472	
4,500.00	4,092.38	3,739.60	3,626.46	32.52	19.30	55.04	171.74	2,677.95	1,597.06	1,553.73	43.33	36.855	
4,600.00	4,176.08	3,804.56	3,688.77	33.62	19.70	56.29	159.55	2,691.70	1,592.85	1,548.16	44.69	35.645	
4,700.00	4,259.77	3,897.01	3,777.27	34.71	20.27	58.09	141.40	2,711.31	1,590.88	1,544.58	46.30	34.362	
4,771.97	4,320.01	3,954.73	3,832.62	35.49	20.63	59.22	130.15	2,723.23	1,590.25	1,542.86	47.39	33.560	
4,800.00	4,343.47	3,974.13	3,851.21	35.80	20.75	59.59	126.39	2,727.33	1,590.35	1,542.57	47.78	33.284	
4,900.00	4,427.17	4,054.32	3,927.93	36.89	21.25	61.14	110.92	2,744.77	1,592.27	1,542.97	49.30	32.300	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,510.87	4,156.89	4,026.21	37.99	21.88	63.13	91.14	2,766.44	1,595.58	1,544.55	51.03	31.265	
5,100.00	4,594.56	4,246.75	4,112.64	39.08	22.42	64.83	75.42	2,785.38	1,599.66	1,547.01	52.65	30.384	
5,200.00	4,678.26	4,322.41	4,185.29	40.18	22.88	66.26	61.70	2,801.41	1,605.91	1,551.78	54.13	29.667	
5,300.00	4,761.96	4,401.63	4,261.30	41.28	23.36	67.78	46.49	2,817.76	1,614.15	1,558.49	55.66	29.003	
5,400.00	4,845.66	4,464.74	4,321.69	42.37	23.76	68.97	34.07	2,831.24	1,624.90	1,567.90	57.00	28.505	
5,500.00	4,929.35	4,535.55	4,389.21	43.47	24.21	70.30	19.79	2,847.10	1,638.30	1,579.88	58.42	28.043	
5,600.00	5,013.05	4,606.02	4,456.26	44.57	24.67	71.64	4.58	2,862.51	1,653.96	1,594.14	59.83	27.646	
5,700.00	5,096.75	4,676.25	4,522.89	45.67	25.13	72.95	-11.10	2,878.23	1,672.09	1,610.87	61.22	27.315	
5,800.00	5,180.45	4,835.55	4,675.28	46.77	26.13	75.85	-43.00	2,911.90	1,689.08	1,625.43	63.65	26.539	
5,900.00	5,264.14	4,964.50	4,799.62	47.87	26.89	78.16	-66.88	2,936.28	1,706.00	1,640.34	65.67	25.979	
6,000.00	5,347.84	5,135.21	4,966.00	48.97	27.79	81.19	-93.64	2,963.45	1,720.72	1,652.71	68.02	25.299	
6,100.00	5,431.54	5,409.45	5,237.29	50.07	28.93	85.93	-118.51	2,993.51	1,728.99	1,658.23	70.75	24.437	
6,200.00	5,515.23	5,600.28	5,427.78	51.17	29.52	89.32	-125.76	3,001.46	1,732.64	1,660.04	72.60	23.867	
6,300.00	5,598.93	5,717.21	5,544.69	52.27	29.82	91.40	-126.71	3,003.43	1,734.94	1,660.80	74.14	23.402	
6,400.00	5,682.63	5,814.87	5,642.35	53.38	30.06	93.15	-126.71	3,004.03	1,737.90	1,662.29	75.61	22.986	
6,500.00	5,766.33	5,893.48	5,720.95	54.48	30.24	94.56	-126.75	3,004.10	1,742.37	1,665.35	77.02	22.621	
6,600.00	5,850.02	5,983.39	5,810.86	55.58	30.45	96.17	-126.76	3,004.19	1,748.54	1,670.12	78.42	22.298	
6,700.00	5,933.72	6,073.65	5,901.13	56.68	30.65	97.77	-126.35	3,004.31	1,756.02	1,676.25	79.77	22.013	
6,800.00	6,017.42	6,155.93	5,983.40	57.79	30.83	99.24	-126.06	3,003.84	1,765.03	1,683.96	81.07	21.772	
6,900.00	6,101.12	6,237.60	6,065.07	58.89	31.01	100.68	-125.91	3,003.38	1,775.81	1,693.49	82.32	21.572	
7,000.00	6,184.81	6,319.10	6,146.57	59.99	31.19	102.10	-125.67	3,003.32	1,788.28	1,704.74	83.53	21.408	
7,100.00	6,268.51	6,404.07	6,231.54	61.10	31.39	103.56	-125.60	3,003.17	1,802.45	1,717.74	84.70	21.280	
7,200.00	6,352.21	6,500.83	6,328.30	62.20	31.60	105.22	-125.19	3,002.28	1,817.72	1,731.88	85.85	21.174	
7,300.00	6,435.90	6,588.38	6,415.83	63.31	31.81	106.67	-123.95	3,002.77	1,834.02	1,747.08	86.94	21.095	
7,400.00	6,519.60	6,659.95	6,487.38	64.41	31.99	107.82	-123.08	3,003.84	1,852.06	1,764.09	87.97	21.053	
7,500.00	6,603.30	6,741.70	6,569.13	65.51	32.20	109.12	-122.47	3,004.93	1,871.79	1,782.81	88.98	21.036	
7,600.00	6,687.00	6,830.52	6,657.93	66.62	32.43	110.50	-121.73	3,006.53	1,892.83	1,802.86	89.98	21.037	
7,700.00	6,770.69	6,910.66	6,738.04	67.72	32.64	111.70	-120.91	3,008.58	1,915.02	1,824.12	90.91	21.065	
7,800.00	6,854.39	6,984.73	6,812.10	68.83	32.83	112.84	-120.67	3,008.89	1,938.79	1,847.03	91.76	21.129	
7,900.00	6,938.09	7,064.63	6,892.00	69.93	33.03	114.07	-120.90	3,008.57	1,964.21	1,871.64	92.57	21.219	
7,933.18	6,965.86	7,096.66	6,924.04	70.30	33.11	114.55	-120.95	3,008.35	1,972.87	1,880.03	92.85	21.249	
7,950.00	6,980.00	7,112.98	6,940.35	70.49	33.14	112.51	-120.95	3,008.22	1,977.05	1,884.07	92.99	21.262	
8,000.00	7,022.68	7,160.89	6,988.26	71.01	33.26	105.71	-120.85	3,007.80	1,986.75	1,893.36	93.39	21.274	
8,050.00	7,066.06	7,209.04	7,036.41	71.51	33.37	97.98	-120.64	3,007.34	1,992.34	1,898.56	93.78	21.244	
8,100.00	7,109.82	7,262.02	7,089.39	71.97	33.49	89.74	-120.22	3,006.75	1,993.74	1,899.56	94.18	21.170	
8,150.00	7,153.63	7,316.34	7,143.70	72.38	33.62	81.44	-119.50	3,006.05	1,990.85	1,896.29	94.56	21.054	
8,200.00	7,197.14	7,347.88	7,175.23	72.74	33.70	73.25	-119.10	3,005.68	1,983.94	1,889.09	94.85	20.916	
8,250.00	7,240.04	7,379.68	7,207.03	73.05	33.77	65.89	-118.87	3,005.44	1,973.26	1,878.14	95.12	20.744	
8,300.00	7,281.99	7,411.46	7,238.81	73.31	33.85	59.55	-118.81	3,005.33	1,958.87	1,863.50	95.37	20.540	
8,350.00	7,322.67	7,455.43	7,282.77	73.52	33.96	54.47	-118.80	3,005.15	1,940.69	1,845.06	95.63	20.293	
8,400.00	7,361.77	7,497.39	7,324.73	73.68	34.06	50.38	-118.71	3,004.78	1,918.72	1,822.86	95.86	20.015	
8,450.00	7,399.01	7,534.86	7,362.20	73.78	34.15	47.16	-118.58	3,004.39	1,893.13	1,797.08	96.06	19.708	
8,500.00	7,434.08	7,569.85	7,397.19	73.85	34.24	44.72	-118.48	3,004.16	1,864.14	1,767.92	96.22	19.374	
8,550.00	7,466.74	7,602.89	7,430.24	73.87	34.32	43.00	-118.38	3,004.06	1,831.94	1,735.58	96.36	19.011	
8,600.00	7,496.72	7,635.25	7,462.59	73.85	34.40	42.01	-118.25	3,004.00	1,796.71	1,700.23	96.48	18.622	
8,650.00	7,523.80	7,664.35	7,491.69	73.79	34.47	41.68	-118.10	3,003.97	1,758.69	1,662.11	96.58	18.210	
8,700.00	7,547.77	7,689.99	7,517.33	73.70	34.54	42.06	-117.94	3,003.95	1,718.15	1,621.50	96.64	17.778	
8,750.00	7,568.45	7,707.88	7,535.22	73.58	34.59	43.10	-117.83	3,003.94	1,675.39	1,578.72	96.67	17.330	
8,800.00	7,585.69	7,722.32	7,549.66	73.43	34.62	45.17	-117.77	3,003.95	1,630.74	1,534.06	96.68	16.867	
8,850.00	7,599.35	7,733.85	7,561.19	73.26	34.65	48.78	-117.73	3,003.96	1,584.48	1,487.81	96.67	16.390	
8,900.00	7,609.33	7,742.33	7,569.67	73.07	34.68	54.94	-117.72	3,003.98	1,536.93	1,440.27	96.65	15.901	
8,950.00	7,615.55	7,747.64	7,574.98	72.87	34.69	65.94	-117.71	3,003.99	1,488.38	1,391.75	96.63	15.403	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	7,749.71	7,577.05	72.65	34.70	86.53	-117.71	3,003.99	1,439.18	1,342.59	96.60	14.899	
9,006.60	7,618.00	7,749.74	7,577.08	72.62	34.70	90.29	-117.71	3,003.99	1,432.65	1,336.06	96.59	14.832	
9,100.00	7,618.00	7,749.70	7,577.04	72.22	34.70	90.28	-117.71	3,003.99	1,340.35	1,243.83	96.52	13.886	
9,200.00	7,618.00	7,749.66	7,577.00	71.80	34.70	90.27	-117.71	3,003.99	1,241.70	1,145.27	96.43	12.876	
9,300.00	7,618.00	7,749.62	7,576.96	71.41	34.70	90.26	-117.71	3,003.99	1,143.29	1,046.97	96.32	11.870	
9,400.00	7,618.00	7,749.58	7,576.91	71.04	34.70	90.25	-117.71	3,003.99	1,045.17	949.00	96.17	10.867	
9,500.00	7,618.00	7,749.53	7,576.87	70.68	34.70	90.24	-117.71	3,003.99	947.46	851.47	95.98	9.871	
9,600.00	7,618.00	7,749.49	7,576.83	70.35	34.70	90.22	-117.71	3,003.99	850.27	754.54	95.73	8.882	
9,700.00	7,618.00	7,749.44	7,576.78	70.04	34.70	90.21	-117.71	3,003.99	753.82	658.45	95.37	7.905	
9,800.00	7,618.00	7,749.40	7,576.74	69.75	34.70	90.20	-117.71	3,003.99	658.42	563.59	94.84	6.943	
9,900.00	7,618.00	7,749.35	7,576.69	69.47	34.70	90.19	-117.71	3,003.99	564.63	470.60	94.03	6.005	
10,000.00	7,618.00	7,749.30	7,576.64	69.22	34.70	90.17	-117.71	3,003.99	473.38	380.67	92.71	5.106	
10,100.00	7,618.00	7,749.25	7,576.59	68.99	34.70	90.16	-117.71	3,003.99	386.49	296.07	90.42	4.274	
10,200.00	7,618.00	7,749.20	7,576.54	68.78	34.70	90.15	-117.71	3,003.99	307.66	221.38	86.29	3.566	
10,300.00	7,618.00	7,749.15	7,576.49	68.59	34.70	90.13	-117.71	3,003.99	244.83	165.47	79.36	3.085	
10,400.00	7,618.00	7,749.10	7,576.44	68.42	34.70	90.12	-117.71	3,003.99	212.66	139.07	73.59	2.890	
10,423.58	7,618.00	7,749.08	7,576.42	68.38	34.70	90.11	-117.71	3,003.99	211.35	137.68	73.67	2.869	CC, ES, SF
10,500.00	7,618.00	7,749.04	7,576.38	68.28	34.70	90.10	-117.71	3,003.99	224.74	146.99	77.75	2.890	
10,600.00	7,618.00	7,748.99	7,576.33	68.16	34.70	90.09	-117.71	3,003.99	275.30	190.38	84.92	3.242	
10,700.00	7,618.00	7,748.93	7,576.27	68.06	34.70	90.07	-117.71	3,003.99	347.96	258.37	89.59	3.884	
10,800.00	7,618.00	7,748.87	7,576.21	67.99	34.70	90.06	-117.71	3,003.99	431.69	339.48	92.21	4.682	
10,900.00	7,618.00	7,748.81	7,576.15	67.95	34.69	90.04	-117.71	3,003.99	521.19	427.48	93.72	5.561	
11,000.00	7,618.00	7,748.75	7,576.09	67.95	34.69	90.02	-117.71	3,003.99	613.94	519.31	94.64	6.487	
11,100.00	7,618.00	7,748.69	7,576.03	67.97	34.69	90.01	-117.71	3,003.99	708.67	613.44	95.23	7.442	
11,200.00	7,618.00	7,748.62	7,575.96	68.04	34.69	89.99	-117.71	3,003.99	804.67	709.04	95.63	8.415	
11,300.00	7,618.00	7,748.56	7,575.90	68.15	34.69	89.97	-117.71	3,003.99	901.54	805.63	95.91	9.400	
11,400.00	7,618.00	7,748.49	7,575.83	68.30	34.69	89.95	-117.71	3,003.99	999.03	902.91	96.12	10.393	
11,500.00	7,618.00	7,748.42	7,575.76	68.50	34.69	89.94	-117.71	3,003.99	1,096.97	1,000.69	96.28	11.394	
11,600.00	7,618.00	7,748.35	7,575.69	68.75	34.69	89.92	-117.71	3,003.99	1,195.25	1,098.85	96.40	12.399	
11,700.00	7,618.00	7,748.28	7,575.62	69.06	34.69	89.90	-117.71	3,003.99	1,293.80	1,197.30	96.50	13.408	
11,800.00	7,618.00	7,748.20	7,575.54	69.44	34.69	89.88	-117.71	3,003.99	1,392.55	1,295.97	96.58	14.419	
11,900.00	7,618.00	7,748.13	7,575.47	69.88	34.69	89.86	-117.71	3,003.99	1,491.47	1,394.83	96.64	15.433	
12,000.00	7,618.00	7,748.05	7,575.39	70.39	34.69	89.83	-117.71	3,003.99	1,590.52	1,493.82	96.70	16.448	
12,100.00	7,618.00	7,747.97	7,575.30	70.97	34.69	89.81	-117.71	3,003.99	1,689.69	1,592.94	96.75	17.465	
12,200.00	7,618.00	7,747.88	7,575.22	71.63	34.69	89.79	-117.71	3,003.99	1,788.95	1,692.16	96.79	18.483	
12,300.00	7,618.00	7,747.80	7,575.13	72.35	34.69	89.77	-117.71	3,003.99	1,888.28	1,791.46	96.82	19.502	
12,400.00	7,618.00	7,747.71	7,575.05	73.15	34.69	89.74	-117.71	3,003.99	1,987.69	1,890.83	96.86	20.522	
12,500.00	7,618.00	7,747.61	7,574.95	74.01	34.69	89.72	-117.71	3,003.99	2,087.15	1,990.26	96.89	21.542	
12,600.00	7,618.00	7,747.52	7,574.86	74.93	34.69	89.69	-117.71	3,003.98	2,186.66	2,089.74	96.91	22.563	
12,700.00	7,618.00	7,747.42	7,574.76	75.91	34.69	89.66	-117.71	3,003.98	2,286.21	2,189.27	96.94	23.584	
12,800.00	7,618.00	7,747.32	7,574.66	76.95	34.69	89.64	-117.71	3,003.98	2,385.80	2,288.84	96.96	24.605	
12,900.00	7,618.00	7,747.22	7,574.56	78.04	34.69	89.61	-117.71	3,003.98	2,485.42	2,388.44	96.99	25.627	
13,000.00	7,618.00	7,747.11	7,574.45	79.16	34.69	89.58	-117.71	3,003.98	2,585.07	2,488.07	97.01	26.648	
13,100.00	7,618.00	7,747.00	7,574.34	80.33	34.69	89.55	-117.71	3,003.98	2,684.75	2,587.72	97.03	27.670	
13,200.00	7,618.00	7,746.88	7,574.22	81.54	34.69	89.52	-117.71	3,003.98	2,784.45	2,687.40	97.05	28.692	
13,300.00	7,618.00	7,746.77	7,574.11	82.78	34.69	89.49	-117.71	3,003.98	2,884.17	2,787.10	97.07	29.713	
13,400.00	7,618.00	7,746.64	7,573.98	84.05	34.69	89.45	-117.71	3,003.98	2,983.91	2,886.83	97.09	30.735	
13,500.00	7,618.00	7,746.52	7,573.86	85.35	34.69	89.42	-117.71	3,003.98	3,083.67	2,986.56	97.11	31.756	
13,600.00	7,618.00	7,746.38	7,573.72	86.67	34.69	89.38	-117.71	3,003.98	3,183.44	3,086.32	97.12	32.777	
13,700.00	7,618.00	7,746.25	7,573.59	88.02	34.69	89.35	-117.71	3,003.98	3,283.23	3,186.08	97.14	33.798	
13,800.00	7,618.00	7,746.11	7,573.44	89.38	34.69	89.31	-117.71	3,003.98	3,383.03	3,285.87	97.16	34.819	
13,900.00	7,618.00	7,745.96	7,573.30	90.77	34.69	89.27	-117.71	3,003.98	3,482.84	3,385.66	97.18	35.839	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,618.00	7,745.80	7,573.14	92.17	34.69	89.23	-117.71	3,003.98	3,582.66	3,485.46	97.20	36.859	
14,100.00	7,618.00	7,745.64	7,572.98	93.59	34.69	89.18	-117.71	3,003.98	3,682.49	3,585.27	97.22	37.879	
14,200.00	7,618.00	7,745.48	7,572.82	95.02	34.69	89.14	-117.71	3,003.98	3,782.33	3,685.09	97.23	38.899	
14,300.00	7,618.00	7,745.31	7,572.65	96.47	34.69	89.09	-117.71	3,003.98	3,882.17	3,784.92	97.25	39.918	
14,400.00	7,618.00	7,745.13	7,572.46	97.93	34.69	89.04	-117.71	3,003.98	3,982.03	3,884.76	97.27	40.937	
14,500.00	7,618.00	7,744.94	7,572.28	99.41	34.68	88.99	-117.71	3,003.98	4,081.89	3,984.60	97.29	41.955	
14,600.00	7,618.00	7,744.74	7,572.08	100.89	34.68	88.94	-117.71	3,003.98	4,181.76	4,084.45	97.31	42.973	
14,700.00	7,618.00	7,744.53	7,571.87	102.38	34.68	88.88	-117.71	3,003.98	4,281.64	4,184.31	97.33	43.991	
14,800.00	7,618.00	7,744.32	7,571.66	103.89	34.68	88.82	-117.71	3,003.98	4,381.52	4,284.17	97.35	45.008	
14,900.00	7,618.00	7,744.09	7,571.43	105.40	34.68	88.76	-117.72	3,003.98	4,481.40	4,384.03	97.37	46.025	
15,000.00	7,618.00	7,743.86	7,571.20	106.92	34.68	88.70	-117.72	3,003.98	4,581.29	4,483.91	97.39	47.041	
15,100.00	7,618.00	7,743.61	7,570.95	108.45	34.68	88.63	-117.72	3,003.98	4,681.19	4,583.78	97.41	48.057	
15,200.00	7,618.00	7,743.35	7,570.69	109.99	34.68	88.56	-117.72	3,003.98	4,781.09	4,683.66	97.43	49.072	
15,300.00	7,618.00	7,743.07	7,570.41	111.54	34.68	88.48	-117.72	3,003.98	4,880.99	4,783.54	97.45	50.087	
15,400.00	7,618.00	7,742.78	7,570.12	113.09	34.68	88.41	-117.72	3,003.98	4,980.90	4,883.43	97.47	51.101	
15,500.00	7,618.00	7,742.47	7,569.81	114.65	34.68	88.32	-117.72	3,003.98	5,080.81	4,983.32	97.49	52.114	
15,600.00	7,618.00	7,742.15	7,569.49	116.21	34.68	88.24	-117.72	3,003.98	5,180.73	5,083.21	97.52	53.127	
15,700.00	7,618.00	7,741.80	7,569.14	117.78	34.68	88.14	-117.72	3,003.97	5,280.65	5,183.11	97.54	54.140	
15,800.00	7,618.00	7,741.44	7,568.78	119.36	34.68	88.04	-117.72	3,003.97	5,380.57	5,283.01	97.56	55.151	
15,900.00	7,618.00	7,741.05	7,568.39	120.94	34.67	87.94	-117.72	3,003.97	5,480.49	5,382.91	97.58	56.163	
16,000.00	7,618.00	7,740.64	7,567.98	122.53	34.67	87.83	-117.72	3,003.97	5,580.42	5,482.81	97.61	57.173	
16,100.00	7,618.00	7,740.20	7,567.54	124.12	34.67	87.71	-117.72	3,003.97	5,680.35	5,582.72	97.63	58.183	
16,200.00	7,618.00	7,739.73	7,567.07	125.72	34.67	87.58	-117.72	3,003.97	5,780.28	5,682.63	97.65	59.193	
16,300.00	7,618.00	7,739.22	7,566.56	127.32	34.67	87.44	-117.72	3,003.97	5,880.22	5,782.54	97.68	60.201	
16,400.00	7,618.00	7,738.68	7,566.02	128.93	34.67	87.30	-117.72	3,003.97	5,980.15	5,882.45	97.70	61.209	
16,500.00	7,618.00	7,738.09	7,565.43	130.54	34.67	87.14	-117.72	3,003.97	6,080.09	5,982.37	97.72	62.217	
16,600.00	7,618.00	7,737.46	7,564.80	132.15	34.66	86.97	-117.73	3,003.97	6,180.03	6,082.28	97.75	63.223	
16,700.00	7,618.00	7,736.77	7,564.11	133.77	34.66	86.78	-117.73	3,003.97	6,279.97	6,182.20	97.77	64.229	
16,800.00	7,618.00	7,736.02	7,563.36	135.39	34.66	86.58	-117.73	3,003.97	6,379.92	6,282.12	97.80	65.235	
16,900.00	7,618.00	7,735.21	7,562.55	137.01	34.66	86.36	-117.73	3,003.96	6,479.86	6,382.04	97.82	66.239	
17,000.00	7,618.00	7,734.31	7,561.65	138.64	34.66	86.12	-117.73	3,003.96	6,579.81	6,481.96	97.85	67.243	
17,100.00	7,618.00	7,733.33	7,560.67	140.27	34.65	85.85	-117.73	3,003.96	6,679.76	6,581.88	97.88	68.247	
17,200.00	7,618.00	7,732.23	7,559.57	141.91	34.65	85.56	-117.74	3,003.96	6,779.71	6,681.81	97.90	69.249	
17,300.00	7,618.00	7,731.02	7,558.36	143.55	34.65	85.23	-117.74	3,003.96	6,879.66	6,781.73	97.93	70.251	
17,400.00	7,618.00	7,729.66	7,557.00	145.19	34.64	84.86	-117.74	3,003.96	6,979.61	6,881.66	97.96	71.252	
17,500.00	7,618.00	7,728.12	7,555.46	146.83	34.64	84.45	-117.75	3,003.96	7,079.57	6,981.58	97.98	72.253	
17,600.00	7,618.00	7,726.38	7,553.72	148.48	34.64	83.98	-117.75	3,003.95	7,179.52	7,081.51	98.01	73.253	
17,700.00	7,618.00	7,724.38	7,551.72	150.13	34.63	83.45	-117.76	3,003.95	7,279.48	7,181.44	98.04	74.252	
17,800.00	7,618.00	7,722.07	7,549.41	151.78	34.62	82.83	-117.77	3,003.95	7,379.44	7,281.37	98.07	75.250	
17,900.00	7,618.00	7,719.36	7,546.70	153.43	34.62	82.11	-117.78	3,003.95	7,479.40	7,381.31	98.09	76.249	
18,000.00	7,618.00	7,716.15	7,543.49	155.09	34.61	81.26	-117.79	3,003.95	7,579.36	7,481.24	98.12	77.246	
18,100.00	7,618.00	7,712.27	7,539.61	156.75	34.60	80.23	-117.81	3,003.95	7,679.32	7,581.17	98.15	78.244	
18,200.00	7,618.00	7,707.50	7,534.84	158.41	34.58	78.98	-117.83	3,003.94	7,779.28	7,681.11	98.17	79.241	
18,300.00	7,618.00	7,701.49	7,528.83	160.07	34.57	77.42	-117.87	3,003.94	7,879.24	7,781.04	98.20	80.238	
18,400.00	7,618.00	7,693.68	7,521.02	161.74	34.55	75.42	-117.92	3,003.95	7,979.20	7,880.98	98.22	81.236	
18,500.00	7,618.00	7,693.00	7,520.34	163.41	34.55	75.25	-117.92	3,003.95	8,079.17	7,980.91	98.25	82.228	
18,600.00	7,618.00	7,693.00	7,520.34	165.08	34.55	75.25	-117.92	3,003.95	8,179.13	8,080.84	98.29	83.218	
18,700.00	7,618.00	7,693.00	7,520.34	166.75	34.55	75.25	-117.92	3,003.95	8,279.09	8,180.78	98.32	84.207	
18,711.30	7,618.00	7,693.00	7,520.34	166.94	34.55	75.25	-117.92	3,003.95	8,290.39	8,192.07	98.32	84.319	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	82.12	747.01	5,394.65	5,446.74				
100.00	100.00	1,152.00	1,134.43	0.13	4.79	81.00	831.93	5,254.78	5,436.10	5,431.31	4.79	1,134.354	
200.00	200.00	1,207.56	1,188.17	0.49	5.09	80.91	838.64	5,242.39	5,415.84	5,410.62	5.22	1,037.553	
300.00	300.00	1,257.50	1,236.64	0.85	5.36	80.83	844.38	5,231.84	5,396.56	5,390.83	5.73	942.134	
400.00	400.00	1,336.34	1,313.28	1.21	5.78	80.71	853.32	5,215.62	5,377.86	5,371.46	6.40	839.877	
500.00	500.00	1,456.03	1,429.45	1.57	6.43	80.51	867.90	5,190.78	5,359.15	5,351.86	7.29	735.522	
600.00	600.00	1,646.58	1,613.51	1.93	7.50	80.15	894.05	5,149.03	5,339.66	5,331.13	8.53	626.297	
700.00	700.00	1,720.00	1,684.34	2.29	7.92	80.01	903.95	5,132.43	5,319.40	5,310.18	9.22	576.849	
800.00	800.00	1,818.48	1,779.38	2.64	8.49	79.82	917.20	5,110.27	5,299.31	5,289.27	10.04	527.910	
900.00	900.00	1,884.98	1,843.70	3.00	8.86	79.70	925.58	5,095.61	5,279.58	5,268.88	10.70	493.244	
1,000.00	999.98	1,941.03	1,898.08	3.36	9.17	22.59	932.09	5,083.68	5,258.95	5,247.63	11.32	464.696	
1,100.00	1,099.84	1,994.04	1,949.65	3.71	9.46	22.69	937.87	5,072.91	5,236.00	5,224.09	11.91	439.454	
1,200.00	1,199.45	2,133.94	2,085.76	4.07	10.21	22.72	953.45	5,044.51	5,210.05	5,197.16	12.89	404.040	
1,300.00	1,298.70	2,241.62	2,190.18	4.44	10.80	22.83	966.41	5,021.65	5,180.24	5,166.49	13.74	376.956	
1,400.00	1,397.47	2,314.03	2,260.40	4.82	11.20	23.01	975.35	5,006.40	5,147.61	5,133.18	14.43	356.663	
1,500.00	1,495.62	2,385.33	2,329.66	5.22	11.59	23.24	983.91	4,991.79	5,112.44	5,097.32	15.12	338.163	
1,600.00	1,593.06	2,482.51	2,424.03	5.65	12.12	23.48	995.94	4,971.96	5,074.44	5,058.52	15.92	318.706	
1,700.00	1,689.64	2,579.61	2,518.21	6.11	12.65	23.77	1,008.35	4,951.84	5,033.28	5,016.55	16.73	300.833	
1,800.00	1,785.27	2,648.00	2,584.64	6.61	13.03	24.13	1,016.77	4,937.93	4,989.50	4,972.08	17.41	286.517	
1,900.00	1,879.82	2,723.62	2,658.27	7.15	13.43	24.55	1,025.28	4,922.94	4,943.18	4,925.06	18.12	272.754	
2,000.00	1,973.17	2,959.98	2,887.43	7.73	14.74	25.01	1,053.94	4,872.81	4,893.28	4,873.74	19.54	250.420	
2,100.00	2,065.21	3,022.00	2,947.34	8.37	15.09	25.57	1,061.72	4,858.77	4,839.22	4,819.00	20.22	239.377	
2,200.00	2,155.84	3,066.76	2,990.57	9.07	15.35	26.17	1,067.70	4,848.86	4,783.02	4,762.19	20.83	229.610	
2,300.00	2,244.94	3,122.10	3,043.98	9.82	15.67	26.83	1,075.78	4,836.82	4,724.77	4,703.27	21.50	219.719	
2,400.00	2,332.39	3,224.26	3,142.40	10.64	16.26	27.58	1,091.43	4,814.36	4,663.93	4,641.54	22.40	208.222	
2,500.00	2,418.11	3,282.66	3,198.64	11.53	16.61	28.39	1,100.56	4,801.52	4,600.73	4,577.61	23.11	199.051	
2,558.91	2,467.74	3,332.14	3,246.29	12.08	16.90	28.93	1,108.40	4,790.75	4,562.51	4,538.90	23.61	193.275	
2,600.00	2,502.13	3,384.51	3,296.70	12.47	17.21	29.00	1,116.59	4,779.17	4,535.44	4,511.42	24.03	188.776	
2,700.00	2,585.83	3,507.27	3,414.86	13.45	17.93	29.18	1,134.72	4,751.23	4,469.01	4,443.99	25.01	178.657	
2,800.00	2,669.53	3,597.94	3,502.32	14.44	18.46	29.34	1,146.23	4,730.28	4,402.08	4,376.22	25.86	170.218	
2,900.00	2,753.22	3,627.30	3,530.71	15.46	18.62	29.40	1,149.76	4,723.69	4,335.45	4,308.96	26.49	163.684	
3,000.00	2,836.92	3,679.00	3,580.81	16.48	18.91	29.51	1,155.93	4,712.51	4,269.50	4,242.29	27.21	156.918	
3,100.00	2,920.62	3,772.59	3,671.47	17.52	19.44	29.72	1,167.30	4,692.28	4,203.74	4,175.66	28.08	149.681	
3,200.00	3,004.32	3,822.29	3,719.56	18.56	19.72	29.82	1,173.52	4,681.40	4,137.75	4,108.93	28.83	143.547	
3,300.00	3,088.01	3,889.25	3,784.40	19.61	20.10	29.97	1,182.16	4,667.07	4,072.21	4,042.57	29.63	137.416	
3,400.00	3,171.71	3,987.65	3,879.58	20.67	20.65	30.19	1,194.63	4,645.41	4,006.13	3,975.59	30.55	131.145	
3,500.00	3,255.41	4,035.62	3,926.07	21.73	20.92	30.30	1,200.31	4,635.06	3,940.38	3,909.07	31.31	125.847	
3,600.00	3,339.10	4,080.19	3,969.38	22.80	21.16	30.42	1,205.27	4,625.80	3,875.19	3,843.12	32.07	120.827	
3,700.00	3,422.80	4,122.66	4,010.78	23.87	21.39	30.55	1,209.66	4,617.39	3,810.66	3,777.83	32.84	116.048	
3,800.00	3,506.50	4,166.52	4,053.65	24.94	21.61	30.69	1,213.84	4,609.12	3,746.82	3,713.21	33.61	111.464	
3,900.00	3,590.20	4,212.40	4,098.62	26.02	21.83	30.85	1,217.73	4,600.92	3,683.66	3,649.26	34.40	107.072	
4,000.00	3,673.89	4,243.00	4,128.69	27.10	21.98	30.96	1,220.05	4,595.70	3,621.24	3,586.07	35.17	102.955	
4,100.00	3,757.59	4,291.28	4,176.24	28.18	22.20	31.15	1,223.32	4,588.01	3,559.62	3,523.64	35.98	98.925	
4,200.00	3,841.29	4,337.00	4,221.41	29.26	22.40	31.35	1,226.02	4,581.47	3,499.03	3,462.23	36.80	95.076	
4,300.00	3,924.99	4,365.32	4,249.44	30.35	22.51	31.48	1,227.54	4,577.76	3,439.40	3,401.80	37.60	91.479	
4,400.00	4,008.68	4,403.26	4,287.06	31.44	22.67	31.65	1,229.48	4,573.22	3,380.82	3,342.40	38.42	87.988	
4,500.00	4,092.38	4,447.64	4,331.13	32.52	22.84	31.87	1,231.57	4,568.47	3,323.28	3,284.01	39.27	84.621	
4,600.00	4,176.08	4,505.73	4,388.89	33.62	23.05	32.17	1,233.84	4,562.74	3,266.49	3,226.34	40.15	81.348	
4,700.00	4,259.77	4,555.61	4,438.55	34.71	23.23	32.44	1,235.42	4,558.23	3,210.44	3,169.40	41.04	78.234	
4,800.00	4,343.47	4,602.50	4,485.27	35.80	23.39	32.70	1,236.83	4,554.50	3,155.36	3,113.43	41.93	75.259	
4,900.00	4,427.17	4,649.82	4,532.45	36.89	23.54	32.97	1,238.10	4,551.25	3,101.29	3,058.46	42.83	72.410	
5,000.00	4,510.87	4,710.00	4,592.54	37.99	23.73	33.34	1,239.09	4,547.92	3,048.33	3,004.56	43.77	69.648	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	4,753.14	4,635.63	39.08	23.85	33.62	1,239.34	4,546.00	2,996.29	2,951.60	44.69	67.046	
5,200.00	4,678.26	4,812.12	4,694.57	40.18	24.02	34.03	1,239.08	4,543.82	2,945.17	2,899.52	45.65	64.509	
5,300.00	4,761.96	4,874.69	4,757.12	41.28	24.19	34.47	1,238.79	4,541.96	2,894.87	2,848.23	46.64	62.066	
5,400.00	4,845.66	4,927.44	4,809.84	42.37	24.32	34.84	1,238.82	4,540.77	2,845.48	2,797.85	47.63	59.743	
5,500.00	4,929.35	4,975.03	4,857.44	43.47	24.44	35.19	1,238.80	4,540.30	2,797.35	2,748.73	48.62	57.530	
5,600.00	5,013.05	5,049.55	4,931.95	44.57	24.62	35.75	1,238.69	4,540.29	2,750.30	2,700.62	49.68	55.358	
5,700.00	5,096.75	5,145.46	5,027.87	45.67	24.85	36.49	1,238.56	4,540.10	2,703.40	2,652.60	50.80	53.213	
5,800.00	5,180.45	5,240.53	5,122.93	46.77	25.09	37.24	1,238.49	4,539.40	2,656.36	2,604.41	51.95	51.130	
5,900.00	5,264.14	5,324.29	5,206.68	47.87	25.31	37.94	1,238.36	4,538.58	2,609.44	2,556.33	53.11	49.129	
6,000.00	5,347.84	5,407.85	5,290.24	48.97	25.53	38.65	1,238.35	4,537.82	2,562.92	2,508.62	54.30	47.198	
6,100.00	5,431.54	5,496.23	5,378.62	50.07	25.76	39.42	1,238.32	4,536.90	2,516.65	2,461.13	55.53	45.325	
6,200.00	5,515.23	5,588.36	5,470.74	51.17	26.01	40.27	1,237.96	4,535.68	2,470.54	2,413.76	56.79	43.507	
6,300.00	5,598.93	5,682.84	5,565.21	52.27	26.27	41.18	1,237.18	4,533.97	2,424.45	2,366.37	58.08	41.741	
6,400.00	5,682.63	5,770.99	5,653.32	53.38	26.51	42.06	1,236.41	4,532.03	2,378.48	2,319.07	59.40	40.039	
6,500.00	5,766.33	5,853.23	5,735.54	54.48	26.74	42.92	1,235.66	4,530.16	2,332.93	2,272.17	60.75	38.400	
6,600.00	5,850.02	5,934.82	5,817.11	55.58	26.96	43.79	1,234.76	4,528.28	2,287.86	2,225.72	62.14	36.819	
6,700.00	5,933.72	6,006.35	5,888.62	56.68	27.16	44.59	1,233.90	4,526.83	2,243.57	2,180.02	63.55	35.306	
6,800.00	6,017.42	6,088.08	5,970.33	57.79	27.38	45.53	1,232.92	4,525.42	2,200.09	2,135.08	65.01	33.844	
6,900.00	6,101.12	6,170.94	6,053.17	58.89	27.61	46.50	1,232.09	4,523.97	2,157.17	2,090.66	66.51	32.434	
7,000.00	6,184.81	6,255.46	6,137.68	59.99	27.85	47.52	1,231.68	4,522.55	2,114.87	2,046.82	68.06	31.076	
7,100.00	6,268.51	6,348.37	6,230.57	61.10	28.12	48.67	1,231.86	4,520.87	2,073.04	2,003.38	69.65	29.762	
7,200.00	6,352.21	6,433.98	6,316.15	62.20	28.38	49.73	1,233.06	4,519.05	2,031.41	1,960.14	71.27	28.503	
7,300.00	6,435.90	6,507.33	6,389.48	63.31	28.60	50.67	1,234.02	4,517.73	1,990.75	1,917.83	72.92	27.302	
7,400.00	6,519.60	6,580.62	6,462.77	64.41	28.82	51.65	1,234.75	4,516.74	1,951.24	1,876.64	74.60	26.155	
7,500.00	6,603.30	6,654.40	6,536.54	65.51	29.04	52.67	1,235.12	4,516.04	1,912.94	1,836.60	76.34	25.060	
7,600.00	6,687.00	6,732.85	6,614.99	66.62	29.26	53.79	1,235.08	4,515.52	1,875.83	1,797.71	78.12	24.011	
7,700.00	6,770.69	6,811.49	6,693.63	67.72	29.48	54.96	1,234.94	4,515.13	1,839.80	1,759.85	79.96	23.010	
7,800.00	6,854.39	6,891.03	6,773.16	68.83	29.70	56.18	1,234.50	4,514.90	1,805.00	1,723.16	81.83	22.057	
7,900.00	6,938.09	6,974.12	6,856.25	69.93	29.93	57.49	1,234.07	4,514.70	1,771.26	1,687.51	83.76	21.148	
7,933.18	6,965.86	7,000.39	6,882.52	70.30	30.00	57.91	1,233.92	4,514.66	1,760.33	1,675.93	84.40	20.857	
7,950.00	6,980.00	7,013.77	6,895.90	70.49	30.03	55.28	1,233.85	4,514.64	1,754.73	1,670.01	84.72	20.712	
8,000.00	7,022.68	7,054.49	6,936.62	71.01	30.15	46.63	1,233.58	4,514.62	1,736.95	1,651.34	85.61	20.290	
8,050.00	7,066.06	7,098.64	6,980.78	71.51	30.26	36.84	1,233.31	4,514.62	1,717.45	1,631.08	86.38	19.883	
8,100.00	7,109.82	7,143.23	7,025.37	71.97	30.38	26.16	1,233.12	4,514.62	1,696.26	1,609.24	87.02	19.493	
8,150.00	7,153.63	7,183.73	7,065.86	72.38	30.49	15.03	1,232.96	4,514.66	1,673.51	1,585.99	87.51	19.123	
8,200.00	7,197.14	7,224.07	7,106.20	72.74	30.60	3.97	1,232.77	4,514.77	1,649.36	1,561.50	87.86	18.772	
8,250.00	7,240.04	7,267.99	7,150.12	73.05	30.72	-6.66	1,232.54	4,514.94	1,623.95	1,535.87	88.08	18.438	
8,300.00	7,281.99	7,312.78	7,194.91	73.31	30.84	-16.70	1,232.35	4,515.06	1,597.35	1,509.21	88.14	18.123	
8,350.00	7,322.67	7,355.47	7,237.60	73.52	30.96	-26.11	1,232.21	4,515.12	1,569.80	1,481.75	88.04	17.830	
8,400.00	7,361.77	7,396.03	7,278.16	73.68	31.07	-34.90	1,232.09	4,515.14	1,541.61	1,453.83	87.78	17.561	
8,450.00	7,399.01	7,434.62	7,316.75	73.78	31.18	-43.12	1,231.98	4,515.12	1,513.11	1,425.76	87.36	17.321	
8,500.00	7,434.08	7,470.94	7,353.07	73.85	31.28	-50.79	1,231.89	4,515.07	1,484.66	1,397.90	86.76	17.112	
8,550.00	7,466.74	7,504.73	7,386.86	73.87	31.38	-57.87	1,231.81	4,515.01	1,456.66	1,370.67	85.99	16.940	
8,600.00	7,496.72	7,535.74	7,417.87	73.85	31.46	-64.35	1,231.74	4,514.92	1,429.54	1,344.48	85.05	16.807	
8,650.00	7,523.80	7,561.85	7,443.97	73.79	31.54	-70.09	1,231.65	4,514.86	1,403.76	1,319.81	83.96	16.720	
8,700.00	7,547.77	7,585.72	7,467.85	73.70	31.61	-75.15	1,231.56	4,514.80	1,379.77	1,297.07	82.70	16.684	SF
8,750.00	7,568.45	7,606.39	7,488.52	73.58	31.67	-79.49	1,231.48	4,514.74	1,358.03	1,276.72	81.31	16.701	
8,800.00	7,585.69	7,622.60	7,504.73	73.43	31.71	-83.03	1,231.41	4,514.71	1,338.97	1,259.16	79.81	16.778	
8,850.00	7,599.35	7,635.25	7,517.38	73.26	31.75	-85.83	1,231.35	4,514.69	1,322.99	1,244.77	78.22	16.915	
8,900.00	7,609.33	7,644.54	7,526.67	73.07	31.77	-87.90	1,231.32	4,514.69	1,310.44	1,233.87	76.57	17.113	
8,950.00	7,615.55	7,650.39	7,532.52	72.87	31.79	-89.26	1,231.29	4,514.69	1,301.60	1,226.67	74.93	17.372	
9,000.00	7,617.97	7,652.76	7,534.89	72.65	31.80	-89.92	1,231.29	4,514.69	1,296.65	1,223.34	73.31	17.686	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,006.60	7,618.00	7,652.82	7,534.94	72.62	31.80	-89.95	1,231.29	4,514.69	1,296.29	1,223.19	73.11	17.732 ES	
9,069.47	7,618.00	7,653.03	7,535.15	72.35	31.80	-89.96	1,231.28	4,514.69	1,294.77	1,223.54	71.23	18.177 CC	
9,100.00	7,618.00	7,653.13	7,535.26	72.22	31.80	-89.97	1,231.28	4,514.69	1,295.13	1,224.75	70.38	18.401	
9,200.00	7,618.00	7,653.46	7,535.59	71.80	31.80	-89.98	1,231.28	4,514.69	1,301.33	1,233.29	68.04	19.125	
9,300.00	7,618.00	7,653.79	7,535.92	71.41	31.80	-90.00	1,231.28	4,514.69	1,315.13	1,248.65	66.48	19.783	
9,400.00	7,618.00	7,654.12	7,536.25	71.04	31.80	-90.01	1,231.28	4,514.69	1,336.29	1,270.49	65.80	20.307	
9,500.00	7,618.00	7,654.45	7,536.58	70.68	31.80	-90.03	1,231.28	4,514.69	1,364.47	1,298.44	66.03	20.665	
9,600.00	7,618.00	7,654.78	7,536.91	70.35	31.80	-90.04	1,231.28	4,514.69	1,399.24	1,332.20	67.04	20.870	
9,700.00	7,618.00	7,655.11	7,537.24	70.04	31.80	-90.05	1,231.28	4,514.69	1,440.14	1,371.46	68.68	20.970	
9,800.00	7,618.00	7,655.44	7,537.56	69.75	31.80	-90.07	1,231.28	4,514.69	1,486.64	1,415.91	70.73	21.020	
9,900.00	7,618.00	7,655.76	7,537.89	69.47	31.81	-90.08	1,231.27	4,514.69	1,538.25	1,465.24	73.01	21.069	
10,000.00	7,618.00	7,656.08	7,538.21	69.22	31.81	-90.10	1,231.27	4,514.69	1,594.46	1,519.07	75.39	21.150	
10,100.00	7,618.00	7,656.41	7,538.53	68.99	31.81	-90.11	1,231.27	4,514.69	1,654.81	1,577.05	77.76	21.281	
10,200.00	7,618.00	7,656.73	7,538.85	68.78	31.81	-90.13	1,231.27	4,514.69	1,718.87	1,638.81	80.06	21.469	
10,300.00	7,618.00	7,657.05	7,539.17	68.59	31.81	-90.14	1,231.27	4,514.69	1,786.23	1,703.98	82.25	21.716	
10,400.00	7,618.00	7,657.37	7,539.49	68.42	31.81	-90.15	1,231.27	4,514.69	1,856.53	1,772.22	84.31	22.020	
10,500.00	7,618.00	7,657.68	7,539.81	68.28	31.81	-90.17	1,231.27	4,514.69	1,929.46	1,843.23	86.23	22.377	
10,600.00	7,618.00	7,658.00	7,540.13	68.16	31.81	-90.18	1,231.27	4,514.69	2,004.72	1,916.72	88.00	22.781	
10,700.00	7,618.00	7,658.32	7,540.44	68.06	31.81	-90.20	1,231.27	4,514.69	2,082.07	1,992.43	89.64	23.228	
10,800.00	7,618.00	7,658.63	7,540.76	67.99	31.81	-90.21	1,231.26	4,514.69	2,161.28	2,070.14	91.14	23.713	
10,900.00	7,618.00	7,658.94	7,541.07	67.95	31.81	-90.22	1,231.26	4,514.69	2,242.15	2,149.62	92.53	24.232	
11,000.00	7,618.00	7,659.26	7,541.38	67.95	31.81	-90.24	1,231.26	4,514.70	2,324.51	2,230.71	93.80	24.782	
11,100.00	7,618.00	7,659.57	7,541.70	67.97	31.82	-90.25	1,231.26	4,514.70	2,408.20	2,313.23	94.97	25.358	
11,200.00	7,618.00	7,659.88	7,542.01	68.04	31.82	-90.27	1,231.26	4,514.70	2,493.10	2,397.05	96.04	25.958	
11,300.00	7,618.00	7,660.19	7,542.31	68.15	31.82	-90.28	1,231.26	4,514.70	2,579.08	2,482.04	97.03	26.579	
11,400.00	7,618.00	7,660.49	7,542.62	68.30	31.82	-90.29	1,231.26	4,514.70	2,666.03	2,568.09	97.95	27.219	
11,500.00	7,618.00	7,660.80	7,542.93	68.50	31.82	-90.31	1,231.26	4,514.70	2,753.88	2,655.09	98.79	27.876	
11,600.00	7,618.00	7,661.11	7,543.23	68.75	31.82	-90.32	1,231.26	4,514.70	2,842.52	2,742.95	99.57	28.549	
11,700.00	7,618.00	7,661.41	7,543.54	69.06	31.82	-90.33	1,231.25	4,514.70	2,931.90	2,831.61	100.29	29.234	
11,800.00	7,618.00	7,661.72	7,543.84	69.44	31.82	-90.35	1,231.25	4,514.70	3,021.94	2,920.98	100.96	29.933	
11,900.00	7,618.00	7,662.02	7,544.15	69.88	31.82	-90.36	1,231.25	4,514.70	3,112.59	3,011.01	101.58	30.642	
12,000.00	7,618.00	7,662.32	7,544.45	70.39	31.82	-90.37	1,231.25	4,514.70	3,203.80	3,101.64	102.16	31.361	
12,100.00	7,618.00	7,662.62	7,544.75	70.97	31.82	-90.39	1,231.25	4,514.70	3,295.52	3,192.82	102.70	32.089	
12,200.00	7,618.00	7,662.92	7,545.05	71.63	31.83	-90.40	1,231.25	4,514.70	3,387.70	3,284.50	103.20	32.826	
12,300.00	7,618.00	7,663.22	7,545.34	72.35	31.83	-90.41	1,231.25	4,514.70	3,480.32	3,376.65	103.67	33.570	
12,400.00	7,618.00	7,663.51	7,545.64	73.15	31.83	-90.43	1,231.25	4,514.70	3,573.34	3,469.22	104.11	34.321	
12,500.00	7,618.00	7,663.81	7,545.94	74.01	31.83	-90.44	1,231.25	4,514.70	3,666.72	3,562.19	104.53	35.079	
12,600.00	7,618.00	7,664.11	7,546.23	74.93	31.83	-90.45	1,231.25	4,514.70	3,760.44	3,655.52	104.92	35.842	
12,700.00	7,618.00	7,664.40	7,546.53	75.91	31.83	-90.47	1,231.24	4,514.70	3,854.48	3,749.20	105.28	36.610	
12,800.00	7,618.00	7,664.69	7,546.82	76.95	31.83	-90.48	1,231.24	4,514.70	3,948.81	3,843.18	105.63	37.383	
12,900.00	7,618.00	7,664.99	7,547.11	78.04	31.83	-90.49	1,231.24	4,514.70	4,043.42	3,937.46	105.96	38.161	
13,000.00	7,618.00	7,665.28	7,547.40	79.16	31.83	-90.50	1,231.24	4,514.70	4,138.27	4,032.01	106.26	38.943	
13,100.00	7,618.00	7,665.57	7,547.69	80.33	31.83	-90.52	1,231.24	4,514.70	4,233.37	4,126.81	106.56	39.729	
13,200.00	7,618.00	7,665.86	7,547.98	81.54	31.83	-90.53	1,231.24	4,514.70	4,328.68	4,221.85	106.83	40.518	
13,300.00	7,618.00	7,666.14	7,548.27	82.78	31.83	-90.54	1,231.24	4,514.70	4,424.21	4,317.11	107.10	41.310	
13,400.00	7,618.00	7,666.43	7,548.56	84.05	31.83	-90.56	1,231.24	4,514.71	4,519.92	4,412.58	107.35	42.106	
13,500.00	7,618.00	7,666.72	7,548.85	85.35	31.84	-90.57	1,231.24	4,514.71	4,615.82	4,508.24	107.59	42.904	
13,600.00	7,618.00	7,667.00	7,549.13	86.67	31.84	-90.58	1,231.24	4,514.71	4,711.89	4,604.08	107.81	43.705	
13,700.00	7,618.00	7,667.29	7,549.42	88.02	31.84	-90.59	1,231.23	4,514.71	4,808.12	4,700.09	108.03	44.508	
13,800.00	7,618.00	7,667.57	7,549.70	89.38	31.84	-90.61	1,231.23	4,514.71	4,904.50	4,796.26	108.24	45.313	
13,900.00	7,618.00	7,667.85	7,549.98	90.77	31.84	-90.62	1,231.23	4,514.71	5,001.02	4,892.58	108.43	46.120	
14,000.00	7,618.00	7,668.14	7,550.26	92.17	31.84	-90.63	1,231.23	4,514.71	5,097.67	4,989.05	108.62	46.930	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,618.00	7,668.42	7,550.54	93.59	31.84	-90.64	1,231.23	4,514.71	5,194.46	5,085.65	108.81	47.741	
14,200.00	7,618.00	7,668.70	7,550.82	95.02	31.84	-90.66	1,231.23	4,514.71	5,291.36	5,182.38	108.98	48.554	
14,300.00	7,618.00	7,668.97	7,551.10	96.47	31.84	-90.67	1,231.23	4,514.71	5,388.37	5,279.23	109.15	49.368	
14,400.00	7,618.00	7,669.25	7,551.38	97.93	31.84	-90.68	1,231.23	4,514.71	5,485.50	5,376.19	109.31	50.184	
14,500.00	7,618.00	7,669.53	7,551.66	99.41	31.84	-90.69	1,231.23	4,514.71	5,582.72	5,473.26	109.46	51.001	
14,600.00	7,618.00	7,669.80	7,551.93	100.89	31.84	-90.70	1,231.23	4,514.71	5,680.04	5,570.43	109.61	51.819	
14,700.00	7,618.00	7,670.08	7,552.21	102.38	31.85	-90.72	1,231.22	4,514.71	5,777.45	5,667.69	109.76	52.638	
14,800.00	7,618.00	7,670.35	7,552.48	103.89	31.85	-90.73	1,231.22	4,514.71	5,874.95	5,765.05	109.90	53.459	
14,900.00	7,618.00	7,670.63	7,552.75	105.40	31.85	-90.74	1,231.22	4,514.71	5,972.53	5,862.50	110.03	54.280	
15,000.00	7,618.00	7,670.90	7,553.03	106.92	31.85	-90.75	1,231.22	4,514.71	6,070.19	5,960.03	110.16	55.102	
15,100.00	7,618.00	7,671.17	7,553.30	108.45	31.85	-90.77	1,231.22	4,514.71	6,167.93	6,057.64	110.29	55.925	
15,200.00	7,618.00	7,671.44	7,553.57	109.99	31.85	-90.78	1,231.22	4,514.71	6,265.73	6,155.32	110.41	56.749	
15,300.00	7,618.00	7,671.71	7,553.84	111.54	31.85	-90.79	1,231.22	4,514.72	6,363.61	6,253.08	110.53	57.574	
15,400.00	7,618.00	7,671.98	7,554.11	113.09	31.85	-90.80	1,231.22	4,514.72	6,461.55	6,350.90	110.64	58.399	
15,500.00	7,618.00	7,672.25	7,554.37	114.65	31.85	-90.81	1,231.22	4,514.72	6,559.55	6,448.79	110.76	59.225	
15,600.00	7,618.00	7,672.51	7,554.64	116.21	31.85	-90.82	1,231.22	4,514.72	6,657.61	6,546.75	110.87	60.051	
15,700.00	7,618.00	7,672.78	7,554.91	117.78	31.85	-90.84	1,231.22	4,514.72	6,755.73	6,644.76	110.97	60.878	
15,800.00	7,618.00	7,673.04	7,555.17	119.36	31.85	-90.85	1,231.22	4,514.72	6,853.90	6,742.83	111.07	61.705	
15,900.00	7,618.00	7,673.31	7,555.43	120.94	31.85	-90.86	1,231.21	4,514.72	6,952.13	6,840.95	111.18	62.533	
16,000.00	7,618.00	7,673.57	7,555.70	122.53	31.85	-90.87	1,231.21	4,514.72	7,050.40	6,939.13	111.27	63.361	
16,100.00	7,618.00	7,673.83	7,555.96	124.12	31.86	-90.88	1,231.21	4,514.72	7,148.72	7,037.35	111.37	64.189	
16,200.00	7,618.00	7,674.10	7,556.22	125.72	31.86	-90.89	1,231.21	4,514.72	7,247.09	7,135.63	111.46	65.018	
16,300.00	7,618.00	7,674.36	7,556.48	127.32	31.86	-90.91	1,231.21	4,514.72	7,345.50	7,233.95	111.55	65.847	
16,400.00	7,618.00	7,674.62	7,556.74	128.93	31.86	-90.92	1,231.21	4,514.72	7,443.96	7,332.31	111.64	66.676	
16,500.00	7,618.00	7,674.88	7,557.00	130.54	31.86	-90.93	1,231.21	4,514.72	7,542.45	7,430.72	111.73	67.505	
16,600.00	7,618.00	7,675.13	7,557.26	132.15	31.86	-90.94	1,231.21	4,514.72	7,640.99	7,529.17	111.82	68.335	
16,700.00	7,618.00	7,675.39	7,557.52	133.77	31.86	-90.95	1,231.21	4,514.72	7,739.56	7,627.66	111.90	69.164	
16,800.00	7,618.00	7,675.65	7,557.77	135.39	31.86	-90.96	1,231.21	4,514.72	7,838.17	7,726.18	111.98	69.994	
16,900.00	7,618.00	7,675.90	7,558.03	137.01	31.86	-90.97	1,231.21	4,514.72	7,936.81	7,824.75	112.06	70.823	
17,000.00	7,618.00	7,676.16	7,558.29	138.64	31.86	-90.99	1,231.21	4,514.73	8,035.49	7,923.34	112.14	71.653	
17,100.00	7,618.00	7,676.41	7,558.54	140.27	31.86	-91.00	1,231.20	4,514.73	8,134.20	8,021.97	112.22	72.483	
17,200.00	7,618.00	7,676.67	7,558.79	141.91	31.86	-91.01	1,231.20	4,514.73	8,232.94	8,120.64	112.30	73.312	
17,300.00	7,618.00	7,676.92	7,559.05	143.55	31.86	-91.02	1,231.20	4,514.73	8,331.71	8,219.33	112.37	74.142	
17,400.00	7,618.00	7,677.17	7,559.30	145.19	31.86	-91.03	1,231.20	4,514.73	8,430.51	8,318.06	112.45	74.972	
17,500.00	7,618.00	7,677.42	7,559.55	146.83	31.87	-91.04	1,231.20	4,514.73	8,529.33	8,416.81	112.52	75.801	
17,600.00	7,618.00	7,677.67	7,559.80	148.48	31.87	-91.05	1,231.20	4,514.73	8,628.19	8,515.59	112.59	76.630	
17,700.00	7,618.00	7,677.92	7,560.05	150.13	31.87	-91.06	1,231.20	4,514.73	8,727.07	8,614.40	112.67	77.460	
17,800.00	7,618.00	7,678.17	7,560.30	151.78	31.87	-91.07	1,231.20	4,514.73	8,825.97	8,713.24	112.74	78.289	
17,900.00	7,618.00	7,678.42	7,560.54	153.43	31.87	-91.09	1,231.20	4,514.73	8,924.90	8,812.10	112.81	79.118	
18,000.00	7,618.00	7,678.66	7,560.79	155.09	31.87	-91.10	1,231.20	4,514.73	9,023.85	8,910.98	112.87	79.946	
18,100.00	7,618.00	7,678.91	7,561.04	156.75	31.87	-91.11	1,231.20	4,514.73	9,122.83	9,009.89	112.94	80.775	
18,200.00	7,618.00	7,679.16	7,561.28	158.41	31.87	-91.12	1,231.20	4,514.73	9,221.83	9,108.82	113.01	81.603	
18,300.00	7,618.00	7,679.40	7,561.53	160.07	31.87	-91.13	1,231.19	4,514.73	9,320.85	9,207.77	113.07	82.431	
18,400.00	7,618.00	7,679.64	7,561.77	161.74	31.87	-91.14	1,231.19	4,514.73	9,419.89	9,306.75	113.14	83.259	
18,500.00	7,618.00	7,679.89	7,562.01	163.41	31.87	-91.15	1,231.19	4,514.73	9,518.95	9,405.74	113.20	84.086	
18,600.00	7,618.00	7,680.13	7,562.26	165.08	31.87	-91.16	1,231.19	4,514.74	9,618.03	9,504.76	113.27	84.913	
18,700.00	7,618.00	7,680.37	7,562.50	166.75	31.87	-91.17	1,231.19	4,514.74	9,717.13	9,603.80	113.33	85.740	
18,711.30	7,618.00	7,680.40	7,562.53	166.94	31.87	-91.17	1,231.19	4,514.74	9,728.33	9,614.99	113.34	85.834	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	82.09	750.66	5,403.05	5,455.56				
100.00	100.00	34.46	34.46	0.13	0.05	82.09	750.64	5,403.00	5,454.92	5,454.73	0.19	N/A	
200.00	200.00	155.99	155.99	0.49	0.39	82.09	750.48	5,402.26	5,454.27	5,453.38	0.89	6,145.639	
300.00	300.00	247.25	247.24	0.85	0.72	82.09	750.46	5,401.68	5,453.64	5,452.07	1.57	3,467.911	
400.00	400.00	353.39	353.39	1.21	1.10	82.09	750.57	5,401.05	5,453.07	5,450.76	2.31	2,359.701	
492.91	492.91	410.92	410.91	1.54	1.30	82.09	750.08	5,400.94	5,452.77	5,449.93	2.84	1,917.378	
500.00	500.00	415.35	415.34	1.57	1.32	82.09	749.99	5,400.95	5,452.77	5,449.89	2.88	1,890.228	
600.00	600.00	480.16	480.11	1.93	1.54	82.12	748.00	5,401.48	5,453.15	5,449.69	3.47	1,572.516	
700.00	700.00	534.00	533.87	2.29	1.73	82.15	745.21	5,402.38	5,454.18	5,450.17	4.01	1,359.412	
800.00	800.00	590.55	590.26	2.64	1.93	82.19	741.19	5,403.94	5,456.02	5,451.45	4.57	1,193.299	
900.00	900.00	648.02	647.44	3.00	2.14	82.25	735.92	5,406.30	5,458.82	5,453.68	5.14	1,062.175	
1,000.00	999.98	716.00	714.86	3.36	2.39	25.14	727.89	5,409.60	5,460.55	5,454.80	5.75	950.216	
1,100.00	1,099.84	764.05	762.34	3.71	2.59	25.23	721.10	5,412.43	5,459.93	5,453.64	6.29	868.418	
1,200.00	1,199.45	809.00	806.60	4.07	2.77	25.34	714.01	5,415.74	5,457.28	5,450.46	6.82	800.393	
1,300.00	1,298.70	854.22	851.00	4.44	2.96	25.50	706.33	5,419.56	5,452.50	5,445.13	7.36	740.458	
1,400.00	1,397.47	902.00	897.80	4.82	3.17	25.68	697.78	5,424.02	5,445.50	5,437.57	7.92	687.216	
1,500.00	1,495.62	963.69	958.06	5.22	3.45	25.95	686.20	5,430.29	5,436.21	5,427.65	8.56	634.790	
1,600.00	1,593.06	1,023.04	1,015.88	5.65	3.73	26.24	674.50	5,436.82	5,424.62	5,415.41	9.21	589.182	
1,700.00	1,689.64	1,088.68	1,079.50	6.11	4.05	26.61	660.32	5,444.55	5,410.67	5,400.77	9.90	546.492	
1,800.00	1,785.27	1,214.01	1,200.78	6.61	4.69	27.25	632.40	5,459.38	5,393.89	5,382.97	10.92	494.012	
1,900.00	1,879.82	1,286.72	1,271.45	7.15	5.07	27.72	617.42	5,467.57	5,373.92	5,362.23	11.68	459.921	
2,000.00	1,973.17	1,339.00	1,322.22	7.73	5.33	28.15	606.62	5,473.85	5,351.79	5,339.43	12.36	432.938	
2,100.00	2,065.21	1,421.76	1,402.36	8.37	5.77	28.76	588.74	5,484.18	5,327.32	5,314.10	13.22	402.864	
2,200.00	2,155.84	1,493.27	1,471.34	9.07	6.17	29.38	572.22	5,493.29	5,300.35	5,286.29	14.06	376.962	
2,300.00	2,244.94	1,584.44	1,558.99	9.82	6.68	30.17	550.10	5,505.13	5,270.98	5,255.94	15.04	350.531	
2,400.00	2,332.39	1,711.72	1,681.69	10.64	7.40	31.22	520.18	5,520.93	5,238.68	5,222.44	16.24	322.637	
2,500.00	2,418.11	1,769.17	1,737.26	11.53	7.72	31.93	507.38	5,527.91	5,203.75	5,186.67	17.08	304.720	
2,558.91	2,467.74	1,806.00	1,772.88	12.08	7.92	32.40	499.26	5,532.53	5,182.26	5,164.65	17.60	294.385	
2,600.00	2,502.13	1,839.25	1,805.05	12.47	8.10	32.60	491.95	5,536.73	5,167.05	5,149.03	18.02	286.800	
2,700.00	2,585.83	1,952.54	1,914.73	13.45	8.73	33.28	467.27	5,550.70	5,130.12	5,110.92	19.20	267.130	
2,800.00	2,669.53	2,037.91	1,997.60	14.44	9.19	33.80	449.39	5,560.72	5,093.12	5,072.86	20.26	251.353	
2,900.00	2,753.22	2,113.11	2,070.43	15.46	9.61	34.26	433.01	5,569.74	5,056.75	5,035.46	21.29	237.491	
3,000.00	2,836.92	2,227.97	2,181.39	16.48	10.26	35.00	406.43	5,583.00	5,020.51	4,997.94	22.57	222.418	
3,100.00	2,920.62	2,335.07	2,284.81	17.52	10.86	35.70	381.16	5,594.70	4,984.26	4,960.43	23.83	209.138	
3,200.00	3,004.32	2,470.08	2,415.98	18.56	11.59	36.57	352.42	5,608.50	4,947.91	4,922.67	25.24	196.069	
3,300.00	3,088.01	2,542.92	2,486.92	19.61	11.98	37.03	337.45	5,615.61	4,911.60	4,885.28	26.32	186.623	
3,400.00	3,171.71	2,584.83	2,527.65	20.67	12.21	37.31	328.53	5,619.82	4,876.05	4,848.79	27.26	178.866	
3,500.00	3,255.41	2,621.04	2,562.78	21.73	12.40	37.55	320.71	5,623.78	4,841.71	4,813.52	28.19	171.765	
3,600.00	3,339.10	2,761.19	2,698.65	22.80	13.18	38.49	290.08	5,639.30	4,808.19	4,778.49	29.70	161.902	
3,700.00	3,422.80	2,845.95	2,780.89	23.87	13.64	39.07	271.37	5,647.81	4,774.20	4,743.27	30.92	154.382	
3,800.00	3,506.50	2,907.72	2,840.70	24.94	13.99	39.50	257.27	5,654.07	4,740.87	4,708.82	32.05	147.929	
3,900.00	3,590.20	2,989.51	2,919.80	26.02	14.45	40.08	238.24	5,662.46	4,708.26	4,674.96	33.30	141.390	
4,000.00	3,673.89	3,050.26	2,978.64	27.10	14.79	40.51	224.46	5,668.71	4,676.21	4,641.77	34.45	135.754	
4,100.00	3,757.59	3,094.33	3,021.25	28.18	15.04	40.83	214.31	5,673.54	4,645.30	4,609.79	35.51	130.817	
4,200.00	3,841.29	3,154.53	3,079.38	29.26	15.38	41.26	200.27	5,680.53	4,615.51	4,578.83	36.68	125.836	
4,300.00	3,924.99	3,258.18	3,179.66	30.35	15.96	42.01	177.09	5,692.72	4,586.41	4,548.31	38.11	120.361	
4,400.00	4,008.68	3,370.91	3,289.08	31.44	16.58	42.82	153.02	5,705.12	4,557.09	4,517.50	39.59	115.109	
4,500.00	4,092.38	3,446.47	3,362.24	32.52	17.01	43.38	135.87	5,713.08	4,528.24	4,487.36	40.89	110.755	
4,600.00	4,176.08	3,508.80	3,422.54	33.62	17.36	43.84	121.56	5,719.74	4,500.22	4,458.10	42.12	106.843	
4,700.00	4,259.77	3,557.98	3,470.07	34.71	17.64	44.22	110.21	5,725.28	4,473.31	4,430.02	43.29	103.340	
4,800.00	4,343.47	3,661.36	3,570.11	35.80	18.22	44.99	87.17	5,737.44	4,447.39	4,402.61	44.78	99.316	
4,900.00	4,427.17	3,771.90	3,677.78	36.89	18.81	45.80	65.57	5,750.11	4,421.31	4,375.02	46.29	95.508	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,510.87	3,849.27	3,753.25	37.99	19.21	46.36	51.00	5,758.91	4,395.67	4,348.04	47.62	92.299	
5,100.00	4,594.56	3,918.56	3,820.75	39.08	19.58	46.87	37.51	5,766.79	4,370.79	4,321.86	48.93	89.332	
5,200.00	4,678.26	3,980.04	3,880.61	40.18	19.91	47.33	25.47	5,773.97	4,346.83	4,296.63	50.20	86.595	
5,300.00	4,761.96	4,032.33	3,931.48	41.28	20.19	47.72	15.20	5,780.40	4,324.02	4,272.60	51.42	84.090	
5,400.00	4,845.66	4,118.31	4,015.07	42.37	20.65	48.37	-1.74	5,791.33	4,302.23	4,249.38	52.85	81.401	
5,500.00	4,929.35	4,196.18	4,090.79	43.47	21.07	48.96	-17.08	5,801.02	4,280.90	4,226.66	54.24	78.919	
5,600.00	5,013.05	4,400.04	4,289.92	44.57	22.12	50.48	-53.06	5,825.55	4,259.74	4,203.41	56.33	75.622	
5,700.00	5,096.75	4,478.60	4,367.03	45.67	22.51	51.06	-65.59	5,833.92	4,237.39	4,179.66	57.72	73.408	
5,800.00	5,180.45	4,561.99	4,448.50	46.77	22.93	51.71	-81.14	5,842.43	4,216.06	4,156.88	59.17	71.252	
5,900.00	5,264.14	4,834.88	4,716.32	47.87	24.26	53.85	-128.70	5,863.82	4,193.02	4,131.39	61.63	68.032	
6,000.00	5,347.84	4,897.00	4,777.69	48.97	24.53	54.32	-137.27	5,868.26	4,169.39	4,106.42	62.97	66.211	
6,100.00	5,431.54	5,452.01	5,330.10	50.07	26.50	58.41	-181.89	5,883.79	4,138.21	4,072.29	65.92	62.776	
6,200.00	5,515.23	5,582.94	5,460.98	51.17	26.83	59.34	-183.92	5,882.70	4,105.94	4,038.61	67.33	60.981	
6,300.00	5,598.93	5,673.90	5,551.94	52.27	27.04	59.98	-183.50	5,882.20	4,073.83	4,005.17	68.66	59.332	
6,400.00	5,682.63	5,777.84	5,655.87	53.38	27.27	60.71	-182.75	5,881.16	4,041.75	3,971.73	70.02	57.725	
6,500.00	5,766.33	5,858.86	5,736.89	54.48	27.46	61.29	-182.12	5,880.23	4,010.06	3,938.70	71.36	56.191	
6,600.00	5,850.02	5,936.63	5,814.65	55.58	27.64	61.85	-181.84	5,879.30	3,979.00	3,906.28	72.73	54.712	
6,700.00	5,933.72	6,022.44	5,900.46	56.68	27.85	62.49	-181.62	5,878.28	3,948.51	3,874.39	74.11	53.276	
6,800.00	6,017.42	6,131.96	6,009.96	57.79	28.11	63.31	-181.08	5,876.57	3,918.18	3,842.64	75.54	51.870	
6,900.00	6,101.12	6,216.21	6,094.20	58.89	28.30	63.94	-180.36	5,875.13	3,888.19	3,811.24	76.95	50.532	
7,000.00	6,184.81	6,305.86	6,183.82	59.99	28.52	64.62	-179.42	5,873.58	3,858.67	3,780.30	78.37	49.238	
7,100.00	6,268.51	6,379.81	6,257.76	61.10	28.69	65.19	-178.52	5,872.41	3,829.77	3,749.99	79.78	48.001	
7,200.00	6,352.21	6,430.08	6,308.02	62.20	28.82	65.58	-177.89	5,871.88	3,801.86	3,720.68	81.19	46.827	
7,300.00	6,435.90	6,487.00	6,364.94	63.31	28.96	66.02	-177.49	5,871.87	3,775.42	3,692.81	82.61	45.703	
7,400.00	6,519.60	6,547.62	6,425.56	64.41	29.12	66.49	-177.35	5,872.15	3,750.15	3,666.10	84.05	44.619	
7,500.00	6,603.30	6,635.29	6,513.23	65.51	29.37	67.19	-177.50	5,872.37	3,725.58	3,640.03	85.55	43.550	
7,600.00	6,687.00	6,738.30	6,616.24	66.62	29.65	68.03	-177.80	5,872.20	3,701.41	3,614.33	87.08	42.504	
7,700.00	6,770.69	6,820.62	6,698.56	67.72	29.88	68.70	-177.93	5,871.75	3,677.57	3,588.98	88.59	41.512	
7,800.00	6,854.39	6,891.41	6,769.35	68.83	30.07	69.28	-178.01	5,871.61	3,654.63	3,564.54	90.09	40.567	
7,900.00	6,938.09	6,961.51	6,839.45	69.93	30.27	69.86	-178.25	5,871.69	3,632.70	3,541.11	91.59	39.661	
7,933.18	6,965.86	6,989.74	6,867.68	70.30	30.35	70.10	-178.38	5,871.75	3,625.63	3,533.52	92.10	39.364	
7,950.00	6,980.00	7,004.11	6,882.05	70.49	30.39	67.61	-178.45	5,871.78	3,621.91	3,529.55	92.36	39.215	
8,000.00	7,022.68	7,047.49	6,925.43	71.01	30.52	59.38	-178.66	5,871.87	3,609.08	3,516.00	93.08	38.773	
8,050.00	7,066.06	7,096.51	6,974.45	71.51	30.66	50.03	-178.90	5,871.91	3,593.62	3,499.87	93.75	38.334	
8,100.00	7,109.82	7,146.06	7,023.99	71.97	30.81	39.83	-179.14	5,871.85	3,575.54	3,481.20	94.34	37.902	
8,150.00	7,153.63	7,184.66	7,062.60	72.38	30.92	29.17	-179.35	5,871.80	3,555.01	3,460.18	94.83	37.488	
8,200.00	7,197.14	7,223.71	7,101.65	72.74	31.03	18.62	-179.59	5,871.78	3,532.20	3,436.96	95.24	37.088	
8,250.00	7,240.04	7,269.21	7,147.14	73.05	31.17	8.51	-179.90	5,871.76	3,507.23	3,411.66	95.58	36.696	
8,300.00	7,281.99	7,316.83	7,194.76	73.31	31.31	-1.02	-180.21	5,871.68	3,480.19	3,384.36	95.83	36.317	
8,350.00	7,322.67	7,357.57	7,235.50	73.52	31.43	-9.97	-180.48	5,871.55	3,451.29	3,355.31	95.98	35.957	
8,400.00	7,361.77	7,394.94	7,272.87	73.68	31.54	-18.41	-180.77	5,871.43	3,420.83	3,324.78	96.05	35.616	
8,450.00	7,399.01	7,430.60	7,308.53	73.78	31.64	-26.46	-181.08	5,871.31	3,389.05	3,293.03	96.02	35.295	
8,500.00	7,434.08	7,464.29	7,342.22	73.85	31.74	-34.22	-181.40	5,871.19	3,356.23	3,260.32	95.91	34.994	
8,550.00	7,466.74	7,495.76	7,373.68	73.87	31.83	-41.71	-181.73	5,871.08	3,322.65	3,226.94	95.71	34.716	
8,600.00	7,496.72	7,524.76	7,402.68	73.85	31.92	-48.95	-182.07	5,870.98	3,288.63	3,193.20	95.43	34.462	
8,650.00	7,523.80	7,546.72	7,424.64	73.79	31.99	-55.81	-182.36	5,870.90	3,254.51	3,159.45	95.06	34.236	
8,700.00	7,547.77	7,567.34	7,445.26	73.70	32.05	-62.28	-182.67	5,870.84	3,220.61	3,125.99	94.62	34.037	
8,750.00	7,568.45	7,585.35	7,463.27	73.58	32.10	-68.27	-182.97	5,870.80	3,187.26	3,093.16	94.11	33.869	
8,800.00	7,585.69	7,600.59	7,478.50	73.43	32.15	-73.71	-183.24	5,870.76	3,154.81	3,061.28	93.53	33.731	
8,850.00	7,599.35	7,613.99	7,491.90	73.26	32.19	-78.56	-183.49	5,870.73	3,123.57	3,030.68	92.89	33.627	
8,900.00	7,609.33	7,625.70	7,503.61	73.07	32.23	-82.78	-183.70	5,870.71	3,093.85	3,001.66	92.20	33.557	
8,950.00	7,615.55	7,633.27	7,511.18	72.87	32.25	-86.33	-183.82	5,870.71	3,065.98	2,974.53	91.46	33.524	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	7,636.72	7,514.62	72.65	32.26	-89.21	-183.88	5,870.70	3,040.25	2,949.57	90.67	33.530	
9,006.60	7,618.00	7,636.86	7,514.77	72.62	32.26	-89.54	-183.88	5,870.70	3,037.02	2,946.46	90.57	33.533	
9,100.00	7,618.00	7,638.44	7,516.34	72.22	32.26	-89.58	-183.91	5,870.70	2,992.82	2,903.77	89.06	33.606	
9,200.00	7,618.00	7,640.08	7,517.99	71.80	32.27	-89.61	-183.93	5,870.70	2,948.05	2,860.63	87.42	33.723	
9,300.00	7,618.00	7,641.69	7,519.60	71.41	32.27	-89.65	-183.96	5,870.70	2,906.02	2,820.25	85.77	33.880	
9,400.00	7,618.00	7,643.27	7,521.17	71.04	32.28	-89.68	-183.98	5,870.70	2,866.87	2,782.73	84.14	34.074	
9,500.00	7,618.00	7,644.80	7,522.71	70.68	32.28	-89.71	-184.01	5,870.70	2,830.71	2,748.18	82.52	34.301	
9,600.00	7,618.00	7,646.31	7,524.21	70.35	32.29	-89.75	-184.03	5,870.69	2,797.66	2,716.69	80.96	34.555	
9,700.00	7,618.00	7,647.78	7,525.68	70.04	32.29	-89.78	-184.05	5,870.69	2,767.82	2,688.35	79.48	34.826	
9,800.00	7,618.00	7,649.22	7,527.12	69.75	32.30	-89.81	-184.07	5,870.69	2,741.31	2,663.22	78.09	35.103	
9,900.00	7,618.00	7,650.63	7,528.53	69.47	32.30	-89.84	-184.09	5,870.69	2,718.23	2,641.38	76.85	35.371	
10,000.00	7,618.00	7,652.01	7,529.91	69.22	32.31	-89.87	-184.11	5,870.69	2,698.65	2,622.87	75.78	35.614	
10,100.00	7,618.00	7,653.36	7,531.26	68.99	32.31	-89.90	-184.13	5,870.69	2,682.66	2,607.75	74.91	35.813	
10,200.00	7,618.00	7,654.68	7,532.58	68.78	32.31	-89.93	-184.15	5,870.69	2,670.32	2,596.04	74.27	35.953	
10,300.00	7,618.00	7,655.97	7,533.88	68.59	32.32	-89.95	-184.17	5,870.69	2,661.68	2,587.78	73.90	36.016	
10,400.00	7,618.00	7,657.24	7,535.15	68.42	32.32	-89.98	-184.19	5,870.69	2,656.78	2,582.96	73.81	35.993	
10,480.35	7,618.00	7,658.24	7,536.15	68.30	32.33	-90.00	-184.20	5,870.69	2,655.56	2,581.60	73.96	35.906	CC, ES
10,500.00	7,618.00	7,658.48	7,536.39	68.28	32.33	-90.01	-184.20	5,870.69	2,655.63	2,581.62	74.02	35.880	
10,600.00	7,618.00	7,659.70	7,537.61	68.16	32.33	-90.03	-184.22	5,870.69	2,658.26	2,583.75	74.51	35.679	
10,700.00	7,618.00	7,660.90	7,538.80	68.06	32.33	-90.06	-184.24	5,870.69	2,664.63	2,589.36	75.27	35.400	
10,800.00	7,618.00	7,662.07	7,539.97	67.99	32.34	-90.09	-184.25	5,870.69	2,674.73	2,598.44	76.29	35.060	
10,900.00	7,618.00	7,663.22	7,541.12	67.95	32.34	-90.11	-184.27	5,870.69	2,688.51	2,610.98	77.53	34.675	
11,000.00	7,618.00	7,664.34	7,542.25	67.95	32.34	-90.13	-184.28	5,870.69	2,705.92	2,626.95	78.97	34.266	
11,100.00	7,618.00	7,665.45	7,543.35	67.97	32.35	-90.16	-184.30	5,870.69	2,726.89	2,646.33	80.56	33.851	
11,200.00	7,618.00	7,666.53	7,544.44	68.04	32.35	-90.18	-184.31	5,870.69	2,751.33	2,669.07	82.26	33.445	
11,300.00	7,618.00	7,667.60	7,545.50	68.15	32.35	-90.20	-184.32	5,870.69	2,779.16	2,695.10	84.06	33.063	
11,400.00	7,618.00	7,668.64	7,546.55	68.30	32.36	-90.23	-184.34	5,870.69	2,810.27	2,724.37	85.91	32.713	
11,500.00	7,618.00	7,669.67	7,547.57	68.50	32.36	-90.25	-184.35	5,870.69	2,844.56	2,756.78	87.79	32.403	
11,600.00	7,618.00	7,670.68	7,548.58	68.75	32.36	-90.27	-184.36	5,870.69	2,881.92	2,792.24	89.67	32.138	
11,700.00	7,618.00	7,671.66	7,549.57	69.06	32.37	-90.29	-184.37	5,870.69	2,922.21	2,830.67	91.55	31.921	
11,800.00	7,618.00	7,672.64	7,550.54	69.44	32.37	-90.31	-184.38	5,870.69	2,965.34	2,871.95	93.39	31.752	
11,900.00	7,618.00	7,673.59	7,551.49	69.88	32.37	-90.33	-184.40	5,870.69	3,011.17	2,915.97	95.20	31.631	
12,000.00	7,618.00	7,674.53	7,552.43	70.39	32.38	-90.35	-184.41	5,870.69	3,059.58	2,962.62	96.95	31.557	
12,100.00	7,618.00	7,675.45	7,553.35	70.97	32.38	-90.37	-184.42	5,870.69	3,110.45	3,011.80	98.66	31.529	SF
12,200.00	7,618.00	7,676.36	7,554.26	71.63	32.38	-90.39	-184.43	5,870.70	3,163.67	3,063.37	100.29	31.544	
12,300.00	7,618.00	7,677.25	7,555.15	72.35	32.38	-90.41	-184.44	5,870.70	3,219.11	3,117.24	101.87	31.601	
12,400.00	7,618.00	7,678.12	7,556.02	73.15	32.39	-90.43	-184.45	5,870.70	3,276.67	3,173.29	103.37	31.697	
12,500.00	7,618.00	7,678.98	7,556.88	74.01	32.39	-90.45	-184.46	5,870.70	3,336.23	3,231.42	104.81	31.830	
12,600.00	7,618.00	7,679.83	7,557.73	74.93	32.39	-90.47	-184.47	5,870.70	3,397.69	3,291.51	106.18	31.998	
12,700.00	7,618.00	7,680.66	7,558.56	75.91	32.39	-90.49	-184.48	5,870.70	3,460.95	3,353.46	107.49	32.198	
12,800.00	7,618.00	7,681.48	7,559.38	76.95	32.40	-90.50	-184.49	5,870.70	3,525.91	3,417.19	108.73	32.429	
12,900.00	7,618.00	7,682.29	7,560.19	78.04	32.40	-90.52	-184.50	5,870.70	3,592.48	3,482.58	109.90	32.688	
13,000.00	7,618.00	7,683.08	7,560.98	79.16	32.40	-90.54	-184.50	5,870.70	3,660.57	3,549.56	111.02	32.973	
13,100.00	7,618.00	7,683.86	7,561.76	80.33	32.40	-90.56	-184.51	5,870.70	3,730.10	3,618.03	112.07	33.282	
13,200.00	7,618.00	7,684.63	7,562.53	81.54	32.41	-90.57	-184.52	5,870.70	3,800.99	3,687.92	113.07	33.615	
13,300.00	7,618.00	7,685.38	7,563.28	82.78	32.41	-90.59	-184.53	5,870.70	3,873.16	3,759.14	114.02	33.969	
13,400.00	7,618.00	7,686.13	7,564.03	84.05	32.41	-90.60	-184.54	5,870.70	3,946.55	3,831.64	114.92	34.343	
13,500.00	7,618.00	7,686.86	7,564.76	85.35	32.41	-90.62	-184.54	5,870.70	4,021.09	3,905.32	115.76	34.736	
13,600.00	7,618.00	7,687.58	7,565.48	86.67	32.42	-90.64	-184.55	5,870.70	4,096.71	3,980.14	116.56	35.146	
13,700.00	7,618.00	7,688.29	7,566.19	88.02	32.42	-90.65	-184.56	5,870.71	4,173.35	4,056.03	117.32	35.572	
13,800.00	7,618.00	7,688.99	7,566.89	89.38	32.42	-90.67	-184.57	5,870.71	4,250.97	4,132.93	118.04	36.014	
13,900.00	7,618.00	7,689.68	7,567.58	90.77	32.42	-90.68	-184.57	5,870.71	4,329.50	4,210.78	118.72	36.469	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,618.00	7,690.36	7,568.26	92.17	32.42	-90.70	-184.58	5,870.71	4,408.90	4,289.54	119.36	36.938	
14,100.00	7,618.00	7,691.03	7,568.93	93.59	32.43	-90.71	-184.59	5,870.71	4,489.13	4,369.16	119.97	37.420	
14,200.00	7,618.00	7,691.69	7,569.59	95.02	32.43	-90.72	-184.59	5,870.71	4,570.13	4,449.59	120.54	37.913	
14,300.00	7,618.00	7,692.34	7,570.24	96.47	32.43	-90.74	-184.60	5,870.71	4,651.88	4,530.79	121.09	38.417	
14,400.00	7,618.00	7,692.98	7,570.88	97.93	32.43	-90.75	-184.61	5,870.71	4,734.32	4,612.72	121.61	38.932	
14,500.00	7,618.00	7,704.00	7,581.90	99.41	32.47	-90.99	-184.71	5,870.73	4,817.45	4,695.36	122.09	39.457	
14,600.00	7,618.00	7,704.00	7,581.90	100.89	32.47	-90.99	-184.71	5,870.73	4,901.19	4,778.63	122.56	39.990	
14,700.00	7,618.00	7,704.00	7,581.90	102.38	32.47	-90.99	-184.71	5,870.73	4,985.53	4,862.53	123.00	40.532	
14,800.00	7,618.00	7,704.00	7,581.90	103.89	32.47	-90.99	-184.71	5,870.73	5,070.44	4,947.01	123.42	41.081	
14,900.00	7,618.00	7,704.00	7,581.90	105.40	32.47	-90.99	-184.71	5,870.73	5,155.89	5,032.06	123.82	41.639	
15,000.00	7,618.00	7,704.00	7,581.90	106.92	32.47	-90.99	-184.71	5,870.73	5,241.85	5,117.65	124.20	42.203	
15,100.00	7,618.00	7,704.00	7,581.90	108.45	32.47	-90.99	-184.71	5,870.73	5,328.30	5,203.74	124.57	42.775	
15,200.00	7,618.00	7,704.00	7,581.90	109.99	32.47	-90.99	-184.71	5,870.73	5,415.22	5,290.31	124.91	43.353	
15,300.00	7,618.00	7,704.00	7,581.90	111.54	32.47	-90.99	-184.71	5,870.73	5,502.59	5,377.35	125.24	43.937	
15,400.00	7,618.00	7,704.00	7,581.90	113.09	32.47	-90.99	-184.71	5,870.73	5,590.38	5,464.82	125.55	44.527	
15,500.00	7,618.00	7,704.00	7,581.90	114.65	32.47	-90.99	-184.71	5,870.73	5,678.57	5,552.72	125.85	45.122	
15,600.00	7,618.00	7,704.00	7,581.90	116.21	32.47	-90.99	-184.71	5,870.73	5,767.15	5,641.01	126.13	45.722	
15,700.00	7,618.00	7,704.00	7,581.90	117.78	32.47	-90.99	-184.71	5,870.73	5,856.09	5,729.68	126.41	46.327	
15,800.00	7,618.00	7,704.00	7,581.90	119.36	32.47	-90.99	-184.71	5,870.73	5,945.39	5,818.72	126.67	46.937	
15,900.00	7,618.00	7,704.00	7,581.90	120.94	32.47	-90.99	-184.71	5,870.73	6,035.02	5,908.10	126.92	47.551	
16,000.00	7,618.00	7,704.00	7,581.90	122.53	32.47	-90.99	-184.71	5,870.73	6,124.97	5,997.82	127.15	48.170	
16,100.00	7,618.00	7,704.00	7,581.90	124.12	32.47	-90.99	-184.71	5,870.73	6,215.23	6,087.85	127.38	48.792	
16,200.00	7,618.00	7,704.00	7,581.90	125.72	32.47	-90.99	-184.71	5,870.73	6,305.79	6,178.19	127.60	49.418	
16,300.00	7,618.00	7,704.00	7,581.90	127.32	32.47	-90.99	-184.71	5,870.73	6,396.62	6,268.81	127.81	50.048	
16,400.00	7,618.00	7,704.15	7,582.05	128.93	32.47	-90.99	-184.71	5,870.73	6,487.73	6,359.72	128.01	50.681	
16,500.00	7,618.00	7,705.00	7,582.90	130.54	32.47	-91.01	-184.72	5,870.73	6,579.09	6,450.89	128.20	51.317	
16,600.00	7,618.00	7,705.84	7,583.75	132.15	32.47	-91.03	-184.72	5,870.73	6,670.70	6,542.31	128.39	51.956	
16,700.00	7,618.00	7,706.69	7,584.60	133.77	32.47	-91.05	-184.73	5,870.73	6,762.55	6,633.98	128.57	52.598	
16,800.00	7,618.00	7,707.55	7,585.45	135.39	32.48	-91.07	-184.74	5,870.73	6,854.63	6,725.88	128.74	53.243	
16,900.00	7,618.00	7,708.40	7,586.30	137.01	32.48	-91.09	-184.75	5,870.73	6,946.92	6,818.01	128.91	53.891	
17,000.00	7,618.00	7,709.25	7,587.16	138.64	32.48	-91.10	-184.75	5,870.74	7,039.43	6,910.36	129.07	54.540	
17,100.00	7,618.00	7,710.11	7,588.01	140.27	32.48	-91.12	-184.76	5,870.74	7,132.14	7,002.91	129.22	55.193	
17,200.00	7,618.00	7,710.97	7,588.87	141.91	32.49	-91.14	-184.77	5,870.74	7,225.04	7,095.67	129.37	55.847	
17,300.00	7,618.00	7,711.83	7,589.73	143.55	32.49	-91.16	-184.77	5,870.74	7,318.13	7,188.61	129.52	56.504	
17,400.00	7,618.00	7,712.69	7,590.60	145.19	32.49	-91.18	-184.78	5,870.74	7,411.40	7,281.74	129.65	57.163	
17,500.00	7,618.00	7,713.56	7,591.46	146.83	32.49	-91.20	-184.79	5,870.74	7,504.84	7,375.05	129.79	57.823	
17,600.00	7,618.00	7,714.42	7,592.33	148.48	32.50	-91.22	-184.80	5,870.75	7,598.45	7,468.53	129.92	58.486	
17,700.00	7,618.00	7,715.29	7,593.19	150.13	32.50	-91.23	-184.80	5,870.75	7,692.22	7,562.17	130.05	59.150	
17,800.00	7,618.00	7,716.16	7,594.06	151.78	32.50	-91.25	-184.81	5,870.75	7,786.15	7,655.98	130.17	59.816	
17,900.00	7,618.00	7,717.03	7,594.94	153.43	32.51	-91.27	-184.82	5,870.75	7,880.22	7,749.93	130.29	60.484	
18,000.00	7,618.00	7,717.91	7,595.81	155.09	32.51	-91.29	-184.83	5,870.75	7,974.44	7,844.04	130.40	61.153	
18,100.00	7,618.00	7,718.78	7,596.68	156.75	32.51	-91.31	-184.84	5,870.76	8,068.80	7,938.28	130.51	61.824	
18,200.00	7,618.00	7,719.66	7,597.56	158.41	32.51	-91.33	-184.84	5,870.76	8,163.29	8,032.67	130.62	62.496	
18,300.00	7,618.00	7,720.54	7,598.44	160.07	32.52	-91.35	-184.85	5,870.76	8,257.91	8,127.18	130.73	63.169	
18,400.00	7,618.00	7,721.42	7,599.32	161.74	32.52	-91.37	-184.86	5,870.76	8,352.66	8,221.83	130.83	63.844	
18,500.00	7,618.00	7,722.30	7,600.20	163.41	32.52	-91.38	-184.87	5,870.76	8,447.52	8,316.60	130.93	64.520	
18,600.00	7,618.00	7,723.19	7,601.09	165.08	32.52	-91.40	-184.87	5,870.76	8,542.51	8,411.48	131.03	65.197	
18,700.00	7,618.00	7,724.07	7,601.97	166.75	32.53	-91.42	-184.88	5,870.77	8,637.61	8,506.49	131.12	65.875	
18,711.30	7,618.00	7,724.17	7,602.07	166.94	32.53	-91.43	-184.88	5,870.77	8,648.36	8,517.23	131.13	65.952	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	82.01	761.59	5,422.64	5,476.49				
100.00	100.00	52.08	52.08	0.13	0.09	82.00	761.60	5,422.47	5,475.81	5,475.59	0.22	N/A	
200.00	200.00	176.90	176.88	0.49	0.36	82.00	761.80	5,420.88	5,474.47	5,473.62	0.85	6,405.572	
300.00	300.00	230.00	229.98	0.85	0.55	81.99	762.32	5,420.45	5,473.81	5,472.41	1.40	3,909.251	
400.00	400.00	327.51	327.47	1.21	0.90	81.97	764.71	5,419.91	5,473.60	5,471.49	2.10	2,600.693	
427.96	427.96	345.02	344.96	1.31	0.96	81.96	765.44	5,419.79	5,473.58	5,471.31	2.27	2,412.963	
500.00	500.00	394.93	394.78	1.57	1.14	81.93	768.29	5,419.49	5,473.72	5,471.02	2.71	2,022.299	
600.00	600.00	460.23	459.86	1.93	1.38	81.88	773.64	5,419.20	5,474.44	5,471.13	3.31	1,655.796	
700.00	700.00	1,104.17	1,091.70	2.29	4.24	80.65	885.74	5,378.53	5,471.60	5,465.10	6.50	841.697	
800.00	800.00	1,187.35	1,172.25	2.64	4.67	80.44	903.93	5,368.54	5,463.10	5,455.83	7.28	750.491	
900.00	900.00	1,282.54	1,264.75	3.00	5.16	80.22	923.44	5,357.43	5,454.84	5,446.72	8.11	672.334	
1,000.00	999.98	1,322.35	1,303.53	3.36	5.36	23.02	931.29	5,353.08	5,445.61	5,436.94	8.67	628.233	
1,100.00	1,099.84	1,371.00	1,350.95	3.71	5.61	23.01	941.05	5,348.23	5,434.24	5,424.98	9.27	586.499	
1,200.00	1,199.45	1,426.32	1,404.79	4.07	5.89	23.00	952.65	5,343.12	5,420.58	5,410.67	9.90	547.332	
1,300.00	1,298.70	1,532.27	1,507.47	4.44	6.45	22.91	976.94	5,333.40	5,404.25	5,393.44	10.81	499.717	
1,400.00	1,397.47	1,663.22	1,633.66	4.82	7.17	22.78	1,009.24	5,320.04	5,384.09	5,372.20	11.88	453.044	
1,500.00	1,495.62	1,728.52	1,696.75	5.22	7.53	22.84	1,024.76	5,313.53	5,360.94	5,348.34	12.60	425.487	
1,600.00	1,593.06	1,830.84	1,796.10	5.65	8.07	22.88	1,047.26	5,303.94	5,335.01	5,321.51	13.50	395.191	
1,700.00	1,689.64	1,918.90	1,881.94	6.11	8.52	23.00	1,065.20	5,295.86	5,305.93	5,291.61	14.31	370.683	
1,800.00	1,785.27	1,983.19	1,944.82	6.61	8.84	23.20	1,077.42	5,290.33	5,274.12	5,259.11	15.01	351.380	
1,900.00	1,879.82	2,071.86	2,031.42	7.15	9.29	23.40	1,095.01	5,283.09	5,239.81	5,223.97	15.84	330.810	
2,000.00	1,973.17	2,283.71	2,237.04	7.73	10.41	23.50	1,141.47	5,262.14	5,201.31	5,183.99	17.32	300.389	
2,100.00	2,065.21	2,381.16	2,331.99	8.37	10.91	23.81	1,160.67	5,251.63	5,158.73	5,140.53	18.20	283.441	
2,200.00	2,155.84	2,446.95	2,396.30	9.07	11.24	24.20	1,172.77	5,244.82	5,113.47	5,094.53	18.94	270.000	
2,300.00	2,244.94	2,505.54	2,453.47	9.82	11.54	24.63	1,184.18	5,238.97	5,065.88	5,046.22	19.66	257.715	
2,400.00	2,332.39	2,560.65	2,507.15	10.64	11.82	25.10	1,195.46	5,233.71	5,016.05	4,995.67	20.38	246.135	
2,500.00	2,418.11	2,674.36	2,617.71	11.53	12.42	25.62	1,219.78	5,222.93	4,963.77	4,942.37	21.40	231.951	
2,558.91	2,467.74	2,743.22	2,684.61	12.08	12.78	25.96	1,234.50	5,215.91	4,931.33	4,909.32	22.02	223.980	
2,600.00	2,502.13	2,789.62	2,729.73	12.47	13.03	25.97	1,244.21	5,211.07	4,908.29	4,885.85	22.44	218.743	
2,700.00	2,585.83	2,886.78	2,824.00	13.45	13.55	25.98	1,265.18	5,200.46	4,851.90	4,828.50	23.40	207.366	
2,800.00	2,669.53	2,952.73	2,887.84	14.44	13.91	25.98	1,280.07	5,193.21	4,795.61	4,771.38	24.23	197.932	
2,900.00	2,753.22	3,006.44	2,939.69	15.46	14.21	25.96	1,292.80	5,187.44	4,739.70	4,714.68	25.02	189.406	
3,000.00	2,836.92	3,060.38	2,991.57	16.48	14.52	25.94	1,306.46	5,181.84	4,684.34	4,658.50	25.83	181.322	
3,100.00	2,920.62	3,127.70	3,056.22	17.52	14.91	25.90	1,323.98	5,175.09	4,629.36	4,602.63	26.73	173.206	
3,200.00	3,004.32	3,235.67	3,159.90	18.56	15.53	25.84	1,352.09	5,164.26	4,574.42	4,546.59	27.82	164.414	
3,300.00	3,088.01	3,345.91	3,265.71	19.61	16.17	25.78	1,380.71	5,152.47	4,518.89	4,489.96	28.93	156.202	
3,400.00	3,171.71	3,409.81	3,326.99	20.67	16.55	25.74	1,397.49	5,145.58	4,463.35	4,433.52	29.83	149.633	
3,500.00	3,255.41	3,540.90	3,452.45	21.73	17.33	25.64	1,432.51	5,130.89	4,407.54	4,376.50	31.04	141.983	
3,600.00	3,339.10	3,618.06	3,526.20	22.80	17.79	25.58	1,453.29	5,121.79	4,351.29	4,319.28	32.02	135.912	
3,700.00	3,422.80	3,678.90	3,584.57	23.87	18.14	25.54	1,469.00	5,114.95	4,295.31	4,262.40	32.91	130.523	
3,800.00	3,506.50	3,743.08	3,646.53	24.94	18.51	25.52	1,484.35	5,108.28	4,239.73	4,205.91	33.82	125.370	
3,900.00	3,590.20	3,818.66	3,719.47	26.02	18.94	25.49	1,502.67	5,100.69	4,184.47	4,149.70	34.77	120.336	
4,000.00	3,673.89	3,942.01	3,838.15	27.10	19.64	25.42	1,533.52	5,087.38	4,128.70	4,092.79	35.92	114.948	
4,100.00	3,757.59	4,033.29	3,926.46	28.18	20.15	25.40	1,554.35	5,077.43	4,072.53	4,035.60	36.93	110.288	
4,200.00	3,841.29	4,109.77	4,000.58	29.26	20.56	25.40	1,571.28	5,069.15	4,016.31	3,978.44	37.87	106.047	
4,300.00	3,924.99	4,173.02	4,062.10	30.35	20.90	25.41	1,584.48	5,062.71	3,960.41	3,921.64	38.78	102.135	
4,400.00	4,008.68	4,260.15	4,147.11	31.44	21.34	25.45	1,601.65	5,054.24	3,904.71	3,864.97	39.74	98.246	
4,500.00	4,092.38	4,410.57	4,293.66	32.52	22.12	25.50	1,631.45	5,038.12	3,848.21	3,807.32	40.89	94.122	
4,600.00	4,176.08	4,487.68	4,368.54	33.62	22.53	25.52	1,647.35	5,028.88	3,790.83	3,749.00	41.83	90.626	
4,700.00	4,259.77	4,532.55	4,412.23	34.71	22.76	25.53	1,656.29	5,023.95	3,734.12	3,691.42	42.70	87.456	
4,800.00	4,343.47	4,555.00	4,434.14	35.80	22.88	25.54	1,660.63	5,021.68	3,678.37	3,634.86	43.52	84.523	
4,900.00	4,427.17	4,607.65	4,485.73	36.89	23.13	25.59	1,670.10	5,017.15	3,623.50	3,579.09	44.40	81.604	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,510.87	4,648.00	4,525.47	37.99	23.32	25.64	1,676.58	5,014.56	3,569.85	3,524.58	45.27	78.852	
5,100.00	4,594.56	4,771.60	4,647.68	39.08	23.84	25.86	1,693.39	5,006.94	3,516.06	3,469.79	46.27	75.988	
5,200.00	4,678.26	4,838.84	4,714.42	40.18	24.10	26.02	1,700.60	5,003.02	3,462.16	3,414.99	47.17	73.391	
5,300.00	4,761.96	4,904.69	4,779.91	41.28	24.34	26.21	1,706.60	4,999.72	3,408.72	3,360.65	48.07	70.910	
5,400.00	4,845.66	4,987.16	4,862.05	42.37	24.63	26.48	1,712.97	4,996.11	3,355.62	3,306.64	48.99	68.502	
5,500.00	4,929.35	5,055.45	4,930.16	43.47	24.86	26.72	1,717.09	4,993.33	3,302.61	3,252.72	49.89	66.197	
5,600.00	5,013.05	5,116.00	4,990.61	44.57	25.05	26.97	1,719.94	4,991.56	3,250.36	3,199.57	50.80	63.985	
5,700.00	5,096.75	5,197.35	5,071.93	45.67	25.27	27.35	1,721.53	4,989.88	3,198.56	3,146.85	51.71	61.857	
5,800.00	5,180.45	5,266.29	5,140.86	46.77	25.43	27.74	1,720.71	4,988.86	3,146.95	3,094.33	52.62	59.806	
5,900.00	5,264.14	5,343.34	5,217.88	47.87	25.60	28.19	1,718.92	4,988.24	3,095.88	3,042.33	53.55	57.817	
6,000.00	5,347.84	5,448.30	5,322.80	48.97	25.84	28.83	1,716.53	4,987.05	3,044.77	2,990.28	54.49	55.880	
6,100.00	5,431.54	5,538.87	5,413.33	50.07	26.05	29.41	1,714.39	4,985.36	2,993.21	2,937.76	55.45	53.980	
6,200.00	5,515.23	5,611.46	5,485.89	51.17	26.22	29.88	1,712.81	4,984.09	2,941.99	2,885.56	56.43	52.131	
6,300.00	5,598.93	5,680.68	5,555.10	52.27	26.39	30.33	1,711.74	4,983.12	2,891.33	2,833.89	57.44	50.336	
6,400.00	5,682.63	5,753.75	5,628.16	53.38	26.56	30.82	1,710.94	4,982.34	2,841.21	2,782.74	58.47	48.594	
6,500.00	5,766.33	5,836.47	5,710.88	54.48	26.77	31.38	1,710.23	4,981.62	2,791.49	2,731.97	59.52	46.902	
6,600.00	5,850.02	5,912.76	5,787.16	55.58	26.96	31.91	1,709.69	4,980.97	2,742.02	2,681.43	60.59	45.254	
6,700.00	5,933.72	5,991.10	5,865.50	56.68	27.16	32.47	1,709.44	4,980.55	2,693.08	2,631.39	61.69	43.656	
6,800.00	6,017.42	6,076.13	5,950.53	57.79	27.38	33.09	1,709.25	4,980.03	2,644.34	2,581.53	62.81	42.099	
6,900.00	6,101.12	6,154.98	6,029.37	58.89	27.60	33.68	1,709.34	4,979.62	2,595.96	2,531.99	63.96	40.586	
7,000.00	6,184.81	6,238.78	6,113.17	59.99	27.83	34.33	1,709.68	4,979.24	2,547.90	2,482.76	65.14	39.114	
7,100.00	6,268.51	6,314.26	6,188.65	61.10	28.04	34.92	1,710.12	4,979.00	2,500.25	2,433.91	66.35	37.685	
7,200.00	6,352.21	6,387.95	6,262.34	62.20	28.24	35.52	1,710.49	4,979.03	2,453.20	2,385.62	67.58	36.302	
7,300.00	6,435.90	6,470.40	6,344.79	63.31	28.46	36.23	1,710.47	4,979.37	2,406.75	2,337.92	68.84	34.963	
7,400.00	6,519.60	6,557.07	6,431.46	64.41	28.69	36.99	1,710.49	4,979.56	2,360.49	2,290.37	70.13	33.660	
7,500.00	6,603.30	6,642.67	6,517.06	65.51	28.92	37.78	1,710.39	4,979.78	2,314.62	2,243.17	71.45	32.395	
7,600.00	6,687.00	6,734.18	6,608.57	66.62	29.16	38.66	1,710.18	4,979.69	2,268.84	2,196.03	72.81	31.161	
7,700.00	6,770.69	6,817.26	6,691.65	67.72	29.39	39.48	1,710.06	4,979.54	2,223.41	2,149.20	74.21	29.962	
7,800.00	6,854.39	6,905.15	6,779.54	68.83	29.63	40.38	1,710.04	4,979.30	2,178.33	2,102.68	75.64	28.797	
7,900.00	6,938.09	6,987.75	6,862.13	69.93	29.86	41.26	1,710.00	4,979.02	2,133.66	2,056.53	77.12	27.666	
7,933.18	6,965.86	7,015.52	6,889.91	70.30	29.94	41.57	1,709.97	4,978.93	2,118.94	2,041.32	77.62	27.298	
7,950.00	6,980.00	7,029.66	6,904.05	70.49	29.98	38.58	1,709.96	4,978.88	2,111.45	2,033.58	77.87	27.115	
8,000.00	7,022.68	7,072.35	6,946.74	71.01	30.10	28.89	1,709.93	4,978.73	2,088.72	2,010.19	78.53	26.597	
8,050.00	7,066.06	7,115.42	6,989.81	71.51	30.22	18.10	1,709.92	4,978.59	2,065.36	1,986.29	79.07	26.121	
8,100.00	7,109.82	7,158.80	7,033.18	71.97	30.34	6.55	1,709.96	4,978.45	2,041.50	1,962.02	79.47	25.687	
8,150.00	7,153.63	7,204.48	7,078.87	72.38	30.47	-5.26	1,710.06	4,978.30	2,017.28	1,937.54	79.74	25.299	
8,200.00	7,197.14	7,251.11	7,125.50	72.74	30.61	-16.85	1,710.19	4,978.08	1,992.82	1,912.97	79.85	24.956	
8,250.00	7,240.04	7,296.34	7,170.73	73.05	30.74	-27.77	1,710.34	4,977.81	1,968.35	1,888.53	79.82	24.659	
8,300.00	7,281.99	7,340.15	7,214.54	73.31	30.87	-37.78	1,710.47	4,977.49	1,944.13	1,864.48	79.64	24.411	
8,350.00	7,322.67	7,382.06	7,256.45	73.52	30.99	-46.80	1,710.58	4,977.14	1,920.42	1,841.11	79.31	24.213	
8,400.00	7,361.77	7,421.80	7,296.18	73.68	31.11	-54.83	1,710.72	4,976.79	1,897.56	1,818.72	78.85	24.067	
8,450.00	7,399.01	7,459.55	7,333.93	73.78	31.22	-61.91	1,710.88	4,976.44	1,875.86	1,797.62	78.24	23.975	
8,500.00	7,434.08	7,495.03	7,369.41	73.85	31.32	-68.12	1,711.05	4,976.10	1,855.65	1,778.14	77.51	23.941	SF
8,550.00	7,466.74	7,527.97	7,402.34	73.87	31.42	-73.51	1,711.24	4,975.78	1,837.28	1,760.61	76.67	23.964	
8,600.00	7,496.72	7,558.12	7,432.49	73.85	31.51	-78.12	1,711.43	4,975.46	1,821.08	1,745.34	75.74	24.045	
8,650.00	7,523.80	7,580.81	7,455.19	73.79	31.58	-81.88	1,711.56	4,975.27	1,807.42	1,732.67	74.75	24.179	
8,700.00	7,547.77	7,602.05	7,476.42	73.70	31.64	-84.97	1,711.67	4,975.11	1,796.59	1,722.86	73.72	24.369	
8,750.00	7,568.45	7,620.43	7,494.80	73.58	31.69	-87.41	1,711.74	4,974.99	1,788.83	1,716.14	72.68	24.611	
8,800.00	7,585.69	7,635.77	7,510.14	73.43	31.74	-89.21	1,711.80	4,974.91	1,784.34	1,712.68	71.67	24.898	
8,840.24	7,596.97	7,645.91	7,520.28	73.29	31.77	-90.21	1,711.83	4,974.87	1,783.22	1,712.33	70.88	25.157	CC, ES
8,850.00	7,599.35	7,648.09	7,522.46	73.26	31.78	-90.39	1,711.84	4,974.86	1,783.28	1,712.58	70.70	25.223	
8,900.00	7,609.33	7,657.17	7,531.54	73.07	31.80	-90.97	1,711.87	4,974.83	1,785.73	1,715.92	69.81	25.578	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,950.00	7,615.55	7,662.78	7,537.15	72.87	31.82	-90.93	1,711.89	4,974.81	1,791.72	1,722.68	69.04	25.953	
9,000.00	7,617.97	7,664.87	7,539.24	72.65	31.83	-90.27	1,711.89	4,974.80	1,801.19	1,732.80	68.39	26.339	
9,006.60	7,618.00	7,664.88	7,539.25	72.62	31.83	-90.14	1,711.89	4,974.80	1,802.70	1,734.39	68.31	26.390	
9,100.00	7,618.00	7,664.60	7,538.97	72.22	31.82	-90.13	1,711.89	4,974.80	1,826.68	1,759.17	67.51	27.060	
9,200.00	7,618.00	7,664.30	7,538.67	71.80	31.82	-90.12	1,711.89	4,974.80	1,857.23	1,790.02	67.21	27.634	
9,300.00	7,618.00	7,664.01	7,538.37	71.41	31.82	-90.11	1,711.89	4,974.80	1,892.57	1,825.12	67.46	28.056	
9,400.00	7,618.00	7,663.71	7,538.08	71.04	31.82	-90.10	1,711.89	4,974.81	1,932.45	1,864.27	68.18	28.342	
9,500.00	7,618.00	7,663.41	7,537.78	70.68	31.82	-90.09	1,711.89	4,974.81	1,976.59	1,907.29	69.30	28.524	
9,600.00	7,618.00	7,663.12	7,537.48	70.35	31.82	-90.08	1,711.89	4,974.81	2,024.71	1,954.02	70.69	28.641	
9,700.00	7,618.00	7,662.82	7,537.19	70.04	31.82	-90.07	1,711.89	4,974.81	2,076.53	2,004.25	72.29	28.726	
9,800.00	7,618.00	7,662.52	7,536.89	69.75	31.82	-90.06	1,711.89	4,974.81	2,131.79	2,057.79	74.00	28.808	
9,900.00	7,618.00	7,662.23	7,536.60	69.47	31.82	-90.05	1,711.88	4,974.81	2,190.22	2,114.45	75.77	28.907	
10,000.00	7,618.00	7,661.93	7,536.30	69.22	31.82	-90.04	1,711.88	4,974.81	2,251.58	2,174.03	77.55	29.033	
10,100.00	7,618.00	7,661.64	7,536.01	68.99	31.82	-90.03	1,711.88	4,974.81	2,315.63	2,236.32	79.31	29.196	
10,200.00	7,618.00	7,661.34	7,535.71	68.78	31.82	-90.02	1,711.88	4,974.81	2,382.16	2,301.13	81.03	29.399	
10,300.00	7,618.00	7,661.05	7,535.42	68.59	31.81	-90.01	1,711.88	4,974.81	2,450.96	2,368.28	82.69	29.642	
10,400.00	7,618.00	7,660.75	7,535.12	68.42	31.81	-90.00	1,711.88	4,974.82	2,521.85	2,437.58	84.27	29.925	
10,500.00	7,618.00	7,660.46	7,534.83	68.28	31.81	-89.99	1,711.88	4,974.82	2,594.66	2,508.88	85.78	30.246	
10,600.00	7,618.00	7,660.16	7,534.53	68.16	31.81	-89.98	1,711.88	4,974.82	2,669.24	2,582.02	87.22	30.603	
10,700.00	7,618.00	7,659.87	7,534.24	68.06	31.81	-89.98	1,711.88	4,974.82	2,745.42	2,656.85	88.58	30.994	
10,800.00	7,618.00	7,659.58	7,533.95	67.99	31.81	-89.97	1,711.88	4,974.82	2,823.10	2,733.24	89.86	31.416	
10,900.00	7,618.00	7,659.28	7,533.65	67.95	31.81	-89.96	1,711.87	4,974.82	2,902.14	2,811.07	91.07	31.866	
11,000.00	7,618.00	7,658.99	7,533.36	67.95	31.81	-89.95	1,711.87	4,974.82	2,982.44	2,890.23	92.21	32.343	
11,100.00	7,618.00	7,658.70	7,533.07	67.97	31.81	-89.94	1,711.87	4,974.82	3,063.90	2,970.62	93.29	32.844	
11,200.00	7,618.00	7,658.40	7,532.77	68.04	31.81	-89.93	1,711.87	4,974.82	3,146.43	3,052.13	94.30	33.367	
11,300.00	7,618.00	7,658.11	7,532.48	68.15	31.81	-89.92	1,711.87	4,974.82	3,229.95	3,134.70	95.25	33.910	
11,400.00	7,618.00	7,657.82	7,532.19	68.30	31.80	-89.91	1,711.87	4,974.83	3,314.38	3,218.23	96.15	34.472	
11,500.00	7,618.00	7,657.53	7,531.90	68.50	31.80	-89.90	1,711.87	4,974.83	3,399.65	3,302.66	96.99	35.050	
11,600.00	7,618.00	7,657.23	7,531.60	68.75	31.80	-89.89	1,711.87	4,974.83	3,485.71	3,387.92	97.79	35.644	
11,700.00	7,618.00	7,656.94	7,531.31	69.06	31.80	-89.88	1,711.87	4,974.83	3,572.49	3,473.95	98.54	36.253	
11,800.00	7,618.00	7,656.65	7,531.02	69.44	31.80	-89.87	1,711.87	4,974.83	3,659.95	3,560.70	99.25	36.874	
11,900.00	7,618.00	7,656.36	7,530.73	69.88	31.80	-89.86	1,711.87	4,974.83	3,748.04	3,648.11	99.93	37.508	
12,000.00	7,618.00	7,656.07	7,530.44	70.39	31.80	-89.85	1,711.86	4,974.83	3,836.71	3,736.14	100.56	38.153	
12,100.00	7,618.00	7,655.78	7,530.15	70.97	31.80	-89.84	1,711.86	4,974.83	3,925.92	3,824.76	101.16	38.808	
12,200.00	7,618.00	7,655.49	7,529.85	71.63	31.80	-89.83	1,711.86	4,974.83	4,015.64	3,913.91	101.73	39.472	
12,300.00	7,618.00	7,655.20	7,529.56	72.35	31.80	-89.82	1,711.86	4,974.83	4,105.84	4,003.56	102.27	40.146	
12,400.00	7,618.00	7,654.91	7,529.27	73.15	31.80	-89.81	1,711.86	4,974.84	4,196.48	4,093.69	102.79	40.827	
12,500.00	7,618.00	7,654.61	7,528.98	74.01	31.80	-89.80	1,711.86	4,974.84	4,287.54	4,184.26	103.27	41.516	
12,600.00	7,618.00	7,654.32	7,528.69	74.93	31.79	-89.79	1,711.86	4,974.84	4,378.98	4,275.25	103.74	42.212	
12,700.00	7,618.00	7,654.04	7,528.40	75.91	31.79	-89.78	1,711.86	4,974.84	4,470.80	4,366.62	104.18	42.914	
12,800.00	7,618.00	7,653.75	7,528.11	76.95	31.79	-89.77	1,711.86	4,974.84	4,562.96	4,458.36	104.60	43.623	
12,900.00	7,618.00	7,653.46	7,527.83	78.04	31.79	-89.77	1,711.86	4,974.84	4,655.44	4,550.44	105.00	44.337	
13,000.00	7,618.00	7,653.17	7,527.54	79.16	31.79	-89.76	1,711.86	4,974.84	4,748.22	4,642.84	105.38	45.057	
13,100.00	7,618.00	7,652.88	7,527.25	80.33	31.79	-89.75	1,711.85	4,974.84	4,841.30	4,735.55	105.75	45.781	
13,200.00	7,618.00	7,654.20	7,528.56	81.54	31.79	-89.79	1,711.86	4,974.84	4,934.64	4,828.54	106.10	46.510	
13,300.00	7,618.00	7,653.91	7,528.28	82.78	31.79	-89.78	1,711.85	4,974.84	5,028.24	4,921.81	106.43	47.243	
13,400.00	7,618.00	7,653.63	7,528.00	84.05	31.79	-89.77	1,711.85	4,974.84	5,122.08	5,015.33	106.75	47.981	
13,500.00	7,618.00	7,653.34	7,527.71	85.35	31.79	-89.76	1,711.85	4,974.84	5,216.15	5,109.09	107.06	48.722	
13,600.00	7,618.00	7,653.05	7,527.42	86.67	31.79	-89.75	1,711.85	4,974.84	5,310.44	5,203.09	107.36	49.466	
13,700.00	7,618.00	7,652.76	7,527.13	88.02	31.79	-89.74	1,711.85	4,974.85	5,404.94	5,297.30	107.64	50.214	
13,800.00	7,618.00	7,652.46	7,526.83	89.38	31.79	-89.73	1,711.85	4,974.85	5,499.62	5,391.71	107.91	50.965	
13,900.00	7,618.00	7,652.16	7,526.53	90.77	31.79	-89.72	1,711.85	4,974.85	5,594.50	5,486.32	108.17	51.718	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,618.00	7,651.87	7,526.23	92.17	31.79	-89.71	1,711.85	4,974.85	5,689.55	5,581.12	108.42	52.475	
14,100.00	7,618.00	7,651.56	7,525.93	93.59	31.79	-89.70	1,711.85	4,974.85	5,784.76	5,676.09	108.67	53.234	
14,200.00	7,618.00	7,651.26	7,525.63	95.02	31.79	-89.69	1,711.85	4,974.85	5,880.13	5,771.23	108.90	53.996	
14,300.00	7,618.00	7,650.95	7,525.32	96.47	31.78	-89.68	1,711.85	4,974.85	5,975.66	5,866.53	109.13	54.759	
14,400.00	7,618.00	7,650.65	7,525.02	97.93	31.78	-89.67	1,711.85	4,974.85	6,071.33	5,961.99	109.34	55.525	
14,500.00	7,618.00	7,650.34	7,524.70	99.41	31.78	-89.66	1,711.84	4,974.85	6,167.14	6,057.58	109.55	56.293	
14,600.00	7,618.00	7,650.02	7,524.39	100.89	31.78	-89.65	1,711.84	4,974.85	6,263.07	6,153.32	109.76	57.063	
14,700.00	7,618.00	7,649.71	7,524.08	102.38	31.78	-89.64	1,711.84	4,974.86	6,359.14	6,249.18	109.95	57.834	
14,800.00	7,618.00	7,649.39	7,523.76	103.89	31.78	-89.63	1,711.84	4,974.86	6,455.32	6,345.18	110.14	58.608	
14,900.00	7,618.00	7,649.07	7,523.44	105.40	31.78	-89.62	1,711.84	4,974.86	6,551.62	6,441.29	110.33	59.382	
15,000.00	7,618.00	7,648.74	7,523.11	106.92	31.78	-89.61	1,711.84	4,974.86	6,648.02	6,537.52	110.51	60.159	
15,100.00	7,618.00	7,648.42	7,522.79	108.45	31.78	-89.60	1,711.84	4,974.86	6,744.53	6,633.85	110.68	60.936	
15,200.00	7,618.00	7,648.09	7,522.46	109.99	31.78	-89.59	1,711.84	4,974.86	6,841.15	6,730.30	110.85	61.715	
15,300.00	7,618.00	7,647.76	7,522.13	111.54	31.78	-89.58	1,711.84	4,974.86	6,937.85	6,826.84	111.01	62.495	
15,400.00	7,618.00	7,647.42	7,521.79	113.09	31.77	-89.57	1,711.84	4,974.86	7,034.65	6,923.48	111.17	63.277	
15,500.00	7,618.00	7,647.09	7,521.46	114.65	31.77	-89.56	1,711.84	4,974.87	7,131.54	7,020.21	111.33	64.059	
15,600.00	7,618.00	7,646.75	7,521.12	116.21	31.77	-89.55	1,711.83	4,974.87	7,228.51	7,117.03	111.48	64.842	
15,700.00	7,618.00	7,646.41	7,520.77	117.78	31.77	-89.54	1,711.83	4,974.87	7,325.57	7,213.94	111.62	65.627	
15,800.00	7,618.00	7,646.06	7,520.43	119.36	31.77	-89.52	1,711.83	4,974.87	7,422.70	7,310.93	111.77	66.412	
15,900.00	7,618.00	7,645.71	7,520.08	120.94	31.77	-89.51	1,711.83	4,974.87	7,519.91	7,408.00	111.91	67.198	
16,000.00	7,618.00	7,645.36	7,519.73	122.53	31.77	-89.50	1,711.83	4,974.87	7,617.18	7,505.14	112.04	67.985	
16,100.00	7,618.00	7,645.01	7,519.38	124.12	31.77	-89.49	1,711.83	4,974.87	7,714.53	7,602.36	112.17	68.773	
16,200.00	7,618.00	7,644.65	7,519.02	125.72	31.77	-89.48	1,711.83	4,974.88	7,811.95	7,699.65	112.30	69.561	
16,300.00	7,618.00	7,644.29	7,518.66	127.32	31.76	-89.47	1,711.83	4,974.88	7,909.43	7,797.00	112.43	70.350	
16,400.00	7,618.00	7,643.93	7,518.30	128.93	31.76	-89.45	1,711.83	4,974.88	8,006.97	7,894.42	112.55	71.139	
16,500.00	7,618.00	7,643.56	7,517.93	130.54	31.76	-89.44	1,711.82	4,974.88	8,104.57	7,991.90	112.67	71.930	
16,600.00	7,618.00	7,643.19	7,517.56	132.15	31.76	-89.43	1,711.82	4,974.88	8,202.23	8,089.44	112.79	72.720	
16,700.00	7,618.00	7,642.82	7,517.19	133.77	31.76	-89.42	1,711.82	4,974.88	8,299.95	8,187.04	112.91	73.511	
16,800.00	7,618.00	7,642.45	7,516.82	135.39	31.76	-89.41	1,711.82	4,974.88	8,397.72	8,284.70	113.02	74.303	
16,900.00	7,618.00	7,642.07	7,516.44	137.01	31.76	-89.39	1,711.82	4,974.89	8,495.54	8,382.41	113.13	75.094	
17,000.00	7,618.00	7,641.69	7,516.05	138.64	31.76	-89.38	1,711.82	4,974.89	8,593.41	8,480.17	113.24	75.887	
17,100.00	7,618.00	7,641.30	7,515.67	140.27	31.76	-89.37	1,711.82	4,974.89	8,691.33	8,577.99	113.35	76.679	
17,200.00	7,618.00	7,640.91	7,515.28	141.91	31.75	-89.36	1,711.82	4,974.89	8,789.30	8,675.85	113.45	77.472	
17,300.00	7,618.00	7,640.52	7,514.89	143.55	31.75	-89.34	1,711.82	4,974.89	8,887.31	8,773.76	113.55	78.265	
17,400.00	7,618.00	7,640.12	7,514.49	145.19	31.75	-89.33	1,711.81	4,974.89	8,985.37	8,871.71	113.65	79.058	
17,500.00	7,618.00	7,639.73	7,514.09	146.83	31.75	-89.32	1,711.81	4,974.90	9,083.47	8,969.71	113.75	79.852	
17,600.00	7,618.00	7,639.32	7,513.69	148.48	31.75	-89.30	1,711.81	4,974.90	9,181.61	9,067.76	113.85	80.646	
17,700.00	7,618.00	7,638.92	7,513.29	150.13	31.75	-89.29	1,711.81	4,974.90	9,279.79	9,165.84	113.95	81.439	
17,800.00	7,618.00	7,638.51	7,512.88	151.78	31.75	-89.28	1,711.81	4,974.90	9,378.00	9,263.96	114.04	82.233	
17,900.00	7,618.00	7,638.09	7,512.46	153.43	31.75	-89.26	1,711.81	4,974.90	9,476.26	9,362.12	114.13	83.027	
18,000.00	7,618.00	7,637.68	7,512.05	155.09	31.75	-89.25	1,711.81	4,974.91	9,574.55	9,460.32	114.23	83.822	
18,100.00	7,618.00	7,637.26	7,511.62	156.75	31.74	-89.24	1,711.80	4,974.91	9,672.88	9,558.56	114.32	84.616	
18,200.00	7,618.00	7,636.83	7,511.20	158.41	31.74	-89.22	1,711.80	4,974.91	9,771.24	9,656.83	114.40	85.410	
18,300.00	7,618.00	7,636.40	7,510.77	160.07	31.74	-89.21	1,711.80	4,974.91	9,869.63	9,755.14	114.49	86.204	
18,400.00	7,618.00	7,635.97	7,510.34	161.74	31.74	-89.19	1,711.80	4,974.91	9,968.05	9,853.48	114.58	86.998	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	81.89	776.17	5,447.84	5,503.48				
100.00	100.00	0.00	0.00	0.13	0.00	81.89	776.17	5,447.84	5,502.88	5,502.75	0.13	N/A	
200.00	200.00	65.84	65.84	0.49	0.11	81.89	776.48	5,448.11	5,503.40	5,502.80	0.60	9,155.819	
300.00	300.00	138.00	137.98	0.85	0.23	81.88	777.55	5,449.00	5,504.77	5,503.69	1.08	5,111.899	
400.00	400.00	138.00	137.98	1.21	0.23	81.88	777.55	5,449.00	5,507.11	5,505.67	1.44	3,829.239	
500.00	500.00	198.80	198.74	1.57	0.45	81.86	779.28	5,450.57	5,510.32	5,508.30	2.02	2,733.858	
600.00	600.00	229.00	228.89	1.93	0.56	81.85	780.52	5,451.75	5,514.87	5,512.39	2.48	2,220.357	
700.00	700.00	265.03	264.83	2.29	0.70	81.84	782.19	5,453.57	5,520.63	5,517.65	2.97	1,856.368	
800.00	800.00	320.00	319.61	2.64	0.90	81.82	784.92	5,457.32	5,527.78	5,524.25	3.53	1,565.485	
900.00	900.00	320.00	319.61	3.00	0.90	81.82	784.92	5,457.32	5,535.87	5,531.98	3.89	1,423.954	
1,000.00	999.98	369.33	368.69	3.36	1.09	24.54	787.61	5,461.52	5,543.62	5,539.20	4.42	1,254.559	
1,100.00	1,099.84	411.00	410.08	3.71	1.26	24.48	790.13	5,465.56	5,549.30	5,544.39	4.92	1,128.913	
1,200.00	1,199.45	447.64	446.42	4.07	1.41	24.45	792.63	5,469.47	5,552.91	5,547.51	5.40	1,028.333	
1,300.00	1,298.70	503.00	501.22	4.44	1.63	24.43	797.11	5,476.00	5,554.50	5,548.54	5.96	932.366	
1,400.00	1,397.47	503.00	501.22	4.82	1.63	24.43	797.11	5,476.00	5,554.01	5,547.70	6.31	880.520	
1,500.00	1,495.62	564.76	562.12	5.22	1.90	24.45	803.28	5,484.12	5,551.26	5,544.35	6.91	803.713	
1,600.00	1,593.06	594.00	590.87	5.65	2.03	24.49	806.68	5,488.26	5,546.57	5,539.19	7.38	751.195	
1,700.00	1,689.64	656.94	652.54	6.11	2.33	24.55	815.06	5,497.61	5,539.60	5,531.58	8.01	691.206	
1,800.00	1,785.27	685.00	679.95	6.61	2.46	24.62	819.27	5,501.94	5,530.47	5,521.96	8.51	649.927	
1,900.00	1,879.82	748.75	742.00	7.15	2.78	24.71	829.64	5,512.24	5,519.01	5,509.83	9.18	601.319	
2,000.00	1,973.17	805.75	797.24	7.73	3.07	24.83	839.71	5,522.02	5,505.42	5,495.58	9.84	559.644	
2,100.00	2,065.21	893.13	881.62	8.37	3.54	24.97	856.65	5,537.12	5,489.17	5,478.51	10.65	515.189	
2,200.00	2,155.84	994.27	978.95	9.07	4.09	25.13	878.23	5,554.14	5,469.70	5,458.12	11.57	472.560	
2,300.00	2,244.94	1,070.00	1,051.57	9.82	4.52	25.32	895.46	5,566.97	5,447.48	5,435.07	12.40	439.269	
2,400.00	2,332.39	1,279.03	1,251.99	10.64	5.72	25.56	944.33	5,600.64	5,421.71	5,407.79	13.92	389.557	
2,500.00	2,418.11	1,359.17	1,329.11	11.53	6.17	25.85	962.45	5,612.79	5,391.67	5,376.86	14.81	363.955	
2,558.91	2,467.74	1,404.12	1,372.30	12.08	6.42	26.05	972.77	5,619.69	5,372.72	5,357.38	15.34	350.148	
2,600.00	2,502.13	1,430.00	1,397.15	12.47	6.57	26.06	978.80	5,623.69	5,359.21	5,343.52	15.69	341.577	
2,700.00	2,585.83	1,499.84	1,464.08	13.45	6.98	26.08	995.47	5,634.65	5,326.67	5,310.09	16.58	321.294	
2,800.00	2,669.53	1,560.52	1,522.07	14.44	7.34	26.10	1,010.40	5,644.45	5,294.67	5,277.24	17.44	303.607	
2,900.00	2,753.22	1,619.09	1,577.95	15.46	7.69	26.11	1,024.95	5,654.29	5,263.33	5,245.03	18.30	287.558	
3,000.00	2,836.92	1,722.36	1,676.55	16.48	8.31	26.15	1,050.01	5,672.06	5,232.29	5,212.89	19.40	269.696	
3,100.00	2,920.62	1,883.38	1,831.43	17.52	9.24	26.25	1,084.61	5,699.20	5,200.38	5,179.63	20.76	250.522	
3,200.00	3,004.32	2,055.97	1,999.00	18.56	10.16	26.44	1,115.51	5,726.52	5,166.76	5,144.65	22.12	233.591	
3,300.00	3,088.01	2,126.87	2,068.18	19.61	10.52	26.54	1,126.13	5,737.89	5,133.17	5,110.14	23.03	222.879	
3,400.00	3,171.71	2,179.00	2,119.02	20.67	10.79	26.62	1,133.70	5,746.54	5,100.13	5,076.25	23.87	213.634	
3,500.00	3,255.41	2,221.07	2,159.98	21.73	11.01	26.69	1,139.89	5,753.89	5,067.99	5,043.31	24.69	205.302	
3,600.00	3,339.10	2,272.00	2,209.37	22.80	11.28	26.76	1,147.74	5,763.51	5,037.05	5,011.51	25.54	197.206	
3,700.00	3,422.80	2,298.56	2,235.06	23.87	11.43	26.80	1,151.96	5,768.79	5,007.08	4,980.78	26.31	190.328	
3,800.00	3,506.50	2,345.21	2,280.08	24.94	11.69	26.87	1,159.50	5,778.41	4,978.14	4,950.97	27.17	183.252	
3,900.00	3,590.20	2,417.57	2,349.73	26.02	12.10	26.97	1,171.54	5,793.89	4,950.01	4,921.87	28.14	175.879	
4,000.00	3,673.89	2,497.29	2,426.37	27.10	12.56	27.07	1,185.28	5,811.00	4,922.11	4,892.95	29.16	168.775	
4,100.00	3,757.59	2,582.07	2,507.81	28.18	13.06	27.19	1,199.74	5,829.63	4,894.67	4,864.46	30.21	162.005	
4,200.00	3,841.29	2,791.13	2,709.23	29.26	14.26	27.47	1,235.43	5,872.74	4,865.76	4,833.96	31.80	153.010	
4,300.00	3,924.99	2,871.12	2,786.39	30.35	14.71	27.58	1,249.39	5,888.53	4,836.27	4,803.44	32.84	147.276	
4,400.00	4,008.68	2,972.28	2,883.86	31.44	15.29	27.70	1,268.03	5,908.15	4,806.58	4,772.60	33.98	141.457	
4,500.00	4,092.38	3,058.57	2,966.62	32.52	15.80	27.79	1,285.52	5,925.22	4,777.51	4,742.44	35.07	136.242	
4,600.00	4,176.08	3,163.30	3,067.19	33.62	16.42	27.90	1,306.76	5,945.28	4,747.86	4,711.62	36.24	131.015	
4,700.00	4,259.77	3,242.87	3,143.62	34.71	16.88	27.99	1,322.31	5,961.01	4,718.72	4,681.41	37.31	126.485	
4,800.00	4,343.47	3,333.02	3,230.35	35.80	17.41	28.10	1,339.24	5,978.87	4,689.57	4,651.15	38.42	122.053	
4,900.00	4,427.17	3,397.95	3,292.70	36.89	17.79	28.18	1,351.62	5,992.05	4,660.93	4,621.50	39.44	118.187	
5,000.00	4,510.87	3,501.86	3,392.36	37.99	18.41	28.30	1,372.00	6,013.30	4,632.53	4,591.91	40.62	114.036	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	3,600.02	3,486.41	39.08	19.00	28.41	1,391.85	6,033.17	4,604.02	4,562.23	41.79	110.164	
5,200.00	4,678.26	5,200.00	3,614.94	40.18	28.38	28.56	1,418.52	6,059.87	4,575.22	4,525.03	50.19	91.159	
5,300.00	4,761.96	3,829.36	3,706.73	41.28	20.35	28.68	1,436.81	6,078.23	4,545.65	4,501.38	44.27	102.681	
5,400.00	4,845.66	3,896.56	3,771.31	42.37	20.74	28.77	1,449.71	6,091.62	4,516.73	4,471.41	45.32	99.660	
5,500.00	4,929.35	3,983.87	3,855.10	43.47	21.26	28.88	1,466.74	6,109.26	4,488.16	4,441.70	46.46	96.606	
5,600.00	5,013.05	4,126.52	3,992.34	44.57	22.09	29.08	1,493.03	6,138.00	4,459.56	4,411.75	47.82	93.266	
5,700.00	5,096.75	4,199.66	4,062.86	45.67	22.51	29.19	1,506.25	6,152.20	4,430.17	4,381.26	48.91	90.587	
5,800.00	5,180.45	4,357.34	4,214.63	46.77	23.43	29.40	1,536.15	6,182.74	4,400.97	4,350.65	50.32	87.460	
5,900.00	5,264.14	4,431.65	4,286.14	47.87	23.86	29.50	1,550.89	6,196.51	4,370.90	4,319.48	51.43	84.992	
6,000.00	5,347.84	4,540.19	4,390.62	48.97	24.49	29.64	1,572.36	6,216.64	4,340.85	4,288.18	52.67	82.422	
6,100.00	5,431.54	4,653.02	4,499.04	50.07	25.14	29.77	1,595.69	6,237.40	4,310.83	4,256.91	53.92	79.943	
6,200.00	5,515.23	4,905.05	4,742.64	51.17	26.55	30.10	1,646.05	6,277.76	4,278.11	4,222.48	55.62	76.913	
6,300.00	5,598.93	4,986.34	4,821.53	52.27	26.98	30.22	1,661.64	6,289.70	4,244.36	4,187.60	56.77	74.770	
6,400.00	5,682.63	5,265.48	5,094.44	53.38	28.35	30.72	1,708.58	6,324.09	4,207.31	4,148.91	58.41	72.033	
6,500.00	5,766.33	5,350.08	5,177.96	54.48	28.71	30.95	1,718.02	6,333.57	4,169.70	4,110.16	59.55	70.023	
6,600.00	5,850.02	6,008.80	5,834.32	55.58	30.73	33.52	1,746.37	6,362.20	4,122.11	4,060.91	61.19	67.363	
6,700.00	5,933.72	6,105.95	5,931.46	56.68	30.94	33.98	1,746.79	6,360.41	4,072.68	4,010.40	62.29	65.384	
6,800.00	6,017.42	6,190.25	6,015.73	57.79	31.13	34.40	1,747.18	6,358.69	4,023.27	3,959.86	63.40	63.454	
6,900.00	6,101.12	6,269.57	6,095.04	58.89	31.31	34.80	1,747.47	6,357.10	3,974.04	3,909.50	64.54	61.577	
7,000.00	6,184.81	6,357.98	6,183.43	59.99	31.50	35.26	1,747.48	6,355.36	3,925.02	3,859.34	65.68	59.756	
7,100.00	6,268.51	6,438.28	6,263.72	61.10	31.68	35.70	1,746.93	6,353.68	3,876.08	3,809.23	66.85	57.979	
7,200.00	6,352.21	6,507.08	6,332.50	62.20	31.83	36.08	1,746.28	6,352.41	3,827.54	3,759.49	68.05	56.247	
7,300.00	6,435.90	6,569.32	6,394.73	63.31	31.97	36.43	1,746.07	6,351.56	3,779.61	3,710.35	69.26	54.568	
7,400.00	6,519.60	6,652.27	6,477.68	64.41	32.17	36.90	1,746.31	6,350.67	3,732.17	3,661.68	70.49	52.946	
7,500.00	6,603.30	6,727.22	6,552.63	65.51	32.35	37.32	1,746.66	6,349.90	3,684.98	3,613.24	71.74	51.365	
7,600.00	6,687.00	6,799.47	6,624.87	66.62	32.53	37.74	1,747.01	6,349.38	3,638.27	3,565.26	73.01	49.830	
7,700.00	6,770.69	6,873.05	6,698.45	67.72	32.71	38.18	1,747.15	6,349.06	3,592.04	3,517.74	74.31	48.340	
7,800.00	6,854.39	6,948.09	6,773.49	68.83	32.89	38.65	1,747.04	6,348.92	3,546.28	3,470.66	75.62	46.895	
7,900.00	6,938.09	7,027.01	6,852.41	69.93	33.08	39.15	1,746.67	6,348.92	3,500.94	3,423.98	76.96	45.492	
7,933.18	6,965.86	7,053.38	6,878.78	70.30	33.15	39.32	1,746.49	6,348.94	3,485.98	3,408.57	77.40	45.036	
7,950.00	6,980.00	7,066.97	6,892.37	70.49	33.18	36.25	1,746.39	6,348.96	3,478.37	3,400.74	77.63	44.809	
8,000.00	7,022.68	7,107.98	6,933.38	71.01	33.28	26.33	1,746.01	6,349.01	3,455.37	3,377.15	78.22	44.177	
8,050.00	7,066.06	7,149.46	6,974.85	71.51	33.37	15.40	1,745.54	6,349.08	3,431.91	3,353.21	78.70	43.610	
8,100.00	7,109.82	7,190.44	7,015.83	71.97	33.47	3.78	1,745.03	6,349.18	3,408.14	3,329.08	79.06	43.110	
8,150.00	7,153.63	7,231.55	7,056.94	72.38	33.57	-8.01	1,744.49	6,349.31	3,384.24	3,304.95	79.29	42.681	
8,200.00	7,197.14	7,279.61	7,104.99	72.74	33.69	-19.45	1,743.87	6,349.45	3,360.34	3,280.94	79.40	42.322	
8,250.00	7,240.04	7,327.39	7,152.77	73.05	33.80	-30.15	1,743.34	6,349.53	3,336.60	3,257.22	79.38	42.034	
8,300.00	7,281.99	7,369.87	7,195.24	73.31	33.91	-39.84	1,742.86	6,349.56	3,313.25	3,234.02	79.23	41.816	
8,350.00	7,322.67	7,411.11	7,236.48	73.52	34.01	-48.47	1,742.33	6,349.59	3,290.56	3,211.59	78.97	41.668	
8,400.00	7,361.77	7,448.41	7,273.77	73.68	34.10	-56.03	1,741.79	6,349.62	3,268.78	3,190.18	78.59	41.590	
8,450.00	7,399.01	7,483.32	7,308.68	73.78	34.18	-62.61	1,741.22	6,349.68	3,248.17	3,170.06	78.11	41.582	SF
8,500.00	7,434.08	7,516.41	7,341.77	73.85	34.26	-68.32	1,740.62	6,349.76	3,228.98	3,151.44	77.54	41.645	
8,550.00	7,466.74	7,546.14	7,371.49	73.87	34.33	-73.22	1,740.06	6,349.87	3,211.45	3,134.58	76.88	41.775	
8,600.00	7,496.72	7,573.60	7,398.95	73.85	34.40	-77.39	1,739.55	6,349.99	3,195.83	3,119.69	76.14	41.972	
8,650.00	7,523.80	7,598.51	7,423.86	73.79	34.46	-80.89	1,739.09	6,350.13	3,182.33	3,106.98	75.35	42.234	
8,700.00	7,547.77	7,621.25	7,446.59	73.70	34.52	-83.79	1,738.68	6,350.27	3,171.15	3,096.63	74.52	42.557	
8,750.00	7,568.45	7,641.37	7,466.70	73.58	34.57	-86.11	1,738.32	6,350.41	3,162.45	3,088.80	73.65	42.936	
8,800.00	7,585.69	7,658.28	7,483.61	73.43	34.61	-87.88	1,738.02	6,350.53	3,156.40	3,083.62	72.79	43.366	
8,850.00	7,599.35	7,671.85	7,497.18	73.26	34.64	-89.12	1,737.78	6,350.63	3,153.11	3,081.19	71.92	43.840	
8,882.89	7,606.33	7,678.92	7,504.24	73.13	34.66	-89.65	1,737.66	6,350.69	3,152.49	3,081.12	71.37	44.170	CC, ES
8,900.00	7,609.33	7,681.99	7,507.32	73.07	34.67	-89.84	1,737.61	6,350.71	3,152.66	3,081.58	71.09	44.350	
8,950.00	7,615.55	7,688.62	7,513.95	72.87	34.69	-90.05	1,737.49	6,350.76	3,155.09	3,084.80	70.29	44.888	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	7,691.69	7,517.02	72.65	34.69	-89.75	1,737.44	6,350.79	3,160.40	3,090.86	69.54	45.448	
9,006.60	7,618.00	7,691.83	7,517.16	72.62	34.69	-89.67	1,737.43	6,350.79	3,161.31	3,091.87	69.45	45.523	
9,100.00	7,618.00	7,693.34	7,518.66	72.22	34.70	-89.70	1,737.41	6,350.80	3,175.94	3,107.70	68.24	46.543	
9,200.00	7,618.00	7,694.95	7,520.28	71.80	34.70	-89.73	1,737.38	6,350.81	3,194.55	3,127.33	67.22	47.523	
9,300.00	7,618.00	7,696.56	7,521.89	71.41	34.71	-89.76	1,737.35	6,350.83	3,216.17	3,149.66	66.51	48.360	
9,400.00	7,618.00	7,698.17	7,523.49	71.04	34.71	-89.79	1,737.32	6,350.84	3,240.72	3,174.63	66.09	49.032	
9,500.00	7,618.00	7,699.77	7,525.10	70.68	34.71	-89.82	1,737.30	6,350.85	3,268.15	3,202.17	65.98	49.532	
9,600.00	7,618.00	7,701.37	7,526.70	70.35	34.72	-89.85	1,737.27	6,350.87	3,298.39	3,232.24	66.15	49.862	
9,700.00	7,618.00	7,702.97	7,528.30	70.04	34.72	-89.88	1,737.24	6,350.88	3,331.36	3,264.78	66.58	50.036	
9,800.00	7,618.00	7,704.57	7,529.89	69.75	34.73	-89.91	1,737.21	6,350.89	3,366.97	3,299.73	67.24	50.075	
9,900.00	7,618.00	7,706.16	7,531.49	69.47	34.73	-89.94	1,737.19	6,350.91	3,405.14	3,337.05	68.10	50.003	
10,000.00	7,618.00	7,706.77	7,532.09	69.22	34.73	-89.95	1,737.18	6,350.91	3,445.80	3,376.67	69.13	49.846	
10,100.00	7,618.00	7,708.08	7,533.41	68.99	34.74	-89.97	1,737.15	6,350.92	3,488.85	3,418.56	70.29	49.633	
10,200.00	7,618.00	7,709.39	7,534.72	68.78	34.74	-89.99	1,737.13	6,350.94	3,534.20	3,462.64	71.57	49.383	
10,300.00	7,618.00	7,710.70	7,536.02	68.59	34.74	-90.02	1,737.11	6,350.95	3,581.77	3,508.85	72.92	49.117	
10,400.00	7,618.00	7,712.00	7,537.32	68.42	34.75	-90.04	1,737.09	6,350.96	3,631.48	3,557.14	74.34	48.849	
10,500.00	7,618.00	7,713.29	7,538.62	68.28	34.75	-90.07	1,737.06	6,350.97	3,683.22	3,607.42	75.80	48.591	
10,600.00	7,618.00	7,714.59	7,539.91	68.16	34.75	-90.09	1,737.04	6,350.98	3,736.93	3,659.64	77.29	48.352	
10,700.00	7,618.00	7,715.88	7,541.20	68.06	34.76	-90.11	1,737.02	6,351.00	3,792.51	3,713.73	78.78	48.138	
10,800.00	7,618.00	7,717.16	7,542.48	67.99	34.76	-90.14	1,737.00	6,351.01	3,849.89	3,769.60	80.28	47.953	
10,900.00	7,618.00	7,718.44	7,543.76	67.95	34.76	-90.16	1,736.98	6,351.02	3,908.98	3,827.20	81.78	47.800	
11,000.00	7,618.00	7,719.72	7,545.04	67.95	34.77	-90.18	1,736.95	6,351.03	3,969.71	3,886.45	83.26	47.681	
11,100.00	7,618.00	7,720.99	7,546.31	67.97	34.77	-90.21	1,736.93	6,351.05	4,032.01	3,947.29	84.71	47.595	
11,200.00	7,618.00	7,722.26	7,547.58	68.04	34.77	-90.23	1,736.91	6,351.06	4,095.80	4,009.65	86.15	47.544	
11,300.00	7,618.00	7,723.53	7,548.85	68.15	34.77	-90.25	1,736.89	6,351.07	4,161.01	4,073.46	87.55	47.526	
11,400.00	7,618.00	7,724.79	7,550.11	68.30	34.78	-90.28	1,736.87	6,351.09	4,227.59	4,138.66	88.93	47.541	
11,500.00	7,618.00	7,726.05	7,551.37	68.50	34.78	-90.30	1,736.85	6,351.10	4,295.46	4,205.19	90.27	47.587	
11,600.00	7,618.00	7,727.30	7,552.62	68.75	34.78	-90.32	1,736.83	6,351.11	4,364.57	4,272.99	91.57	47.663	
11,700.00	7,618.00	7,728.55	7,553.87	69.06	34.79	-90.35	1,736.81	6,351.13	4,434.85	4,342.01	92.84	47.768	
11,800.00	7,618.00	7,729.80	7,555.11	69.44	34.79	-90.37	1,736.78	6,351.14	4,506.26	4,412.18	94.08	47.900	
11,900.00	7,618.00	7,731.04	7,556.36	69.88	34.79	-90.39	1,736.76	6,351.15	4,578.73	4,483.46	95.27	48.058	
12,000.00	7,618.00	7,732.28	7,557.60	70.39	34.80	-90.41	1,736.74	6,351.17	4,652.23	4,555.79	96.44	48.241	
12,100.00	7,618.00	7,733.51	7,558.83	70.97	34.80	-90.44	1,736.72	6,351.18	4,726.70	4,629.14	97.56	48.447	
12,200.00	7,618.00	7,734.74	7,560.06	71.63	34.80	-90.46	1,736.70	6,351.19	4,802.10	4,703.44	98.65	48.676	
12,300.00	7,618.00	7,735.97	7,561.29	72.35	34.81	-90.48	1,736.68	6,351.21	4,878.38	4,778.66	99.71	48.925	
12,400.00	7,618.00	7,737.20	7,562.51	73.15	34.81	-90.50	1,736.66	6,351.22	4,955.50	4,854.77	100.74	49.193	
12,500.00	7,618.00	7,738.42	7,563.73	74.01	34.81	-90.53	1,736.64	6,351.24	5,033.43	4,931.70	101.73	49.481	
12,600.00	7,618.00	7,739.63	7,564.95	74.93	34.82	-90.55	1,736.62	6,351.25	5,112.13	5,009.44	102.68	49.785	
12,700.00	7,618.00	7,740.85	7,566.16	75.91	34.82	-90.57	1,736.60	6,351.26	5,191.56	5,087.94	103.61	50.106	
12,800.00	7,618.00	7,742.06	7,567.37	76.95	34.82	-90.59	1,736.58	6,351.28	5,271.68	5,167.18	104.51	50.443	
12,900.00	7,618.00	7,743.26	7,568.58	78.04	34.83	-90.61	1,736.56	6,351.29	5,352.48	5,247.11	105.37	50.795	
13,000.00	7,618.00	7,744.46	7,569.78	79.16	34.83	-90.64	1,736.54	6,351.31	5,433.92	5,327.70	106.21	51.160	
13,100.00	7,618.00	7,745.66	7,570.98	80.33	34.83	-90.66	1,736.52	6,351.32	5,515.97	5,408.94	107.03	51.539	
13,200.00	7,618.00	7,746.86	7,572.17	81.54	34.83	-90.68	1,736.50	6,351.34	5,598.60	5,490.78	107.81	51.929	
13,300.00	7,618.00	7,748.05	7,573.37	82.78	34.84	-90.70	1,736.48	6,351.35	5,681.78	5,573.21	108.57	52.332	
13,400.00	7,618.00	7,749.24	7,574.55	84.05	34.84	-90.72	1,736.46	6,351.37	5,765.51	5,656.20	109.31	52.746	
13,500.00	7,618.00	7,750.42	7,575.74	85.35	34.84	-90.75	1,736.44	6,351.38	5,849.74	5,739.72	110.02	53.170	
13,600.00	7,618.00	7,751.61	7,576.92	86.67	34.85	-90.77	1,736.42	6,351.40	5,934.46	5,823.75	110.71	53.604	
13,700.00	7,618.00	7,752.78	7,578.10	88.02	34.85	-90.79	1,736.41	6,351.41	6,019.65	5,908.27	111.38	54.048	
13,800.00	7,618.00	7,753.96	7,579.27	89.38	34.85	-90.81	1,736.39	6,351.43	6,105.29	5,993.27	112.02	54.500	
13,900.00	7,618.00	7,755.13	7,580.44	90.77	34.86	-90.83	1,736.37	6,351.44	6,191.36	6,078.71	112.65	54.961	
14,000.00	7,618.00	7,756.30	7,581.61	92.17	34.86	-90.85	1,736.35	6,351.46	6,277.84	6,164.58	113.26	55.430	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,618.00	7,757.46	7,582.77	93.59	34.86	-90.87	1,736.33	6,351.47	6,364.72	6,250.87	113.85	55.906	
14,200.00	7,618.00	7,758.62	7,583.93	95.02	34.86	-90.90	1,736.31	6,351.49	6,451.98	6,337.56	114.42	56.390	
14,300.00	7,618.00	7,759.78	7,585.09	96.47	34.87	-90.92	1,736.29	6,351.50	6,539.60	6,424.63	114.97	56.881	
14,400.00	7,618.00	7,760.93	7,586.25	97.93	34.87	-90.94	1,736.27	6,351.52	6,627.57	6,512.07	115.51	57.378	
14,500.00	7,618.00	7,762.08	7,587.40	99.41	34.87	-90.96	1,736.26	6,351.53	6,715.88	6,599.85	116.03	57.882	
14,600.00	7,618.00	7,763.23	7,588.54	100.89	34.88	-90.98	1,736.24	6,351.55	6,804.51	6,687.98	116.53	58.391	
14,700.00	7,618.00	7,764.38	7,589.69	102.38	34.88	-91.00	1,736.22	6,351.57	6,893.46	6,776.43	117.02	58.906	
14,800.00	7,618.00	7,765.52	7,590.83	103.89	34.88	-91.02	1,736.20	6,351.58	6,982.70	6,865.20	117.50	59.427	
14,900.00	7,618.00	7,766.65	7,591.96	105.40	34.88	-91.04	1,736.18	6,351.60	7,072.23	6,954.26	117.96	59.952	
15,000.00	7,618.00	7,767.79	7,593.10	106.92	34.89	-91.06	1,736.16	6,351.61	7,162.04	7,043.62	118.41	60.483	
15,100.00	7,618.00	7,768.92	7,594.23	108.45	34.89	-91.08	1,736.15	6,351.63	7,252.11	7,133.26	118.85	61.018	
15,200.00	7,618.00	7,770.05	7,595.36	109.99	34.89	-91.10	1,736.13	6,351.65	7,342.44	7,223.16	119.28	61.557	
15,300.00	7,618.00	7,771.17	7,596.48	111.54	34.90	-91.13	1,736.11	6,351.66	7,433.02	7,313.32	119.69	62.101	
15,400.00	7,618.00	7,772.29	7,597.60	113.09	34.90	-91.15	1,736.09	6,351.68	7,523.83	7,403.74	120.09	62.649	
15,500.00	7,618.00	7,773.41	7,598.72	114.65	34.90	-91.17	1,736.07	6,351.69	7,614.88	7,494.39	120.49	63.201	
15,600.00	7,618.00	7,774.53	7,599.84	116.21	34.90	-91.19	1,736.06	6,351.71	7,706.14	7,585.28	120.87	63.756	
15,700.00	7,618.00	7,775.64	7,600.95	117.78	34.91	-91.21	1,736.04	6,351.73	7,797.63	7,676.38	121.24	64.315	
15,800.00	7,618.00	7,776.75	7,602.06	119.36	34.91	-91.23	1,736.02	6,351.74	7,889.31	7,767.71	121.60	64.878	
15,900.00	7,618.00	7,777.85	7,603.16	120.94	34.91	-91.25	1,736.00	6,351.76	7,981.20	7,859.24	121.96	65.443	
16,000.00	7,618.00	7,778.95	7,604.26	122.53	34.92	-91.27	1,735.99	6,351.78	8,073.28	7,950.98	122.30	66.012	
16,100.00	7,618.00	7,780.05	7,605.36	124.12	34.92	-91.29	1,735.97	6,351.79	8,165.55	8,042.91	122.64	66.584	
16,200.00	7,618.00	7,781.15	7,606.46	125.72	34.92	-91.31	1,735.95	6,351.81	8,257.99	8,135.03	122.96	67.158	
16,300.00	7,618.00	7,782.24	7,607.55	127.32	34.92	-91.33	1,735.93	6,351.83	8,350.61	8,227.33	123.28	67.736	
16,400.00	7,618.00	7,783.33	7,608.64	128.93	34.93	-91.35	1,735.92	6,351.84	8,443.40	8,319.81	123.59	68.315	
16,500.00	7,618.00	7,784.42	7,609.73	130.54	34.93	-91.37	1,735.90	6,351.86	8,536.35	8,412.45	123.90	68.898	
16,600.00	7,618.00	7,785.50	7,610.81	132.15	34.93	-91.39	1,735.88	6,351.88	8,629.46	8,505.26	124.20	69.483	
16,700.00	7,618.00	7,786.58	7,611.89	133.77	34.94	-91.41	1,735.87	6,351.89	8,722.72	8,598.23	124.49	70.070	
16,800.00	7,618.00	7,787.66	7,612.97	135.39	34.94	-91.43	1,735.85	6,351.91	8,816.13	8,691.36	124.77	70.659	
16,900.00	7,618.00	7,796.00	7,621.30	137.01	34.96	-91.58	1,735.72	6,352.05	8,909.68	8,784.63	125.05	71.247	
17,000.00	7,618.00	7,796.00	7,621.30	138.64	34.96	-91.58	1,735.72	6,352.05	9,003.37	8,878.05	125.32	71.841	
17,100.00	7,618.00	7,796.00	7,621.30	140.27	34.96	-91.58	1,735.72	6,352.05	9,097.19	8,971.60	125.59	72.437	
17,200.00	7,618.00	7,796.00	7,621.30	141.91	34.96	-91.58	1,735.72	6,352.05	9,191.14	9,065.30	125.85	73.034	
17,300.00	7,618.00	7,796.00	7,621.30	143.55	34.96	-91.58	1,735.72	6,352.05	9,285.22	9,159.12	126.10	73.634	
17,400.00	7,618.00	7,796.00	7,621.30	145.19	34.96	-91.58	1,735.72	6,352.05	9,379.43	9,253.08	126.35	74.235	
17,500.00	7,618.00	7,796.00	7,621.30	146.83	34.96	-91.58	1,735.72	6,352.05	9,473.75	9,347.15	126.59	74.838	
17,600.00	7,618.00	7,796.65	7,621.96	148.48	34.96	-91.59	1,735.71	6,352.06	9,568.18	9,441.35	126.83	75.442	
17,700.00	7,618.00	7,800.63	7,625.93	150.13	34.97	-91.66	1,735.65	6,352.12	9,662.73	9,535.66	127.07	76.045	
17,800.00	7,618.00	7,804.73	7,630.03	151.78	34.98	-91.74	1,735.58	6,352.19	9,757.38	9,630.09	127.30	76.650	
17,900.00	7,618.00	7,808.97	7,634.27	153.43	34.99	-91.82	1,735.52	6,352.26	9,852.14	9,724.62	127.52	77.257	
18,000.00	7,618.00	7,813.36	7,638.65	155.09	35.00	-91.90	1,735.44	6,352.33	9,947.01	9,819.26	127.75	77.864	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	81.98	765.24	5,431.04	5,485.30				
100.00	100.00	36.52	36.52	0.13	0.05	81.98	765.27	5,430.98	5,484.66	5,484.48	0.18	N/A	
200.00	200.00	138.00	138.00	0.49	0.39	81.98	765.42	5,430.40	5,484.12	5,483.24	0.88	6,233.466	
269.10	269.10	187.11	187.10	0.74	0.56	81.98	765.17	5,430.27	5,483.91	5,482.62	1.30	4,225.242	
300.00	300.00	204.68	204.67	0.85	0.62	81.98	764.94	5,430.32	5,483.95	5,482.48	1.47	3,731.472	
400.00	400.00	229.00	228.99	1.21	0.70	81.99	764.50	5,430.49	5,484.76	5,482.84	1.91	2,865.928	
500.00	500.00	274.29	274.26	1.57	0.86	82.00	763.37	5,431.38	5,486.64	5,484.21	2.43	2,257.158	
600.00	600.00	320.00	319.90	1.93	1.02	82.02	761.84	5,433.27	5,490.00	5,487.06	2.95	1,863.051	
700.00	700.00	320.00	319.90	2.29	1.02	82.02	761.84	5,433.27	5,494.52	5,491.21	3.31	1,661.914	
800.00	800.00	368.41	368.18	2.64	1.20	82.04	759.73	5,436.27	5,500.23	5,496.39	3.84	1,433.427	
900.00	900.00	411.00	410.56	3.00	1.36	82.07	757.38	5,439.64	5,507.20	5,502.86	4.35	1,267.355	
1,000.00	999.98	440.24	439.62	3.36	1.47	24.85	755.51	5,442.33	5,513.73	5,508.92	4.80	1,147.724	
1,100.00	1,099.84	502.00	500.85	3.71	1.70	24.89	750.87	5,448.91	5,518.34	5,512.96	5.38	1,025.528	
1,200.00	1,199.45	502.00	500.85	4.07	1.70	24.87	750.87	5,448.91	5,520.72	5,514.99	5.73	964.146	
1,300.00	1,298.70	546.43	544.78	4.44	1.88	24.93	747.24	5,454.45	5,521.18	5,514.93	6.25	883.742	
1,400.00	1,397.47	593.00	590.73	4.82	2.08	25.03	743.51	5,461.06	5,519.83	5,513.05	6.78	813.954	
1,500.00	1,495.62	593.00	590.73	5.22	2.08	25.05	743.51	5,461.06	5,516.51	5,509.38	7.14	773.068	
1,600.00	1,593.06	643.98	640.88	5.65	2.30	25.20	739.42	5,469.20	5,511.15	5,503.45	7.70	715.354	
1,700.00	1,689.64	684.00	680.14	6.11	2.48	25.35	736.12	5,476.24	5,503.96	5,495.72	8.24	668.265	
1,800.00	1,785.27	717.48	712.93	6.61	2.64	25.51	733.52	5,482.48	5,494.76	5,486.01	8.75	627.771	
1,900.00	1,879.82	776.00	770.21	7.15	2.91	25.75	729.86	5,493.91	5,483.56	5,474.17	9.39	584.268	
2,000.00	1,973.17	807.36	800.86	7.73	3.06	25.95	728.17	5,500.30	5,470.15	5,460.23	9.92	551.370	
2,100.00	2,065.21	870.00	861.98	8.37	3.36	26.26	724.58	5,513.56	5,454.62	5,444.02	10.60	514.488	
2,200.00	2,155.84	930.06	920.50	9.07	3.66	26.59	721.18	5,526.63	5,436.72	5,425.42	11.30	481.213	
2,300.00	2,244.94	1,023.62	1,011.68	9.82	4.13	27.07	716.55	5,547.09	5,416.12	5,403.97	12.15	445.876	
2,400.00	2,332.39	1,122.37	1,107.98	10.64	4.63	27.60	712.25	5,568.52	5,392.52	5,379.47	13.05	413.321	
2,500.00	2,418.11	1,212.76	1,196.14	11.53	5.09	28.17	708.28	5,588.10	5,366.04	5,352.10	13.94	384.982	
2,558.91	2,467.74	1,258.64	1,240.85	12.08	5.33	28.50	705.81	5,598.09	5,349.17	5,334.72	14.45	370.225	
2,600.00	2,502.13	1,283.80	1,265.34	12.47	5.46	28.60	704.29	5,603.64	5,337.16	5,322.38	14.78	361.089	
2,700.00	2,585.83	1,346.80	1,326.57	13.45	5.79	28.85	699.99	5,617.80	5,308.43	5,292.82	15.61	340.082	
2,800.00	2,669.53	1,428.87	1,406.26	14.44	6.23	29.18	693.98	5,636.51	5,280.19	5,263.65	16.54	319.172	
2,900.00	2,753.22	1,489.33	1,464.91	15.46	6.56	29.42	689.63	5,650.49	5,252.48	5,235.08	17.40	301.874	
3,000.00	2,836.92	1,548.91	1,522.66	16.48	6.89	29.67	685.50	5,664.59	5,225.52	5,207.25	18.27	286.051	
3,100.00	2,920.62	1,608.55	1,580.36	17.52	7.23	29.91	681.26	5,679.05	5,199.30	5,180.15	19.15	271.486	
3,200.00	3,004.32	1,756.48	1,723.63	18.56	8.05	30.52	670.95	5,714.39	5,172.94	5,152.50	20.44	253.069	
3,300.00	3,088.01	1,842.16	1,806.73	19.61	8.52	30.88	665.31	5,734.49	5,146.48	5,125.01	21.46	239.767	
3,400.00	3,171.71	1,946.77	1,908.22	20.67	9.10	31.31	658.99	5,759.05	5,120.29	5,097.71	22.58	226.757	
3,500.00	3,255.41	2,054.17	2,012.63	21.73	9.68	31.74	653.70	5,783.68	5,093.81	5,070.09	23.71	214.802	
3,600.00	3,339.10	2,147.84	2,103.71	22.80	10.18	32.12	649.32	5,805.10	5,067.50	5,042.70	24.80	204.348	
3,700.00	3,422.80	2,232.46	2,185.96	23.87	10.64	32.47	644.70	5,824.42	5,041.39	5,015.53	25.86	194.947	
3,800.00	3,506.50	2,326.50	2,277.25	24.94	11.16	32.88	638.07	5,846.01	5,015.64	4,988.66	26.98	185.893	
3,900.00	3,590.20	2,447.16	2,394.50	26.02	11.82	33.42	629.59	5,873.23	4,989.79	4,961.56	28.23	176.738	
4,000.00	3,673.89	2,504.96	2,450.66	27.10	12.14	33.68	625.37	5,886.20	4,964.11	4,934.90	29.22	169.900	
4,100.00	3,757.59	2,555.00	2,499.20	28.18	12.41	33.90	621.77	5,897.83	4,939.42	4,909.24	30.18	163.679	
4,200.00	3,841.29	2,835.00	2,771.74	29.26	13.92	35.14	605.11	5,959.71	4,914.49	4,882.35	32.14	152.901	
4,300.00	3,924.99	2,871.29	2,807.21	30.35	14.11	35.31	603.03	5,967.07	4,887.63	4,854.57	33.07	147.811	
4,400.00	4,008.68	2,928.00	2,862.38	31.44	14.41	35.57	599.04	5,979.56	4,862.34	4,828.25	34.09	142.636	
4,500.00	4,092.38	2,940.33	2,874.34	32.52	14.48	35.63	598.10	5,982.40	4,838.00	4,803.07	34.92	138.533	
4,600.00	4,176.08	3,033.23	2,964.52	33.62	14.99	36.06	592.14	6,003.91	4,814.54	4,778.41	36.13	133.270	
4,700.00	4,259.77	3,136.27	3,064.64	34.71	15.56	36.53	586.64	6,027.63	4,791.17	4,753.79	37.38	128.178	
4,800.00	4,343.47	3,244.05	3,169.38	35.80	16.15	37.03	580.17	6,052.20	4,767.93	4,729.26	38.67	123.308	
4,900.00	4,427.17	3,347.50	3,270.09	36.89	16.70	37.51	574.33	6,075.16	4,744.34	4,704.39	39.94	118.775	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,510.87	3,415.24	3,335.99	37.99	17.07	37.83	571.00	6,090.44	4,721.33	4,680.26	41.07	114.958	
5,100.00	4,594.56	3,482.73	3,401.57	39.08	17.44	38.14	567.24	6,105.94	4,699.05	4,656.84	42.21	111.334	
5,200.00	4,678.26	3,563.31	3,479.76	40.18	17.89	38.54	561.67	6,124.61	4,677.38	4,633.96	43.42	107.720	
5,300.00	4,761.96	3,712.65	3,624.80	41.28	18.71	39.29	550.64	6,158.46	4,655.68	4,610.71	44.97	103.523	
5,400.00	4,845.66	3,873.25	3,781.37	42.37	19.56	40.09	540.62	6,192.74	4,632.92	4,586.35	46.57	99.488	
5,500.00	4,929.35	3,959.95	3,866.06	43.47	20.01	40.51	536.73	6,210.85	4,609.83	4,562.00	47.83	96.379	
5,600.00	5,013.05	4,029.87	3,934.35	44.57	20.37	40.84	533.80	6,225.63	4,587.22	4,538.19	49.03	93.559	
5,700.00	5,096.75	4,100.68	4,003.41	45.67	20.75	41.19	530.19	6,240.80	4,565.30	4,515.06	50.25	90.856	
5,800.00	5,180.45	5,220.32	5,113.07	46.77	25.06	47.03	501.23	6,360.30	4,533.47	4,478.83	54.63	82.979	
5,900.00	5,264.14	5,307.59	5,200.33	47.87	25.27	47.51	501.68	6,360.05	4,492.55	4,436.68	55.87	80.416	
6,000.00	5,347.84	5,401.68	5,294.42	48.97	25.50	48.04	502.54	6,359.75	4,451.84	4,394.72	57.12	77.938	
6,100.00	5,431.54	5,498.43	5,391.16	50.07	25.73	48.58	503.66	6,359.12	4,411.11	4,352.72	58.39	75.545	
6,200.00	5,515.23	5,584.25	5,476.98	51.17	25.94	49.08	504.66	6,358.46	4,370.60	4,310.94	59.66	73.255	
6,300.00	5,598.93	5,673.77	5,566.49	52.27	26.16	49.60	505.64	6,357.70	4,330.35	4,269.39	60.96	71.041	
6,400.00	5,682.63	5,771.23	5,663.94	53.38	26.39	50.19	506.35	6,356.54	4,290.21	4,227.94	62.27	68.894	
6,500.00	5,766.33	5,870.69	5,763.38	54.48	26.63	50.80	507.05	6,355.00	4,250.11	4,186.51	63.61	66.819	
6,600.00	5,850.02	5,966.39	5,859.06	55.58	26.86	51.40	507.70	6,353.15	4,210.06	4,145.11	64.95	64.818	
6,700.00	5,933.72	6,051.09	5,943.74	56.68	27.06	51.94	508.21	6,351.34	4,170.21	4,103.91	66.31	62.894	
6,800.00	6,017.42	6,127.75	6,020.38	57.79	27.25	52.43	508.71	6,349.78	4,130.82	4,063.15	67.67	61.044	
6,900.00	6,101.12	6,204.29	6,096.91	58.89	27.43	52.94	509.02	6,348.29	4,091.94	4,022.89	69.05	59.259	
7,000.00	6,184.81	6,290.97	6,183.56	59.99	27.65	53.52	509.08	6,346.57	4,053.49	3,983.02	70.46	57.526	
7,100.00	6,268.51	6,354.48	6,247.07	61.10	27.81	53.96	508.98	6,345.36	4,015.58	3,943.71	71.87	55.870	
7,200.00	6,352.21	6,410.48	6,303.06	62.20	27.95	54.35	508.77	6,344.58	3,978.58	3,905.28	73.30	54.282	
7,300.00	6,435.90	6,457.66	6,350.24	63.31	28.08	54.68	508.58	6,344.34	3,942.71	3,867.98	74.72	52.764	
7,400.00	6,519.60	6,506.24	6,398.82	64.41	28.22	55.02	508.39	6,344.57	3,908.05	3,831.88	76.17	51.309	
7,500.00	6,603.30	6,556.81	6,449.38	65.51	28.37	55.37	508.13	6,345.24	3,874.58	3,796.95	77.63	49.911	
7,600.00	6,687.00	6,688.92	6,581.48	66.62	28.76	56.32	507.32	6,347.13	3,841.85	3,762.61	79.24	48.483	
7,700.00	6,770.69	6,773.30	6,665.85	67.72	29.01	56.93	506.87	6,347.62	3,808.73	3,727.94	80.79	47.144	
7,800.00	6,854.39	6,870.10	6,762.65	68.83	29.28	57.65	506.27	6,347.84	3,775.88	3,693.51	82.37	45.840	
7,900.00	6,938.09	6,952.72	6,845.27	69.93	29.51	58.28	505.70	6,347.88	3,743.41	3,659.47	83.95	44.593	
7,933.18	6,965.86	6,975.77	6,868.32	70.30	29.58	58.45	505.53	6,347.90	3,732.77	3,648.31	84.47	44.192	
7,950.00	6,980.00	6,987.19	6,879.74	70.49	29.61	55.72	505.44	6,347.92	3,727.30	3,642.57	84.73	43.993	
8,000.00	7,022.68	7,021.70	6,914.25	71.01	29.71	46.75	505.13	6,348.02	3,709.83	3,624.39	85.44	43.420	
8,050.00	7,066.06	7,059.19	6,951.74	71.51	29.82	36.67	504.73	6,348.20	3,690.62	3,604.55	86.07	42.879	
8,100.00	7,109.82	7,106.74	6,999.28	71.97	29.96	25.81	504.22	6,348.42	3,669.69	3,583.07	86.62	42.365	
8,150.00	7,153.63	7,154.35	7,046.89	72.38	30.10	14.57	503.75	6,348.60	3,647.11	3,560.04	87.06	41.890	
8,200.00	7,197.14	7,194.49	7,087.03	72.74	30.21	3.44	503.33	6,348.76	3,623.07	3,535.68	87.39	41.458	
8,250.00	7,240.04	7,235.51	7,128.04	73.05	30.33	-7.17	502.88	6,348.93	3,597.77	3,510.16	87.61	41.066	
8,300.00	7,281.99	7,284.11	7,176.64	73.31	30.48	-17.08	502.29	6,349.08	3,571.35	3,483.62	87.73	40.709	
8,350.00	7,322.67	7,331.34	7,223.86	73.52	30.61	-26.26	501.66	6,349.12	3,543.97	3,456.23	87.74	40.393	
8,400.00	7,361.77	7,370.43	7,262.95	73.68	30.73	-34.70	501.13	6,349.11	3,515.92	3,428.29	87.63	40.123	
8,450.00	7,399.01	7,407.87	7,300.39	73.78	30.83	-42.47	500.65	6,349.11	3,487.49	3,400.08	87.41	39.897	
8,500.00	7,434.08	7,443.18	7,335.69	73.85	30.94	-49.63	500.22	6,349.12	3,458.96	3,371.87	87.09	39.716	
8,550.00	7,466.74	7,476.08	7,368.59	73.87	31.03	-56.21	499.84	6,349.15	3,430.60	3,343.93	86.67	39.582	
8,600.00	7,496.72	7,506.32	7,398.83	73.85	31.12	-62.21	499.51	6,349.18	3,402.73	3,316.57	86.16	39.495	
8,650.00	7,523.80	7,534.89	7,427.40	73.79	31.20	-67.67	499.22	6,349.21	3,375.62	3,290.07	85.56	39.455	SF
8,700.00	7,547.77	7,560.86	7,453.37	73.70	31.28	-72.56	498.98	6,349.23	3,349.59	3,264.72	84.87	39.466	
8,750.00	7,568.45	7,583.26	7,475.77	73.58	31.34	-76.87	498.79	6,349.25	3,324.92	3,240.80	84.12	39.526	
8,800.00	7,585.69	7,601.95	7,494.45	73.43	31.40	-80.59	498.65	6,349.26	3,301.90	3,218.60	83.30	39.636	
8,850.00	7,599.35	7,616.78	7,509.28	73.26	31.44	-83.72	498.55	6,349.27	3,280.82	3,198.38	82.44	39.797	
8,900.00	7,609.33	7,624.21	7,516.72	73.07	31.46	-86.22	498.50	6,349.28	3,261.91	3,180.38	81.53	40.008	
8,950.00	7,615.55	7,629.79	7,522.30	72.87	31.48	-88.20	498.46	6,349.29	3,245.41	3,164.81	80.60	40.266	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	7,632.14	7,524.64	72.65	31.49	-89.64	498.44	6,349.30	3,231.48	3,151.83	79.65	40.571	
9,006.60	7,618.00	7,632.20	7,524.71	72.62	31.49	-89.79	498.44	6,349.30	3,229.84	3,150.32	79.52	40.615	
9,100.00	7,618.00	7,632.74	7,525.25	72.22	31.49	-89.80	498.44	6,349.30	3,208.29	3,130.52	77.78	41.250	
9,200.00	7,618.00	7,633.32	7,525.82	71.80	31.49	-89.81	498.43	6,349.30	3,188.09	3,112.11	75.98	41.958	
9,300.00	7,618.00	7,633.89	7,526.40	71.41	31.49	-89.82	498.43	6,349.30	3,170.92	3,096.62	74.29	42.681	
9,400.00	7,618.00	7,634.47	7,526.97	71.04	31.50	-89.83	498.43	6,349.30	3,156.82	3,084.08	72.74	43.401	
9,500.00	7,618.00	7,635.04	7,527.55	70.68	31.50	-89.85	498.42	6,349.30	3,145.83	3,074.49	71.34	44.096	
9,600.00	7,618.00	7,635.61	7,528.12	70.35	31.50	-89.86	498.42	6,349.30	3,138.00	3,067.87	70.13	44.743	
9,700.00	7,618.00	7,636.19	7,528.69	70.04	31.50	-89.87	498.42	6,349.30	3,133.34	3,064.19	69.15	45.315	
9,796.12	7,618.00	7,636.74	7,529.24	69.76	31.50	-89.88	498.41	6,349.30	3,131.87	3,063.44	68.43	45.770	CC, ES
9,800.00	7,618.00	7,636.76	7,529.26	69.75	31.50	-89.88	498.41	6,349.30	3,131.87	3,063.47	68.40	45.787	
9,900.00	7,618.00	7,637.33	7,529.83	69.47	31.50	-89.89	498.41	6,349.31	3,133.59	3,065.67	67.92	46.138	
10,000.00	7,618.00	7,637.90	7,530.40	69.22	31.51	-89.90	498.40	6,349.31	3,138.50	3,070.78	67.71	46.351	
10,100.00	7,618.00	7,638.47	7,530.97	68.99	31.51	-89.91	498.40	6,349.31	3,146.57	3,078.79	67.78	46.420	
10,200.00	7,618.00	7,639.04	7,531.54	68.78	31.51	-89.92	498.40	6,349.31	3,157.80	3,089.67	68.13	46.347	
10,300.00	7,618.00	7,639.61	7,532.11	68.59	31.51	-89.93	498.39	6,349.31	3,172.14	3,103.39	68.75	46.142	
10,400.00	7,618.00	7,640.17	7,532.68	68.42	31.51	-89.94	498.39	6,349.31	3,189.55	3,119.95	69.60	45.824	
10,500.00	7,618.00	7,640.74	7,533.24	68.28	31.51	-89.95	498.38	6,349.31	3,209.99	3,139.31	70.68	45.416	
10,600.00	7,618.00	7,641.30	7,533.81	68.16	31.52	-89.96	498.38	6,349.32	3,233.39	3,161.44	71.94	44.943	
10,700.00	7,618.00	7,641.87	7,534.38	68.06	31.52	-89.97	498.38	6,349.32	3,259.69	3,186.32	73.37	44.429	
10,800.00	7,618.00	7,642.43	7,534.94	67.99	31.52	-89.98	498.37	6,349.32	3,288.82	3,213.89	74.92	43.895	
10,900.00	7,618.00	7,643.00	7,535.50	67.95	31.52	-89.99	498.37	6,349.32	3,320.71	3,244.13	76.58	43.362	
11,000.00	7,618.00	7,643.56	7,536.07	67.95	31.52	-90.00	498.37	6,349.32	3,355.27	3,276.96	78.32	42.843	
11,100.00	7,618.00	7,644.12	7,536.63	67.97	31.52	-90.01	498.36	6,349.32	3,392.44	3,312.33	80.10	42.351	
11,200.00	7,618.00	7,644.68	7,537.19	68.04	31.53	-90.02	498.36	6,349.32	3,432.11	3,350.19	81.92	41.895	
11,300.00	7,618.00	7,645.25	7,537.75	68.15	31.53	-90.03	498.35	6,349.33	3,474.21	3,390.46	83.76	41.479	
11,400.00	7,618.00	7,645.81	7,538.31	68.30	31.53	-90.04	498.35	6,349.33	3,518.65	3,433.06	85.59	41.108	
11,500.00	7,618.00	7,646.37	7,538.87	68.50	31.53	-90.05	498.35	6,349.33	3,565.35	3,477.93	87.42	40.784	
11,600.00	7,618.00	7,646.92	7,539.43	68.75	31.53	-90.06	498.34	6,349.33	3,614.20	3,524.98	89.22	40.508	
11,700.00	7,618.00	7,647.48	7,539.99	69.06	31.53	-90.07	498.34	6,349.33	3,665.14	3,574.14	91.00	40.278	
11,800.00	7,618.00	7,648.04	7,540.55	69.44	31.54	-90.08	498.34	6,349.33	3,718.06	3,625.33	92.73	40.095	
11,900.00	7,618.00	7,648.60	7,541.10	69.88	31.54	-90.09	498.33	6,349.33	3,772.90	3,678.47	94.43	39.956	
12,000.00	7,618.00	7,649.15	7,541.66	70.39	31.54	-90.10	498.33	6,349.34	3,829.56	3,733.48	96.08	39.860	
12,100.00	7,618.00	7,649.71	7,542.21	70.97	31.54	-90.11	498.32	6,349.34	3,887.96	3,790.29	97.68	39.804	
12,200.00	7,618.00	7,650.26	7,542.77	71.63	31.54	-90.12	498.32	6,349.34	3,948.04	3,848.81	99.23	39.788	
12,300.00	7,618.00	7,650.82	7,543.32	72.35	31.54	-90.13	498.32	6,349.34	4,009.71	3,908.98	100.73	39.808	
12,400.00	7,618.00	7,651.37	7,543.88	73.15	31.55	-90.14	498.31	6,349.34	4,072.90	3,970.73	102.17	39.862	
12,500.00	7,618.00	7,651.92	7,544.43	74.01	31.55	-90.15	498.31	6,349.34	4,137.55	4,033.98	103.57	39.950	
12,600.00	7,618.00	7,652.47	7,544.98	74.93	31.55	-90.16	498.31	6,349.35	4,203.58	4,098.66	104.91	40.067	
12,700.00	7,618.00	7,653.03	7,545.53	75.91	31.55	-90.17	498.30	6,349.35	4,270.93	4,164.72	106.21	40.214	
12,800.00	7,618.00	7,653.58	7,546.08	76.95	31.55	-90.18	498.30	6,349.35	4,339.53	4,232.09	107.45	40.387	
12,900.00	7,618.00	7,654.13	7,546.63	78.04	31.55	-90.19	498.30	6,349.35	4,409.34	4,300.70	108.64	40.586	
13,000.00	7,618.00	7,654.68	7,547.18	79.16	31.56	-90.20	498.29	6,349.35	4,480.30	4,370.51	109.79	40.809	
13,100.00	7,618.00	7,655.22	7,547.73	80.33	31.56	-90.21	498.29	6,349.35	4,552.34	4,441.45	110.89	41.054	
13,200.00	7,618.00	7,655.77	7,548.28	81.54	31.56	-90.22	498.28	6,349.36	4,625.43	4,513.48	111.94	41.319	
13,300.00	7,618.00	7,656.32	7,548.82	82.78	31.56	-90.23	498.28	6,349.36	4,699.50	4,586.55	112.96	41.605	
13,400.00	7,618.00	7,656.87	7,549.37	84.05	31.56	-90.24	498.28	6,349.36	4,774.52	4,660.60	113.93	41.909	
13,500.00	7,618.00	7,657.41	7,549.92	85.35	31.56	-90.25	498.27	6,349.36	4,850.45	4,735.59	114.86	42.230	
13,600.00	7,618.00	7,657.96	7,550.46	86.67	31.57	-90.26	498.27	6,349.36	4,927.23	4,811.48	115.75	42.567	
13,700.00	7,618.00	7,658.50	7,551.01	88.02	31.57	-90.27	498.27	6,349.37	5,004.83	4,888.22	116.61	42.920	
13,800.00	7,618.00	7,659.04	7,551.55	89.38	31.57	-90.28	498.26	6,349.37	5,083.21	4,965.78	117.43	43.287	
13,900.00	7,618.00	7,659.59	7,552.09	90.77	31.57	-90.29	498.26	6,349.37	5,162.35	5,044.13	118.22	43.668	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,618.00	7,660.13	7,552.64	92.17	31.57	-90.30	498.26	6,349.37	5,242.19	5,123.22	118.97	44.061	
14,100.00	7,618.00	7,660.67	7,553.18	93.59	31.57	-90.31	498.25	6,349.37	5,322.72	5,203.02	119.70	44.467	
14,200.00	7,618.00	7,661.21	7,553.72	95.02	31.58	-90.32	498.25	6,349.37	5,403.89	5,283.49	120.40	44.884	
14,300.00	7,618.00	7,661.75	7,554.26	96.47	31.58	-90.33	498.24	6,349.38	5,485.69	5,364.62	121.07	45.312	
14,400.00	7,618.00	7,662.29	7,554.80	97.93	31.58	-90.34	498.24	6,349.38	5,568.08	5,446.37	121.71	45.750	
14,500.00	7,618.00	7,662.83	7,555.34	99.41	31.58	-90.35	498.24	6,349.38	5,651.04	5,528.72	122.32	46.197	
14,600.00	7,618.00	7,663.37	7,555.88	100.89	31.58	-90.36	498.23	6,349.38	5,734.55	5,611.63	122.92	46.654	
14,700.00	7,618.00	7,663.91	7,556.41	102.38	31.58	-90.37	498.23	6,349.38	5,818.57	5,695.08	123.49	47.119	
14,800.00	7,618.00	7,664.45	7,556.95	103.89	31.58	-90.38	498.23	6,349.39	5,903.09	5,779.06	124.03	47.592	
14,900.00	7,618.00	7,664.98	7,557.49	105.40	31.59	-90.39	498.22	6,349.39	5,988.09	5,863.53	124.56	48.073	
15,000.00	7,618.00	7,665.52	7,558.02	106.92	31.59	-90.40	498.22	6,349.39	6,073.55	5,948.48	125.07	48.562	
15,100.00	7,618.00	7,666.05	7,558.56	108.45	31.59	-90.41	498.22	6,349.39	6,159.44	6,033.88	125.56	49.057	
15,200.00	7,618.00	7,666.59	7,559.09	109.99	31.59	-90.42	498.21	6,349.39	6,245.75	6,119.73	126.03	49.559	
15,300.00	7,618.00	7,667.12	7,559.63	111.54	31.59	-90.43	498.21	6,349.40	6,332.47	6,205.99	126.48	50.067	
15,400.00	7,618.00	7,667.66	7,560.16	113.09	31.59	-90.44	498.21	6,349.40	6,419.57	6,292.66	126.92	50.582	
15,500.00	7,618.00	7,668.19	7,560.69	114.65	31.60	-90.45	498.20	6,349.40	6,507.05	6,379.71	127.34	51.101	
15,600.00	7,618.00	7,668.72	7,561.22	116.21	31.60	-90.46	498.20	6,349.40	6,594.88	6,467.13	127.74	51.627	
15,700.00	7,618.00	7,669.25	7,561.76	117.78	31.60	-90.47	498.20	6,349.41	6,683.05	6,554.91	128.13	52.157	
15,800.00	7,618.00	7,669.78	7,562.29	119.36	31.60	-90.48	498.19	6,349.41	6,771.55	6,643.04	128.51	52.692	
15,900.00	7,618.00	7,670.31	7,562.82	120.94	31.60	-90.49	498.19	6,349.41	6,860.36	6,731.49	128.88	53.232	
16,000.00	7,618.00	7,670.84	7,563.35	122.53	31.60	-90.50	498.19	6,349.41	6,949.48	6,820.26	129.23	53.777	
16,100.00	7,618.00	7,671.37	7,563.87	124.12	31.61	-90.51	498.18	6,349.41	7,038.90	6,909.33	129.57	54.326	
16,200.00	7,618.00	7,671.90	7,564.40	125.72	31.61	-90.52	498.18	6,349.42	7,128.59	6,998.69	129.90	54.878	
16,300.00	7,618.00	7,672.43	7,564.93	127.32	31.61	-90.53	498.18	6,349.42	7,218.55	7,088.34	130.22	55.435	
16,400.00	7,618.00	7,672.95	7,565.46	128.93	31.61	-90.54	498.17	6,349.42	7,308.78	7,178.25	130.53	55.995	
16,500.00	7,618.00	7,673.48	7,565.98	130.54	31.61	-90.55	498.17	6,349.42	7,399.25	7,268.43	130.82	56.559	
16,600.00	7,618.00	7,674.00	7,566.51	132.15	31.61	-90.56	498.16	6,349.42	7,489.97	7,358.86	131.11	57.126	
16,700.00	7,618.00	7,674.53	7,567.03	133.77	31.61	-90.57	498.16	6,349.43	7,580.93	7,449.53	131.39	57.697	
16,800.00	7,618.00	7,675.05	7,567.56	135.39	31.62	-90.58	498.16	6,349.43	7,672.10	7,540.44	131.66	58.270	
16,900.00	7,618.00	7,675.58	7,568.08	137.01	31.62	-90.59	498.15	6,349.43	7,763.50	7,631.57	131.93	58.847	
17,000.00	7,618.00	7,676.10	7,568.60	138.64	31.62	-90.60	498.15	6,349.43	7,855.10	7,722.92	132.18	59.426	
17,100.00	7,618.00	7,676.62	7,569.13	140.27	31.62	-90.61	498.15	6,349.44	7,946.91	7,814.48	132.43	60.008	
17,200.00	7,618.00	7,677.14	7,569.65	141.91	31.62	-90.62	498.14	6,349.44	8,038.91	7,906.24	132.67	60.592	
17,300.00	7,618.00	7,677.67	7,570.17	143.55	31.62	-90.63	498.14	6,349.44	8,131.10	7,998.19	132.91	61.179	
17,400.00	7,618.00	7,678.19	7,570.69	145.19	31.63	-90.63	498.14	6,349.44	8,223.47	8,090.34	133.13	61.769	
17,500.00	7,618.00	7,678.71	7,571.21	146.83	31.63	-90.64	498.13	6,349.45	8,316.02	8,182.67	133.35	62.361	
17,600.00	7,618.00	7,679.22	7,571.73	148.48	31.63	-90.65	498.13	6,349.45	8,408.74	8,275.17	133.57	62.954	
17,700.00	7,618.00	7,679.74	7,572.25	150.13	31.63	-90.66	498.13	6,349.45	8,501.63	8,367.85	133.78	63.550	
17,800.00	7,618.00	7,680.26	7,572.77	151.78	31.63	-90.67	498.12	6,349.45	8,594.67	8,460.69	133.98	64.148	
17,900.00	7,618.00	7,680.78	7,573.28	153.43	31.63	-90.68	498.12	6,349.46	8,687.87	8,553.69	134.18	64.748	
18,000.00	7,618.00	7,681.30	7,573.80	155.09	31.64	-90.69	498.12	6,349.46	8,781.22	8,646.85	134.37	65.350	
18,100.00	7,618.00	7,681.81	7,574.32	156.75	31.64	-90.70	498.11	6,349.46	8,874.71	8,740.15	134.56	65.954	
18,200.00	7,618.00	7,682.33	7,574.83	158.41	31.64	-90.71	498.11	6,349.46	8,968.35	8,833.60	134.74	66.559	
18,300.00	7,618.00	7,682.84	7,575.35	160.07	31.64	-90.72	498.11	6,349.47	9,062.12	8,927.20	134.92	67.165	
18,400.00	7,618.00	7,683.36	7,575.86	161.74	31.64	-90.73	498.10	6,349.47	9,156.02	9,020.92	135.10	67.774	
18,500.00	7,618.00	7,683.87	7,576.37	163.41	31.64	-90.74	498.10	6,349.47	9,250.05	9,114.78	135.27	68.384	
18,600.00	7,618.00	7,684.38	7,576.89	165.08	31.64	-90.75	498.10	6,349.47	9,344.20	9,208.77	135.43	68.995	
18,700.00	7,618.00	7,684.90	7,577.40	166.75	31.65	-90.76	498.09	6,349.48	9,438.48	9,302.88	135.60	69.608	
18,711.30	7,618.00	7,684.95	7,577.46	166.94	31.65	-90.76	498.09	6,349.48	9,449.14	9,313.52	135.61	69.677	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	82.03	757.95	5,414.25	5,467.67				
100.00	100.00	21.07	21.07	0.13	0.03	82.03	757.93	5,414.24	5,467.03	5,466.87	0.17	N/A	
200.00	200.00	117.05	117.05	0.49	0.26	82.04	757.30	5,414.17	5,466.88	5,466.13	0.75	7,288.701	
200.40	200.40	117.34	117.33	0.49	0.26	82.04	757.29	5,414.17	5,466.88	5,466.13	0.75	7,264.926	
300.00	300.00	169.00	168.97	0.85	0.45	82.05	755.84	5,414.47	5,467.19	5,465.89	1.30	4,219.142	
400.00	400.00	235.27	235.14	1.21	0.69	82.09	752.47	5,415.56	5,468.20	5,466.30	1.90	2,879.364	
500.00	500.00	292.77	292.46	1.57	0.91	82.14	748.15	5,417.28	5,470.12	5,467.64	2.48	2,209.882	
600.00	600.00	351.00	350.39	1.93	1.13	82.20	742.77	5,419.54	5,472.74	5,469.68	3.06	1,789.738	
700.00	700.00	411.27	410.22	2.29	1.38	82.27	736.04	5,422.48	5,476.11	5,472.45	3.66	1,496.255	
800.00	800.00	442.00	440.64	2.64	1.50	82.31	732.12	5,424.23	5,480.39	5,476.25	4.14	1,322.852	
900.00	900.00	494.95	492.91	3.00	1.74	82.40	724.52	5,427.93	5,485.65	5,480.92	4.73	1,159.769	
1,000.00	999.98	533.00	530.32	3.36	1.90	25.24	718.39	5,431.21	5,490.57	5,485.32	5.25	1,046.642	
1,100.00	1,099.84	566.41	563.05	3.71	2.06	25.28	712.58	5,434.52	5,493.51	5,487.76	5.75	955.524	
1,200.00	1,199.45	624.00	619.21	4.07	2.34	25.42	701.69	5,441.18	5,494.62	5,488.25	6.37	862.704	
1,300.00	1,298.70	646.66	641.21	4.44	2.46	25.49	697.09	5,444.07	5,493.49	5,486.66	6.83	803.868	
1,400.00	1,397.47	715.00	707.22	4.82	2.82	25.74	681.96	5,453.17	5,490.14	5,482.60	7.54	728.258	
1,500.00	1,495.62	758.27	748.77	5.22	3.07	25.94	671.51	5,459.32	5,484.49	5,476.36	8.14	674.001	
1,600.00	1,593.06	808.00	796.25	5.65	3.36	26.20	658.84	5,466.88	5,476.76	5,467.98	8.78	623.900	
1,700.00	1,689.64	857.84	843.58	6.11	3.67	26.49	645.43	5,474.90	5,466.88	5,457.43	9.45	578.537	
1,800.00	1,785.27	913.48	896.10	6.61	4.02	26.85	629.63	5,484.25	5,454.79	5,444.63	10.17	536.440	
1,900.00	1,879.82	973.61	952.73	7.15	4.42	27.27	612.33	5,494.71	5,440.47	5,429.53	10.94	497.388	
2,000.00	1,973.17	1,059.96	1,033.90	7.73	4.99	27.85	587.19	5,510.04	5,423.76	5,411.86	11.90	455.744	
2,100.00	2,065.21	1,142.68	1,111.42	8.37	5.56	28.47	562.31	5,524.71	5,404.37	5,391.50	12.87	419.911	
2,200.00	2,155.84	2,200.00	1,295.90	9.07	12.70	29.77	504.40	5,556.96	5,381.00	5,360.93	20.07	268.071	
2,300.00	2,244.94	1,394.71	1,348.68	9.82	7.27	30.35	487.87	5,565.72	5,354.86	5,339.43	15.44	346.868	
2,400.00	2,332.39	1,433.00	1,384.64	10.64	7.54	30.88	476.37	5,572.08	5,327.01	5,310.82	16.19	329.105	
2,500.00	2,418.11	1,470.15	1,419.40	11.53	7.80	31.43	464.95	5,578.53	5,297.44	5,280.47	16.97	312.231	
2,558.91	2,467.74	1,491.34	1,439.15	12.08	7.96	31.78	458.28	5,582.34	5,279.24	5,261.81	17.44	302.776	
2,600.00	2,502.13	1,505.96	1,452.74	12.47	8.06	31.87	453.61	5,585.03	5,266.45	5,248.68	17.77	296.416	
2,700.00	2,585.83	1,561.39	1,504.09	13.45	8.47	32.25	435.54	5,595.48	5,236.11	5,217.38	18.73	279.559	
2,800.00	2,669.53	1,643.04	1,579.69	14.44	9.08	32.81	408.81	5,610.85	5,206.40	5,186.50	19.90	261.563	
2,900.00	2,753.22	1,752.67	1,681.46	15.46	9.89	33.57	373.59	5,631.38	5,177.30	5,156.00	21.29	243.130	
3,000.00	2,836.92	1,868.11	1,789.28	16.48	10.72	34.36	337.75	5,651.73	5,147.72	5,124.99	22.73	226.507	
3,100.00	2,920.62	1,941.84	1,858.44	17.52	11.24	34.86	315.75	5,664.78	5,118.84	5,094.97	23.88	214.396	
3,200.00	3,004.32	2,019.20	1,931.15	18.56	11.78	35.39	293.16	5,678.50	5,090.58	5,065.52	25.06	203.136	
3,300.00	3,088.01	2,091.60	1,999.19	19.61	12.29	35.88	272.07	5,691.41	5,062.99	5,036.76	26.22	193.068	
3,400.00	3,171.71	2,148.36	2,052.43	20.67	12.69	36.27	255.29	5,701.66	5,036.24	5,008.93	27.30	184.468	
3,500.00	3,255.41	2,206.55	2,106.85	21.73	13.11	36.68	237.69	5,712.35	5,010.44	4,982.04	28.40	176.403	
3,600.00	3,339.10	2,266.38	2,162.74	22.80	13.54	37.10	219.50	5,723.55	4,985.59	4,956.06	29.53	168.821	
3,700.00	3,422.80	2,437.85	2,323.62	23.87	14.75	38.31	168.80	5,754.30	4,960.56	4,929.11	31.44	157.767	
3,800.00	3,506.50	2,512.55	2,394.04	24.94	15.27	38.84	147.43	5,767.20	4,935.68	4,903.00	32.69	151.002	
3,900.00	3,590.20	2,575.82	2,453.54	26.02	15.71	39.29	128.97	5,778.22	4,911.66	4,877.79	33.87	145.028	
4,000.00	3,673.89	2,634.06	2,508.08	27.10	16.13	39.71	111.28	5,788.45	4,888.61	4,853.58	35.03	139.551	
4,100.00	3,757.59	2,738.23	2,605.67	28.18	16.87	40.47	79.81	5,806.80	4,866.32	4,829.79	36.53	133.211	
4,200.00	3,841.29	2,806.67	2,670.05	29.26	17.35	40.97	59.95	5,818.82	4,844.48	4,806.70	37.78	128.232	
4,300.00	3,924.99	2,864.18	2,723.98	30.35	17.76	41.39	42.78	5,828.98	4,823.58	4,784.62	38.96	123.799	
4,400.00	4,008.68	2,914.89	2,771.40	31.44	18.12	41.76	27.31	5,838.14	4,803.83	4,763.72	40.11	119.770	
4,500.00	4,092.38	2,973.06	2,825.65	32.52	18.55	42.20	9.26	5,848.86	4,785.23	4,743.91	41.32	115.806	
4,600.00	4,176.08	3,036.73	2,884.92	33.62	19.02	42.68	-10.72	5,860.76	4,767.66	4,725.08	42.58	111.959	
4,700.00	4,259.77	3,112.25	2,955.11	34.71	19.58	43.26	-34.76	5,874.88	4,750.99	4,707.04	43.95	108.100	
4,800.00	4,343.47	3,197.10	3,033.78	35.80	20.22	43.92	-62.46	5,890.49	4,735.08	4,689.67	45.41	104.283	
4,900.00	4,427.17	3,328.56	3,155.81	36.89	21.20	44.94	-105.47	5,913.73	4,719.46	4,672.22	47.24	99.912	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,510.87	3,414.62	3,236.36	37.99	21.82	45.60	-131.66	5,928.92	4,704.11	4,655.41	48.69	96.604	
5,100.00	4,594.56	3,473.95	3,292.00	39.08	22.24	46.05	-149.21	5,939.66	4,689.69	4,639.74	49.95	93.896	
5,200.00	4,678.26	3,521.60	3,336.63	40.18	22.58	46.41	-163.42	5,948.48	4,676.44	4,625.33	51.12	91.489	
5,300.00	4,761.96	3,563.68	3,375.86	41.28	22.89	46.74	-176.40	5,956.43	4,664.58	4,612.34	52.24	89.285	
5,400.00	4,845.66	3,628.29	3,435.86	42.37	23.37	47.24	-196.85	5,968.90	4,654.06	4,600.50	53.56	86.900	
5,500.00	4,929.35	3,807.77	3,603.59	43.47	24.68	48.63	-251.15	6,002.51	4,643.56	4,587.79	55.77	83.256	
5,600.00	5,013.05	3,882.06	3,673.38	44.57	25.20	49.20	-272.81	6,015.90	4,633.01	4,575.85	57.16	81.051	
5,700.00	5,096.75	3,948.32	3,735.42	45.67	25.68	49.71	-292.90	6,027.65	4,623.42	4,564.92	58.50	79.037	
5,800.00	5,180.45	3,995.43	3,779.36	46.77	26.02	50.09	-307.70	6,035.97	4,615.00	4,555.32	59.69	77.322	
5,900.00	5,264.14	4,038.53	3,819.51	47.87	26.34	50.43	-321.20	6,043.94	4,608.02	4,547.18	60.84	75.741	
6,000.00	5,347.84	4,102.24	3,878.80	48.97	26.81	50.93	-341.04	6,056.20	4,602.37	4,540.21	62.16	74.041	
6,100.00	5,431.54	4,209.67	3,978.81	50.07	27.61	51.77	-374.44	6,076.73	4,597.52	4,533.67	63.85	72.006	
6,200.00	5,515.23	4,286.79	4,050.62	51.17	28.18	52.39	-398.85	6,090.72	4,593.00	4,527.71	65.29	70.348	
6,300.00	5,598.93	4,337.00	4,097.37	52.27	28.55	52.78	-414.57	6,100.14	4,589.69	4,523.19	66.50	69.018	
6,400.00	5,682.63	4,392.26	4,148.78	53.38	28.96	53.22	-431.76	6,110.87	4,587.66	4,519.92	67.75	67.718	
6,500.00	5,766.33	4,450.41	4,202.78	54.48	29.40	53.68	-449.88	6,122.54	4,586.95	4,517.93	69.02	66.463	
6,520.39	5,783.39	4,466.85	4,218.04	54.70	29.52	53.81	-455.02	6,125.85	4,586.93	4,517.62	69.31	66.176	
6,600.00	5,850.02	4,531.90	4,278.42	55.58	30.01	54.32	-475.46	6,138.87	4,587.19	4,516.70	70.49	65.077	
6,700.00	5,933.72	4,622.85	4,362.63	56.68	30.70	55.05	-505.06	6,156.27	4,588.15	4,516.09	72.06	63.674	
6,800.00	6,017.42	4,680.88	4,416.18	57.79	31.15	55.52	-524.69	6,166.97	4,590.07	4,516.73	73.34	62.587	
6,900.00	6,101.12	6,349.24	6,037.03	58.89	39.11	67.55	-805.23	6,328.03	4,584.35	4,501.60	82.75	55.403	
7,000.00	6,184.81	6,439.21	6,127.00	59.99	39.27	68.14	-805.47	6,327.41	4,559.89	4,475.86	84.04	54.261	
7,100.00	6,268.51	6,533.97	6,221.75	61.10	39.44	68.78	-805.71	6,326.50	4,535.78	4,450.44	85.34	53.151	
7,200.00	6,352.21	6,630.89	6,318.67	62.20	39.62	69.43	-805.69	6,325.45	4,512.01	4,425.36	86.64	52.075	
7,300.00	6,435.90	6,714.67	6,402.44	63.31	39.76	70.00	-805.52	6,324.38	4,488.58	4,400.63	87.95	51.035	
7,400.00	6,519.60	6,811.18	6,498.95	64.41	39.93	70.65	-805.13	6,323.42	4,465.85	4,376.58	89.27	50.027	
7,500.00	6,603.30	6,917.43	6,605.18	65.51	40.11	71.38	-804.34	6,321.57	4,442.94	4,352.34	90.60	49.041	
7,600.00	6,687.00	7,019.51	6,707.23	66.62	40.29	72.09	-803.79	6,319.48	4,420.58	4,328.65	91.93	48.084	
7,700.00	6,770.69	7,131.87	6,819.55	67.72	40.48	72.89	-802.85	6,316.42	4,398.18	4,304.90	93.28	47.150	
7,800.00	6,854.39	7,225.76	6,913.39	68.83	40.64	73.55	-801.60	6,313.68	4,376.03	4,281.40	94.63	46.245	
7,900.00	6,938.09	7,272.45	6,960.06	69.93	40.72	73.89	-800.88	6,312.51	4,354.69	4,258.72	95.97	45.377	
7,933.18	6,965.86	7,285.97	6,973.58	70.30	40.75	73.98	-800.66	6,312.29	4,347.92	4,251.51	96.41	45.098	
7,950.00	6,980.00	7,292.88	6,980.48	70.49	40.76	71.46	-800.55	6,312.20	4,344.38	4,247.75	96.63	44.958	
8,000.00	7,022.68	7,331.00	7,018.60	71.01	40.83	63.23	-799.90	6,312.00	4,332.13	4,234.87	97.26	44.540	
8,050.00	7,066.06	7,352.13	7,039.72	71.51	40.87	53.76	-799.57	6,311.95	4,317.12	4,219.28	97.84	44.125	
8,100.00	7,109.82	7,457.92	7,145.48	71.97	41.06	43.92	-799.01	6,309.63	4,299.05	4,200.65	98.40	43.691	
8,150.00	7,153.63	8,150.00	7,168.64	72.38	42.37	33.27	-799.58	6,307.85	4,277.66	4,177.02	100.64	42.504	
8,200.00	7,197.14	8,200.00	7,211.46	72.74	42.46	22.78	-799.49	6,306.66	4,254.29	4,153.24	101.05	42.102	
8,250.00	7,240.04	7,556.43	7,243.87	73.05	41.26	12.70	-800.10	6,304.96	4,228.35	4,128.79	99.56	42.470	
8,300.00	7,281.99	7,572.46	7,259.89	73.31	41.29	3.20	-800.38	6,304.38	4,200.62	4,100.83	99.79	42.094	
8,350.00	7,322.67	7,611.00	7,298.41	73.52	41.37	-5.68	-801.15	6,303.39	4,171.27	4,071.31	99.97	41.727	
8,400.00	7,361.77	7,611.00	7,298.41	73.68	41.37	-14.01	-801.15	6,303.39	4,140.06	4,040.03	100.03	41.388	
8,450.00	7,399.01	7,611.00	7,298.41	73.78	41.37	-21.87	-801.15	6,303.39	4,107.64	4,007.62	100.02	41.069	
8,500.00	7,434.08	7,638.96	7,326.36	73.85	41.44	-29.55	-801.72	6,303.05	4,074.05	3,974.08	99.97	40.754	
8,550.00	7,466.74	7,656.29	7,343.69	73.87	41.48	-36.97	-802.03	6,302.97	4,039.58	3,939.75	99.83	40.463	
8,600.00	7,496.72	7,672.30	7,359.70	73.85	41.52	-44.19	-802.29	6,303.01	4,004.50	3,904.87	99.63	40.192	
8,650.00	7,523.80	7,686.85	7,374.24	73.79	41.55	-51.19	-802.50	6,303.12	3,969.09	3,869.72	99.37	39.943	
8,700.00	7,547.77	7,705.00	7,392.39	73.70	41.60	-57.98	-802.74	6,303.37	3,933.64	3,834.59	99.05	39.713	
8,750.00	7,568.45	7,705.00	7,392.39	73.58	41.60	-64.13	-802.74	6,303.37	3,898.47	3,799.81	98.66	39.514	
8,800.00	7,585.69	7,705.00	7,392.39	73.43	41.60	-69.81	-802.74	6,303.37	3,863.92	3,765.70	98.22	39.340	
8,850.00	7,599.35	7,728.78	7,416.17	73.26	41.66	-75.40	-803.08	6,303.82	3,830.14	3,732.37	97.76	39.177	
8,900.00	7,609.33	7,734.73	7,422.11	73.07	41.68	-80.11	-803.18	6,303.94	3,797.61	3,700.36	97.25	39.049	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,950.00	7,615.55	7,738.65	7,426.03	72.87	41.69	-84.18	-803.25	6,304.02	3,766.57	3,669.87	96.70	38.949	
9,000.00	7,617.97	7,740.49	7,427.88	72.65	41.69	-87.61	-803.28	6,304.06	3,737.31	3,641.18	96.13	38.878	
9,006.60	7,618.00	7,740.58	7,427.96	72.62	41.69	-88.02	-803.28	6,304.07	3,733.59	3,637.54	96.05	38.871	
9,100.00	7,618.00	7,741.53	7,428.91	72.22	41.69	-88.03	-803.30	6,304.09	3,682.09	3,587.14	94.95	38.781	
9,200.00	7,618.00	7,742.57	7,429.95	71.80	41.70	-88.05	-803.32	6,304.11	3,628.80	3,535.04	93.76	38.705	
9,300.00	7,618.00	7,743.64	7,431.02	71.41	41.70	-88.07	-803.34	6,304.13	3,577.51	3,484.95	92.56	38.649	
9,400.00	7,618.00	7,744.72	7,432.10	71.04	41.70	-88.09	-803.36	6,304.16	3,528.31	3,436.93	91.38	38.612	
9,500.00	7,618.00	7,745.82	7,433.20	70.68	41.71	-88.11	-803.38	6,304.18	3,481.29	3,391.08	90.21	38.591	
9,600.00	7,618.00	7,746.95	7,434.33	70.35	41.71	-88.13	-803.40	6,304.21	3,436.53	3,347.47	89.07	38.584	
9,700.00	7,618.00	7,748.10	7,435.48	70.04	41.71	-88.16	-803.43	6,304.24	3,394.13	3,306.17	87.96	38.586	
9,800.00	7,618.00	7,749.28	7,436.66	69.75	41.71	-88.18	-803.45	6,304.26	3,354.18	3,267.27	86.91	38.593	
9,900.00	7,618.00	7,750.48	7,437.86	69.47	41.72	-88.20	-803.47	6,304.29	3,316.76	3,230.83	85.93	38.598	
10,000.00	7,618.00	7,751.71	7,439.08	69.22	41.72	-88.22	-803.50	6,304.32	3,281.96	3,196.92	85.04	38.593	
10,100.00	7,618.00	7,752.96	7,440.33	68.99	41.72	-88.25	-803.52	6,304.35	3,249.87	3,165.61	84.26	38.571	
10,200.00	7,618.00	7,754.24	7,441.61	68.78	41.73	-88.27	-803.55	6,304.38	3,220.56	3,136.95	83.60	38.522	
10,300.00	7,618.00	7,755.55	7,442.92	68.59	41.73	-88.29	-803.58	6,304.41	3,194.11	3,111.01	83.10	38.437	
10,400.00	7,618.00	7,756.89	7,444.26	68.42	41.73	-88.32	-803.61	6,304.45	3,170.60	3,087.83	82.77	38.307	
10,500.00	7,618.00	7,758.26	7,445.63	68.28	41.74	-88.34	-803.64	6,304.48	3,150.08	3,067.46	82.63	38.124	
10,600.00	7,618.00	7,759.66	7,447.03	68.16	41.74	-88.37	-803.67	6,304.51	3,132.63	3,049.94	82.69	37.883	
10,700.00	7,618.00	7,761.09	7,448.46	68.06	41.75	-88.40	-803.70	6,304.55	3,118.28	3,035.31	82.97	37.581	
10,800.00	7,618.00	7,762.56	7,449.93	67.99	41.75	-88.42	-803.73	6,304.59	3,107.09	3,023.61	83.48	37.219	
10,900.00	7,618.00	7,764.06	7,451.43	67.95	41.75	-88.45	-803.76	6,304.63	3,099.09	3,014.87	84.21	36.802	
11,000.00	7,618.00	7,765.59	7,452.96	67.95	41.76	-88.48	-803.80	6,304.67	3,094.29	3,009.13	85.16	36.336	
11,098.51	7,618.00	7,767.15	7,454.51	67.97	41.76	-88.51	-803.83	6,304.71	3,092.72	3,006.43	86.29	35.841	CC
11,100.00	7,618.00	7,767.17	7,454.54	67.97	41.76	-88.51	-803.83	6,304.71	3,092.72	3,006.42	86.31	35.833	ES
11,200.00	7,618.00	7,768.78	7,456.15	68.04	41.77	-88.54	-803.87	6,304.75	3,094.39	3,006.74	87.65	35.305	
11,300.00	7,618.00	7,770.44	7,457.80	68.15	41.77	-88.57	-803.91	6,304.79	3,099.28	3,010.12	89.15	34.763	
11,400.00	7,618.00	7,772.13	7,459.50	68.30	41.78	-88.60	-803.95	6,304.84	3,107.38	3,016.57	90.80	34.221	
11,500.00	7,618.00	7,773.87	7,461.24	68.50	41.78	-88.63	-803.99	6,304.88	3,118.67	3,026.09	92.57	33.689	
11,600.00	7,618.00	7,775.66	7,463.02	68.75	41.78	-88.67	-804.04	6,304.93	3,133.10	3,038.67	94.44	33.177	
11,700.00	7,618.00	7,777.49	7,464.85	69.06	41.79	-88.70	-804.08	6,304.98	3,150.65	3,054.28	96.37	32.694	
11,800.00	7,618.00	7,779.37	7,466.73	69.44	41.79	-88.74	-804.13	6,305.03	3,171.25	3,072.90	98.35	32.245	
11,900.00	7,618.00	7,781.30	7,468.66	69.88	41.80	-88.77	-804.18	6,305.09	3,194.85	3,094.50	100.35	31.835	
12,000.00	7,618.00	7,783.29	7,470.64	70.39	41.81	-88.81	-804.23	6,305.14	3,221.38	3,119.01	102.37	31.468	
12,100.00	7,618.00	7,785.33	7,472.68	70.97	41.81	-88.85	-804.28	6,305.20	3,250.77	3,146.39	104.38	31.144	
12,200.00	7,618.00	7,787.42	7,474.78	71.63	41.82	-88.88	-804.34	6,305.26	3,282.94	3,176.58	106.36	30.865	
12,300.00	7,618.00	7,789.58	7,476.93	72.35	41.82	-88.92	-804.40	6,305.32	3,317.82	3,209.50	108.32	30.631	
12,400.00	7,618.00	7,791.80	7,479.15	73.15	41.83	-88.97	-804.46	6,305.39	3,355.31	3,245.08	110.23	30.440	
12,500.00	7,618.00	7,794.08	7,481.43	74.01	41.83	-89.01	-804.52	6,305.46	3,395.33	3,283.24	112.08	30.293	
12,600.00	7,618.00	7,796.44	7,483.78	74.93	41.84	-89.05	-804.59	6,305.53	3,437.79	3,323.91	113.88	30.187	
12,700.00	7,618.00	7,798.86	7,486.20	75.91	41.85	-89.10	-804.66	6,305.60	3,482.61	3,366.98	115.62	30.121	
12,800.00	7,618.00	7,801.31	7,488.65	76.95	41.85	-89.14	-804.73	6,305.67	3,529.69	3,412.39	117.30	30.092	SF
12,900.00	7,618.00	7,803.80	7,491.14	78.04	41.86	-89.19	-804.80	6,305.75	3,578.94	3,460.03	118.90	30.100	
13,000.00	7,618.00	7,806.34	7,493.67	79.16	41.87	-89.23	-804.87	6,305.83	3,630.27	3,509.83	120.44	30.142	
13,100.00	7,618.00	7,808.92	7,496.25	80.33	41.88	-89.28	-804.95	6,305.91	3,683.61	3,561.70	121.91	30.216	
13,200.00	7,618.00	7,811.54	7,498.87	81.54	41.88	-89.33	-805.03	6,305.99	3,738.86	3,615.55	123.31	30.321	
13,300.00	7,618.00	7,814.22	7,501.55	82.78	41.89	-89.38	-805.11	6,306.08	3,795.93	3,671.29	124.64	30.455	
13,400.00	7,618.00	7,816.94	7,504.27	84.05	41.90	-89.43	-805.19	6,306.17	3,854.75	3,728.85	125.91	30.616	
13,500.00	7,618.00	7,819.71	7,507.04	85.35	41.91	-89.48	-805.28	6,306.26	3,915.25	3,788.14	127.11	30.802	
13,600.00	7,618.00	7,822.54	7,509.86	86.67	41.92	-89.53	-805.36	6,306.35	3,977.33	3,849.08	128.25	31.012	
13,700.00	7,618.00	7,825.42	7,512.74	88.02	41.92	-89.59	-805.45	6,306.45	4,040.93	3,911.61	129.33	31.246	
13,800.00	7,618.00	7,828.35	7,515.67	89.38	41.93	-89.64	-805.55	6,306.55	4,105.98	3,975.64	130.35	31.500	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,900.00	7,618.00	7,831.34	7,518.66	90.77	41.94	-89.70	-805.64	6,306.65	4,172.42	4,041.10	131.31	31.774	
14,000.00	7,618.00	7,834.39	7,521.70	92.17	41.95	-89.75	-805.74	6,306.75	4,240.16	4,107.94	132.23	32.068	
14,100.00	7,618.00	7,837.50	7,524.81	93.59	41.96	-89.81	-805.84	6,306.86	4,309.16	4,176.08	133.09	32.378	
14,200.00	7,618.00	7,840.67	7,527.97	95.02	41.97	-89.87	-805.94	6,306.97	4,379.36	4,245.46	133.90	32.706	
14,300.00	7,618.00	7,843.91	7,531.20	96.47	41.98	-89.93	-806.05	6,307.08	4,450.69	4,316.02	134.67	33.049	
14,400.00	7,618.00	7,847.20	7,534.50	97.93	41.99	-89.99	-806.16	6,307.20	4,523.11	4,387.71	135.39	33.407	
14,500.00	7,618.00	7,850.57	7,537.86	99.41	42.00	-90.05	-806.28	6,307.32	4,596.56	4,460.48	136.08	33.779	
14,600.00	7,618.00	7,854.01	7,541.29	100.89	42.01	-90.12	-806.39	6,307.45	4,670.99	4,534.26	136.72	34.164	
14,700.00	7,618.00	7,857.51	7,544.80	102.38	42.02	-90.18	-806.51	6,307.58	4,746.36	4,609.02	137.33	34.561	
14,800.00	7,618.00	7,861.10	7,548.37	103.89	42.03	-90.25	-806.64	6,307.71	4,822.62	4,684.71	137.91	34.970	
14,900.00	7,618.00	7,864.75	7,552.03	105.40	42.04	-90.32	-806.77	6,307.85	4,899.73	4,761.28	138.45	35.390	
15,000.00	7,618.00	7,868.49	7,555.76	106.92	42.05	-90.38	-806.90	6,307.99	4,977.66	4,838.69	138.96	35.820	
15,100.00	7,618.00	7,872.31	7,559.57	108.45	42.06	-90.45	-807.04	6,308.13	5,056.36	4,916.91	139.45	36.260	
15,200.00	7,618.00	7,876.21	7,563.47	109.99	42.07	-90.53	-807.18	6,308.28	5,135.80	4,995.89	139.90	36.709	
15,300.00	7,618.00	7,880.20	7,567.45	111.54	42.08	-90.60	-807.33	6,308.44	5,215.94	5,075.60	140.34	37.167	
15,400.00	7,618.00	7,884.28	7,571.52	113.09	42.09	-90.68	-807.48	6,308.60	5,296.75	5,156.01	140.74	37.634	
15,500.00	7,618.00	7,888.45	7,575.69	114.65	42.11	-90.75	-807.64	6,308.77	5,378.21	5,237.08	141.13	38.108	
15,600.00	7,618.00	7,892.96	7,580.19	116.21	42.12	-90.84	-807.81	6,308.95	5,460.28	5,318.79	141.50	38.590	
15,700.00	7,618.00	7,898.68	7,585.90	117.78	42.14	-90.94	-808.03	6,309.18	5,542.94	5,401.10	141.84	39.078	
15,800.00	7,618.00	7,904.29	7,591.50	119.36	42.15	-91.05	-808.24	6,309.40	5,626.15	5,483.98	142.17	39.573	
15,900.00	7,618.00	7,909.79	7,596.99	120.94	42.17	-91.15	-808.44	6,309.61	5,709.90	5,567.42	142.48	40.075	
16,000.00	7,618.00	7,915.18	7,602.38	122.53	42.18	-91.25	-808.64	6,309.80	5,794.17	5,651.39	142.78	40.582	
16,100.00	7,618.00	7,920.47	7,607.66	124.12	42.20	-91.34	-808.83	6,309.99	5,878.92	5,735.87	143.05	41.096	
16,200.00	7,618.00	7,925.66	7,612.84	125.72	42.21	-91.44	-809.02	6,310.17	5,964.14	5,820.82	143.32	41.615	
16,300.00	7,618.00	7,930.75	7,617.93	127.32	42.23	-91.53	-809.20	6,310.34	6,049.81	5,906.24	143.57	42.139	
16,400.00	7,618.00	7,935.75	7,622.92	128.93	42.24	-91.63	-809.38	6,310.50	6,135.91	5,992.11	143.81	42.668	
16,500.00	7,618.00	7,940.65	7,627.82	130.54	42.26	-91.72	-809.55	6,310.65	6,222.43	6,078.39	144.03	43.201	
16,600.00	7,618.00	7,945.47	7,632.63	132.15	42.27	-91.81	-809.72	6,310.80	6,309.34	6,165.09	144.25	43.739	
16,700.00	7,618.00	7,950.19	7,637.35	133.77	42.29	-91.89	-809.88	6,310.93	6,396.63	6,252.18	144.45	44.282	
16,800.00	7,618.00	7,954.84	7,641.99	135.39	42.30	-91.98	-810.04	6,311.06	6,484.28	6,339.64	144.65	44.828	
16,900.00	7,618.00	7,959.40	7,646.55	137.01	42.31	-92.06	-810.19	6,311.19	6,572.29	6,427.46	144.83	45.379	
17,000.00	7,618.00	7,963.88	7,651.03	138.64	42.33	-92.14	-810.35	6,311.31	6,660.63	6,515.62	145.01	45.933	
17,100.00	7,618.00	7,968.28	7,655.43	140.27	42.34	-92.23	-810.49	6,311.42	6,749.30	6,604.12	145.17	46.491	
17,200.00	7,618.00	7,972.61	7,659.75	141.91	42.35	-92.31	-810.63	6,311.52	6,838.27	6,692.94	145.33	47.052	
17,300.00	7,618.00	7,976.86	7,664.00	143.55	42.36	-92.38	-810.77	6,311.62	6,927.55	6,782.06	145.49	47.617	
17,400.00	7,618.00	7,981.04	7,668.17	145.19	42.38	-92.46	-810.91	6,311.72	7,017.11	6,871.48	145.63	48.184	
17,500.00	7,618.00	7,985.15	7,672.28	146.83	42.39	-92.54	-811.04	6,311.81	7,106.94	6,961.18	145.77	48.755	
17,600.00	7,618.00	7,989.19	7,676.32	148.48	42.40	-92.61	-811.17	6,311.90	7,197.05	7,051.15	145.90	49.328	
17,700.00	7,618.00	7,993.17	7,680.29	150.13	42.41	-92.68	-811.29	6,311.98	7,287.41	7,141.38	146.03	49.905	
17,800.00	7,618.00	7,997.07	7,684.19	151.78	42.42	-92.76	-811.42	6,312.05	7,378.02	7,231.87	146.15	50.483	
17,900.00	7,618.00	8,000.92	7,688.04	153.43	42.43	-92.83	-811.54	6,312.12	7,468.86	7,322.60	146.26	51.065	
18,000.00	7,618.00	8,004.70	7,691.82	155.09	42.44	-92.90	-811.65	6,312.19	7,559.94	7,413.56	146.37	51.648	
18,100.00	7,618.00	7,986.00	7,673.13	156.75	42.39	-92.55	-811.07	6,311.83	7,651.26	7,504.81	146.45	52.244	
18,200.00	7,618.00	7,986.00	7,673.13	158.41	42.39	-92.55	-811.07	6,311.83	7,742.78	7,596.23	146.55	52.835	
18,300.00	7,618.00	8,000.44	7,687.56	160.07	42.43	-92.82	-811.51	6,312.11	7,834.49	7,687.83	146.65	53.421	
18,400.00	7,618.00	8,002.12	7,689.23	161.74	42.43	-92.85	-811.56	6,312.14	7,926.41	7,779.66	146.74	54.015	
18,500.00	7,618.00	8,003.75	7,690.87	163.41	42.44	-92.88	-811.60	6,312.17	8,018.52	7,871.69	146.83	54.611	
18,600.00	7,618.00	8,005.35	7,692.47	165.08	42.44	-92.91	-811.65	6,312.20	8,110.82	7,963.91	146.91	55.208	
18,700.00	7,618.00	8,006.92	7,694.03	166.75	42.45	-92.94	-811.69	6,312.23	8,203.30	8,056.31	146.99	55.807	
18,711.30	7,618.00	8,007.09	7,694.21	166.94	42.45	-92.94	-811.70	6,312.23	8,213.76	8,066.76	147.00	55.875	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1,146.72	1,124.19	0.00	5.08	83.33	613.34	5,246.92	5,418.60				
100.00	100.00	1,215.00	1,189.69	0.13	5.49	83.47	599.20	5,233.80	5,396.72	5,391.44	5.28	1,022.045	
200.00	200.00	1,297.63	1,268.97	0.49	5.98	83.64	581.84	5,218.27	5,375.27	5,369.41	5.86	916.584	
300.00	300.00	1,560.47	1,519.61	0.85	7.61	84.24	521.56	5,167.15	5,354.03	5,346.51	7.52	711.919	
400.00	400.00	1,725.81	1,676.58	1.21	8.67	84.59	486.00	5,129.28	5,328.36	5,319.68	8.68	613.873	
500.00	500.00	1,778.00	1,726.23	1.57	9.01	84.69	475.21	5,117.38	5,303.29	5,294.02	9.27	572.073	
600.00	600.00	1,878.46	1,821.88	1.93	9.65	84.90	454.35	5,094.81	5,278.60	5,268.48	10.12	521.697	
700.00	700.00	1,928.17	1,869.35	2.29	9.96	85.00	444.55	5,083.81	5,254.39	5,243.68	10.71	490.626	
800.00	800.00	1,985.81	1,924.65	2.64	10.31	85.11	434.11	5,071.34	5,230.96	5,219.62	11.34	461.100	
900.00	900.00	2,056.00	1,992.03	3.00	10.74	85.24	421.02	5,056.69	5,208.24	5,196.20	12.04	432.550	
1,000.00	999.98	2,224.94	2,153.83	3.36	11.78	28.64	389.06	5,020.11	5,183.13	5,169.90	13.22	392.050	
1,100.00	1,099.84	2,328.05	2,252.56	3.71	12.41	29.15	370.11	4,997.19	5,154.81	5,140.73	14.08	366.069	
1,200.00	1,199.45	2,403.07	2,324.45	4.07	12.87	29.65	356.64	4,980.51	5,123.70	5,108.89	14.81	346.026	
1,300.00	1,298.70	2,493.27	2,410.95	4.44	13.43	30.25	340.49	4,960.70	5,090.06	5,074.46	15.61	326.147	
1,400.00	1,397.47	2,562.38	2,477.20	4.82	13.85	30.86	327.87	4,945.57	5,053.75	5,037.44	16.31	309.786	
1,500.00	1,495.62	2,618.21	2,530.75	5.22	14.19	31.48	317.38	4,933.74	5,015.35	4,998.38	16.97	295.616	
1,600.00	1,593.06	2,722.20	2,630.50	5.65	14.82	32.34	297.79	4,911.87	4,974.48	4,956.63	17.86	278.589	
1,700.00	1,689.64	2,760.71	2,667.54	6.11	15.05	33.00	290.85	4,903.92	4,931.43	4,912.99	18.44	267.439	
1,800.00	1,785.27	2,814.31	2,719.24	6.61	15.37	33.78	281.66	4,893.22	4,886.59	4,867.48	19.11	255.768	
1,900.00	1,879.82	3,036.74	2,933.08	7.15	16.70	35.44	244.58	4,844.58	4,836.91	4,816.38	20.54	235.509	
2,000.00	1,973.17	3,084.00	2,978.52	7.73	16.98	36.38	236.76	4,834.19	4,785.67	4,764.46	21.21	225.640	
2,100.00	2,065.21	3,162.65	3,054.19	8.37	17.45	37.58	223.77	4,817.15	4,732.62	4,710.58	22.04	214.740	
2,200.00	2,155.84	3,241.06	3,129.52	9.07	17.93	38.89	210.59	4,799.82	4,677.15	4,654.25	22.90	204.278	
2,300.00	2,244.94	3,305.12	3,191.03	9.82	18.31	40.22	199.57	4,785.74	4,619.79	4,596.07	23.72	194.737	
2,400.00	2,332.39	3,371.89	3,245.72	10.64	18.72	41.61	189.38	4,773.38	4,560.77	4,536.16	24.60	185.360	
2,500.00	2,418.11	3,429.92	3,310.77	11.53	19.07	43.20	177.00	4,758.78	4,500.12	4,474.64	25.48	176.620	
2,558.91	2,467.74	3,468.64	3,347.93	12.08	19.31	44.19	169.92	4,750.44	4,463.64	4,437.60	26.04	171.425	
2,600.00	2,502.13	3,485.84	3,364.43	12.47	19.42	44.34	166.77	4,746.76	4,438.07	4,411.68	26.39	168.166	
2,700.00	2,585.83	3,533.53	3,410.20	13.45	19.71	44.78	157.96	4,736.69	4,376.34	4,349.04	27.30	160.326	
2,800.00	2,669.53	3,576.34	3,451.31	14.44	19.96	45.19	149.99	4,727.82	4,315.34	4,287.12	28.21	152.949	
2,900.00	2,753.22	3,615.71	3,489.18	15.46	20.20	45.56	142.65	4,719.90	4,255.20	4,226.05	29.15	145.982	
3,000.00	2,836.92	3,647.00	3,519.30	16.48	20.39	45.86	136.80	4,713.78	4,195.98	4,165.90	30.08	139.504	
3,100.00	2,920.62	3,682.01	3,553.05	17.52	20.59	46.20	130.26	4,707.19	4,137.78	4,106.73	31.05	133.255	
3,200.00	3,004.32	3,711.39	3,581.44	18.56	20.76	46.49	124.78	4,701.96	4,080.75	4,048.72	32.03	127.409	
3,300.00	3,088.01	3,742.26	3,611.31	19.61	20.93	46.79	119.02	4,696.75	4,024.89	3,991.85	33.04	121.817	
3,400.00	3,171.71	3,400.00	3,762.41	20.67	18.92	48.38	89.46	4,669.03	3,968.93	3,936.86	32.07	123.751	
3,500.00	3,255.41	4,020.60	3,879.83	21.73	22.55	49.66	67.03	4,645.17	3,912.29	3,876.13	36.17	108.168	
3,600.00	3,339.10	4,074.25	3,931.55	22.80	22.87	50.23	57.55	4,634.53	3,856.21	3,818.84	37.38	103.168	
3,700.00	3,422.80	4,136.45	3,991.65	23.87	23.23	50.90	47.00	4,622.45	3,800.99	3,762.34	38.65	98.341	
3,800.00	3,506.50	4,231.04	4,083.00	24.94	23.78	51.94	31.21	4,603.68	3,746.12	3,706.02	40.09	93.434	
3,900.00	3,590.20	4,303.31	4,152.49	26.02	24.21	52.76	18.00	4,588.89	3,691.68	3,650.19	41.49	88.982	
4,000.00	3,673.89	4,410.56	4,255.24	27.10	24.87	54.04	-2.66	4,566.11	3,637.58	3,594.48	43.10	84.406	
4,100.00	3,757.59	4,485.83	4,327.15	28.18	25.34	54.96	-17.48	4,549.55	3,583.83	3,539.23	44.60	80.360	
4,200.00	3,841.29	4,572.37	4,409.56	29.26	25.90	56.05	-35.19	4,529.95	3,530.62	3,484.42	46.20	76.419	
4,300.00	3,924.99	4,654.57	4,487.61	30.35	26.44	57.12	-52.41	4,510.75	3,477.93	3,430.11	47.83	72.717	
4,400.00	4,008.68	4,737.23	4,566.07	31.44	26.98	58.22	-69.42	4,491.05	3,425.87	3,376.38	49.49	69.226	
4,500.00	4,092.38	4,795.73	4,621.71	32.52	27.36	59.00	-80.78	4,477.01	3,374.55	3,323.49	51.06	66.092	
4,600.00	4,176.08	4,835.89	4,659.87	33.62	27.63	59.55	-88.91	4,467.53	3,324.61	3,272.04	52.57	63.237	
4,700.00	4,259.77	4,866.00	4,688.46	34.71	27.82	59.97	-95.28	4,460.53	3,276.23	3,222.16	54.07	60.594	
4,800.00	4,343.47	4,917.14	4,737.07	35.80	28.15	60.68	-106.20	4,448.96	3,229.38	3,173.68	55.70	57.974	
4,900.00	4,427.17	4,959.31	4,777.25	36.89	28.43	61.28	-115.08	4,439.79	3,184.18	3,126.87	57.32	55.553	
5,000.00	4,510.87	5,054.12	4,867.72	37.99	29.03	62.62	-134.54	4,419.18	3,140.13	3,080.89	59.24	53.008	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	5,104.56	4,915.92	39.08	29.34	63.35	-144.59	4,408.18	3,097.18	3,036.24	60.94	50.822	
5,200.00	4,678.26	5,156.07	4,965.25	40.18	29.66	64.09	-154.61	4,397.25	3,055.83	2,993.15	62.67	48.759	
5,300.00	4,761.96	5,207.54	5,014.76	41.28	29.97	64.83	-164.00	4,386.84	3,016.11	2,951.71	64.40	46.831	
5,400.00	4,845.66	5,256.26	5,061.90	42.37	30.24	65.52	-172.11	4,377.55	2,978.07	2,911.95	66.12	45.038	
5,500.00	4,929.35	5,299.23	5,103.72	43.47	30.47	66.12	-178.55	4,370.06	2,941.92	2,874.11	67.81	43.386	
5,600.00	5,013.05	5,334.00	5,137.72	44.57	30.66	66.60	-183.26	4,364.53	2,907.72	2,838.26	69.46	41.864	
5,700.00	5,096.75	5,389.78	5,192.51	45.67	30.91	67.35	-190.08	4,356.60	2,875.42	2,804.25	71.17	40.402	
5,800.00	5,180.45	5,427.00	5,229.20	46.77	31.09	67.85	-194.21	4,351.91	2,845.12	2,772.32	72.81	39.077	
5,900.00	5,264.14	5,480.98	5,282.57	47.87	31.31	68.56	-199.71	4,346.01	2,816.81	2,742.33	74.48	37.817	
6,000.00	5,347.84	5,528.98	5,330.17	48.97	31.50	69.19	-204.18	4,341.67	2,790.59	2,714.46	76.13	36.656	
6,100.00	5,431.54	5,591.26	5,392.06	50.07	31.73	69.99	-209.33	4,336.98	2,766.19	2,688.39	77.80	35.555	
6,200.00	5,515.23	5,655.25	5,455.77	51.17	31.95	70.80	-213.75	4,333.13	2,743.42	2,663.97	79.45	34.529	
6,300.00	5,598.93	5,722.20	5,522.58	52.27	32.16	71.62	-217.15	4,330.36	2,722.24	2,641.16	81.08	33.574	
6,400.00	5,682.63	5,794.04	5,594.36	53.38	32.36	72.48	-219.47	4,328.69	2,702.51	2,619.83	82.68	32.685	
6,500.00	5,766.33	5,868.23	5,668.54	54.48	32.53	73.34	-220.65	4,328.19	2,684.12	2,599.88	84.24	31.861	
6,600.00	5,850.02	5,949.62	5,749.93	55.58	32.70	74.27	-221.07	4,328.56	2,666.95	2,581.16	85.79	31.086	
6,700.00	5,933.72	6,035.62	5,835.93	56.68	32.89	75.27	-221.57	4,328.87	2,650.77	2,563.43	87.35	30.348	
6,800.00	6,017.42	6,119.24	5,919.54	57.79	33.07	76.25	-222.15	4,328.99	2,635.56	2,546.67	88.89	29.648	
6,900.00	6,101.12	6,199.75	6,000.05	58.89	33.25	77.20	-222.81	4,329.14	2,621.50	2,531.07	90.43	28.990	
7,000.00	6,184.81	6,282.87	6,083.16	59.99	33.44	78.19	-223.50	4,329.34	2,608.57	2,516.61	91.96	28.367	
7,100.00	6,268.51	6,368.35	6,168.65	61.10	33.63	79.21	-224.04	4,329.68	2,596.71	2,503.24	93.47	27.781	
7,200.00	6,352.21	6,456.40	6,256.69	62.20	33.82	80.26	-224.42	4,330.05	2,585.85	2,490.88	94.97	27.228	
7,300.00	6,435.90	6,545.90	6,346.19	63.31	34.03	81.34	-224.75	4,330.25	2,575.95	2,479.48	96.46	26.705	
7,400.00	6,519.60	6,628.59	6,428.88	64.41	34.22	82.35	-225.00	4,330.35	2,567.08	2,469.16	97.92	26.216	
7,500.00	6,603.30	6,715.62	6,515.91	65.51	34.41	83.41	-225.19	4,330.52	2,559.34	2,459.98	99.36	25.758	
7,600.00	6,687.00	6,792.65	6,592.94	66.62	34.59	84.35	-225.33	4,330.70	2,552.75	2,451.99	100.76	25.335	
7,700.00	6,770.69	6,869.47	6,669.76	67.72	34.76	85.29	-225.65	4,331.09	2,547.61	2,445.47	102.13	24.944	
7,800.00	6,854.39	6,950.17	6,750.45	68.83	34.94	86.28	-226.03	4,331.66	2,543.76	2,440.27	103.48	24.581	
7,900.00	6,938.09	7,032.68	6,832.96	69.93	35.12	87.28	-226.34	4,332.52	2,541.17	2,436.36	104.81	24.246	
7,933.18	6,965.86	7,062.92	6,863.20	70.30	35.19	87.65	-226.42	4,332.84	2,540.55	2,435.30	105.25	24.139	
7,950.00	6,980.00	7,078.30	6,878.58	70.49	35.22	85.49	-226.46	4,332.99	2,540.07	2,434.60	105.47	24.084	
8,000.00	7,022.68	7,124.71	6,924.98	71.01	35.33	78.27	-226.57	4,333.40	2,536.25	2,430.15	106.10	23.904	
8,050.00	7,066.06	7,166.65	6,966.92	71.51	35.42	69.90	-226.67	4,333.76	2,528.93	2,422.25	106.68	23.705	
8,100.00	7,109.82	7,210.07	7,010.35	71.97	35.52	60.79	-226.79	4,334.12	2,518.12	2,410.89	107.22	23.485	
8,150.00	7,153.63	7,253.56	7,053.83	72.38	35.62	51.38	-226.92	4,334.47	2,503.83	2,396.11	107.72	23.244	
8,200.00	7,197.14	7,296.77	7,097.04	72.74	35.72	42.14	-227.07	4,334.82	2,486.13	2,377.96	108.16	22.985	
8,250.00	7,240.04	7,339.13	7,139.40	73.05	35.81	33.43	-227.23	4,335.15	2,465.10	2,356.54	108.55	22.709	
8,300.00	7,281.99	7,380.56	7,180.83	73.31	35.91	25.40	-227.41	4,335.46	2,440.86	2,331.97	108.89	22.416	
8,350.00	7,322.67	7,422.34	7,222.61	73.52	36.01	18.01	-227.61	4,335.76	2,413.55	2,304.37	109.18	22.106	
8,400.00	7,361.77	7,463.09	7,263.36	73.68	36.11	11.11	-227.80	4,336.00	2,383.33	2,273.91	109.42	21.781	
8,450.00	7,399.01	7,501.87	7,302.14	73.78	36.20	4.47	-227.99	4,336.19	2,350.40	2,240.80	109.61	21.444	
8,500.00	7,434.08	7,538.39	7,338.65	73.85	36.29	-2.16	-228.16	4,336.33	2,315.01	2,205.27	109.73	21.097	
8,550.00	7,466.74	7,572.37	7,372.63	73.87	36.37	-9.03	-228.32	4,336.44	2,277.42	2,167.61	109.81	20.740	
8,600.00	7,496.72	7,601.08	7,401.34	73.85	36.45	-16.40	-228.45	4,336.52	2,237.96	2,128.13	109.82	20.378	
8,650.00	7,523.80	7,626.47	7,426.73	73.79	36.51	-24.47	-228.59	4,336.61	2,196.96	2,087.18	109.78	20.012	
8,700.00	7,547.77	7,649.04	7,449.30	73.70	36.56	-33.39	-228.71	4,336.72	2,154.77	2,045.08	109.69	19.645	
8,750.00	7,568.45	7,668.59	7,468.85	73.58	36.61	-43.11	-228.82	4,336.83	2,111.74	2,002.20	109.54	19.279	
8,800.00	7,585.69	7,686.29	7,486.54	73.43	36.66	-53.38	-228.93	4,336.95	2,068.26	1,958.92	109.33	18.917	
8,850.00	7,599.35	7,700.73	7,500.99	73.26	36.69	-63.62	-229.01	4,337.04	2,024.71	1,915.63	109.07	18.563	
8,900.00	7,609.33	7,711.32	7,511.58	73.07	36.72	-73.16	-229.06	4,337.12	1,981.51	1,872.76	108.75	18.220	
8,950.00	7,615.55	7,718.00	7,518.25	72.87	36.73	-81.51	-229.09	4,337.16	1,939.09	1,830.71	108.38	17.892	
9,000.00	7,617.97	7,720.72	7,520.98	72.65	36.74	-88.43	-229.10	4,337.18	1,897.87	1,789.93	107.94	17.583	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,006.60	7,618.00	7,720.79	7,521.05	72.62	36.74	-89.24	-229.10	4,337.18	1,892.54	1,784.66	107.88	17.544	
9,100.00	7,618.00	7,721.21	7,521.47	72.22	36.74	-89.26	-229.10	4,337.19	1,818.18	1,711.25	106.93	17.004	
9,200.00	7,618.00	7,721.67	7,521.92	71.80	36.74	-89.28	-229.11	4,337.19	1,740.60	1,634.83	105.77	16.457	
9,300.00	7,618.00	7,722.12	7,522.37	71.41	36.74	-89.30	-229.11	4,337.19	1,665.41	1,560.98	104.43	15.947	
9,400.00	7,618.00	7,722.56	7,522.82	71.04	36.74	-89.33	-229.11	4,337.20	1,592.96	1,490.05	102.90	15.480	
9,500.00	7,618.00	7,723.01	7,523.27	70.68	36.74	-89.35	-229.11	4,337.20	1,523.62	1,422.47	101.15	15.063	
9,600.00	7,618.00	7,723.45	7,523.71	70.35	36.74	-89.37	-229.11	4,337.20	1,457.85	1,358.70	99.15	14.703	
9,700.00	7,618.00	7,723.89	7,524.15	70.04	36.75	-89.39	-229.12	4,337.21	1,396.15	1,299.25	96.90	14.408	
9,800.00	7,618.00	7,724.32	7,524.58	69.75	36.75	-89.42	-229.12	4,337.21	1,339.08	1,244.70	94.38	14.189	
9,900.00	7,618.00	7,724.76	7,525.01	69.47	36.75	-89.44	-229.12	4,337.21	1,287.26	1,195.65	91.61	14.052	
10,000.00	7,618.00	7,725.19	7,525.44	69.22	36.75	-89.46	-229.12	4,337.22	1,241.35	1,152.71	88.64	14.005	SF
10,100.00	7,618.00	7,725.61	7,525.87	68.99	36.75	-89.48	-229.12	4,337.22	1,202.02	1,116.46	85.56	14.049	
10,200.00	7,618.00	7,726.04	7,526.29	68.78	36.75	-89.50	-229.13	4,337.22	1,169.94	1,087.43	82.52	14.178	
10,300.00	7,618.00	7,726.46	7,526.72	68.59	36.75	-89.53	-229.13	4,337.23	1,145.72	1,066.01	79.71	14.373	
10,400.00	7,618.00	7,726.88	7,527.13	68.42	36.75	-89.55	-229.13	4,337.23	1,129.86	1,052.47	77.38	14.601	
10,500.00	7,618.00	7,727.29	7,527.55	68.28	36.75	-89.57	-229.13	4,337.23	1,122.71	1,046.96	75.76	14.820	
10,530.48	7,618.00	7,727.42	7,527.68	68.24	36.75	-89.58	-229.13	4,337.23	1,122.30	1,046.87	75.43	14.878	CC, ES
10,600.00	7,618.00	7,727.71	7,527.96	68.16	36.75	-89.59	-229.13	4,337.24	1,124.45	1,049.47	74.98	14.997	
10,700.00	7,618.00	7,728.12	7,528.37	68.06	36.76	-89.61	-229.13	4,337.24	1,135.03	1,059.95	75.08	15.117	
10,800.00	7,618.00	7,728.53	7,528.78	67.99	36.76	-89.63	-229.14	4,337.24	1,154.21	1,078.24	75.97	15.193	
10,900.00	7,618.00	7,728.93	7,529.19	67.95	36.76	-89.65	-229.14	4,337.24	1,181.56	1,104.10	77.46	15.253	
11,000.00	7,618.00	7,729.33	7,529.59	67.95	36.76	-89.67	-229.14	4,337.25	1,216.55	1,137.18	79.37	15.328	
11,100.00	7,618.00	7,729.73	7,529.99	67.97	36.76	-89.69	-229.14	4,337.25	1,258.53	1,177.04	81.49	15.443	
11,200.00	7,618.00	7,730.13	7,530.39	68.04	36.76	-89.71	-229.14	4,337.25	1,306.83	1,223.12	83.71	15.612	
11,300.00	7,618.00	7,730.53	7,530.78	68.15	36.76	-89.73	-229.14	4,337.26	1,360.77	1,274.87	85.90	15.841	
11,400.00	7,618.00	7,730.92	7,531.18	68.30	36.76	-89.75	-229.15	4,337.26	1,419.72	1,331.70	88.02	16.130	
11,500.00	7,618.00	7,731.31	7,531.57	68.50	36.76	-89.77	-229.15	4,337.26	1,483.07	1,393.07	90.01	16.477	
11,600.00	7,618.00	7,731.70	7,531.95	68.75	36.76	-89.79	-229.15	4,337.26	1,550.29	1,458.44	91.86	16.877	
11,700.00	7,618.00	7,732.08	7,532.34	69.06	36.77	-89.81	-229.15	4,337.27	1,620.90	1,527.34	93.56	17.325	
11,800.00	7,618.00	7,732.47	7,532.72	69.44	36.77	-89.83	-229.15	4,337.27	1,694.46	1,599.35	95.11	17.815	
11,900.00	7,618.00	7,732.85	7,533.10	69.88	36.77	-89.85	-229.15	4,337.27	1,770.62	1,674.10	96.53	18.343	
12,000.00	7,618.00	7,733.23	7,533.48	70.39	36.77	-89.87	-229.16	4,337.28	1,849.06	1,751.24	97.81	18.904	
12,100.00	7,618.00	7,733.60	7,533.86	70.97	36.77	-89.89	-229.16	4,337.28	1,929.48	1,830.50	98.98	19.494	
12,200.00	7,618.00	7,733.98	7,534.23	71.63	36.77	-89.91	-229.16	4,337.28	2,011.67	1,911.63	100.04	20.110	
12,300.00	7,618.00	7,734.35	7,534.60	72.35	36.77	-89.93	-229.16	4,337.28	2,095.40	1,994.41	100.99	20.748	
12,400.00	7,618.00	7,734.72	7,534.97	73.15	36.77	-89.95	-229.16	4,337.29	2,180.50	2,078.64	101.87	21.406	
12,500.00	7,618.00	7,735.08	7,535.34	74.01	36.77	-89.97	-229.16	4,337.29	2,266.83	2,164.17	102.66	22.081	
12,600.00	7,618.00	7,735.45	7,535.70	74.93	36.77	-89.98	-229.16	4,337.29	2,354.23	2,250.85	103.38	22.772	
12,700.00	7,618.00	7,735.81	7,536.07	75.91	36.77	-90.00	-229.17	4,337.30	2,442.60	2,338.56	104.04	23.477	
12,800.00	7,618.00	7,736.17	7,536.43	76.95	36.78	-90.02	-229.17	4,337.30	2,531.84	2,427.19	104.65	24.194	
12,900.00	7,618.00	7,736.53	7,536.79	78.04	36.78	-90.04	-229.17	4,337.30	2,621.85	2,516.65	105.20	24.923	
13,000.00	7,618.00	7,736.88	7,537.14	79.16	36.78	-90.06	-229.17	4,337.30	2,712.56	2,606.85	105.71	25.661	
13,100.00	7,618.00	7,737.24	7,537.50	80.33	36.78	-90.08	-229.17	4,337.31	2,803.90	2,697.73	106.18	26.408	
13,200.00	7,618.00	7,737.59	7,537.85	81.54	36.78	-90.09	-229.17	4,337.31	2,895.82	2,789.21	106.61	27.163	
13,300.00	7,618.00	7,737.94	7,538.20	82.78	36.78	-90.11	-229.17	4,337.31	2,988.26	2,881.25	107.01	27.925	
13,400.00	7,618.00	7,738.29	7,538.54	84.05	36.78	-90.13	-229.18	4,337.31	3,081.16	2,973.78	107.38	28.694	
13,500.00	7,618.00	7,738.63	7,538.89	85.35	36.78	-90.15	-229.18	4,337.32	3,174.50	3,066.78	107.72	29.469	
13,600.00	7,618.00	7,738.98	7,539.23	86.67	36.78	-90.17	-229.18	4,337.32	3,268.23	3,160.19	108.04	30.249	
13,700.00	7,618.00	7,739.32	7,539.58	88.02	36.78	-90.18	-229.18	4,337.32	3,362.33	3,253.98	108.34	31.034	
13,800.00	7,618.00	7,739.66	7,539.91	89.38	36.78	-90.20	-229.18	4,337.33	3,456.75	3,348.13	108.62	31.823	
13,900.00	7,618.00	7,740.00	7,540.25	90.77	36.78	-90.22	-229.18	4,337.33	3,551.48	3,442.60	108.89	32.617	
14,000.00	7,618.00	7,740.33	7,540.59	92.17	36.79	-90.23	-229.18	4,337.33	3,646.50	3,537.36	109.13	33.414	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,618.00	7,740.67	7,540.92	93.59	36.79	-90.25	-229.18	4,337.33	3,741.77	3,632.41	109.36	34.214	
14,200.00	7,618.00	7,741.00	7,541.25	95.02	36.79	-90.27	-229.19	4,337.34	3,837.28	3,727.70	109.58	35.018	
14,300.00	7,618.00	7,741.33	7,541.58	96.47	36.79	-90.29	-229.19	4,337.34	3,933.02	3,823.23	109.79	35.824	
14,400.00	7,618.00	7,741.66	7,541.91	97.93	36.79	-90.30	-229.19	4,337.34	4,028.96	3,918.98	109.98	36.634	
14,500.00	7,618.00	7,741.98	7,542.24	99.41	36.79	-90.32	-229.19	4,337.34	4,125.09	4,014.93	110.16	37.445	
14,600.00	7,618.00	7,742.31	7,542.56	100.89	36.79	-90.33	-229.19	4,337.35	4,221.41	4,111.07	110.34	38.259	
14,700.00	7,618.00	7,742.63	7,542.88	102.38	36.79	-90.35	-229.19	4,337.35	4,317.89	4,207.39	110.50	39.074	
14,800.00	7,618.00	7,742.95	7,543.20	103.89	36.79	-90.37	-229.19	4,337.35	4,414.53	4,303.87	110.66	39.892	
14,900.00	7,618.00	7,743.27	7,543.52	105.40	36.79	-90.38	-229.19	4,337.35	4,511.32	4,400.50	110.81	40.711	
15,000.00	7,618.00	7,743.58	7,543.84	106.92	36.79	-90.40	-229.20	4,337.36	4,608.24	4,497.28	110.96	41.532	
15,100.00	7,618.00	7,743.90	7,544.16	108.45	36.79	-90.42	-229.20	4,337.36	4,705.29	4,594.20	111.09	42.355	
15,200.00	7,618.00	7,744.21	7,544.47	109.99	36.79	-90.43	-229.20	4,337.36	4,802.46	4,691.24	111.22	43.178	
15,300.00	7,618.00	7,744.52	7,544.78	111.54	36.80	-90.45	-229.20	4,337.36	4,899.75	4,788.40	111.35	44.003	
15,400.00	7,618.00	7,744.83	7,545.09	113.09	36.80	-90.46	-229.20	4,337.37	4,997.14	4,885.67	111.47	44.829	
15,500.00	7,618.00	7,745.14	7,545.40	114.65	36.80	-90.48	-229.20	4,337.37	5,094.64	4,983.05	111.59	45.656	
15,600.00	7,618.00	7,745.45	7,545.71	116.21	36.80	-90.50	-229.20	4,337.37	5,192.23	5,080.53	111.70	46.484	
15,700.00	7,618.00	7,745.75	7,546.01	117.78	36.80	-90.51	-229.20	4,337.37	5,289.90	5,178.10	111.81	47.313	
15,800.00	7,618.00	7,746.06	7,546.31	119.36	36.80	-90.53	-229.20	4,337.37	5,387.67	5,275.76	111.91	48.143	
15,900.00	7,618.00	7,746.36	7,546.61	120.94	36.80	-90.54	-229.21	4,337.38	5,485.51	5,373.50	112.01	48.973	
16,000.00	7,618.00	7,746.66	7,546.91	122.53	36.80	-90.56	-229.21	4,337.38	5,583.44	5,471.33	112.11	49.805	
16,100.00	7,618.00	7,746.96	7,547.21	124.12	36.80	-90.57	-229.21	4,337.38	5,681.43	5,569.23	112.20	50.636	
16,200.00	7,618.00	7,747.25	7,547.51	125.72	36.80	-90.59	-229.21	4,337.38	5,779.49	5,667.20	112.29	51.468	
16,300.00	7,618.00	7,747.55	7,547.80	127.32	36.80	-90.60	-229.21	4,337.39	5,877.62	5,765.24	112.38	52.301	
16,400.00	7,618.00	7,747.84	7,548.10	128.93	36.80	-90.62	-229.21	4,337.39	5,975.81	5,863.34	112.47	53.134	
16,500.00	7,618.00	7,748.13	7,548.39	130.54	36.80	-90.63	-229.21	4,337.39	6,074.06	5,961.51	112.55	53.968	
16,600.00	7,618.00	7,748.42	7,548.68	132.15	36.80	-90.65	-229.21	4,337.39	6,172.37	6,059.73	112.63	54.801	
16,700.00	7,618.00	7,748.71	7,548.97	133.77	36.81	-90.66	-229.21	4,337.40	6,270.72	6,158.01	112.71	55.636	
16,800.00	7,618.00	7,749.00	7,549.25	135.39	36.81	-90.68	-229.22	4,337.40	6,369.13	6,256.35	112.79	56.470	
16,900.00	7,618.00	7,749.28	7,549.54	137.01	36.81	-90.69	-229.22	4,337.40	6,467.59	6,354.73	112.86	57.305	
17,000.00	7,618.00	7,749.57	7,549.82	138.64	36.81	-90.71	-229.22	4,337.40	6,566.10	6,453.16	112.94	58.139	
17,100.00	7,618.00	7,749.85	7,550.11	140.27	36.81	-90.72	-229.22	4,337.40	6,664.65	6,551.64	113.01	58.974	
17,200.00	7,618.00	7,750.13	7,550.39	141.91	36.81	-90.73	-229.22	4,337.41	6,763.24	6,650.16	113.08	59.809	
17,300.00	7,618.00	7,750.41	7,550.67	143.55	36.81	-90.75	-229.22	4,337.41	6,861.87	6,748.72	113.15	60.644	
17,400.00	7,618.00	7,750.69	7,550.95	145.19	36.81	-90.76	-229.22	4,337.41	6,960.55	6,847.33	113.22	61.479	
17,500.00	7,618.00	7,750.97	7,551.22	146.83	36.81	-90.78	-229.22	4,337.41	7,059.25	6,945.97	113.28	62.315	
17,600.00	7,618.00	7,751.24	7,551.50	148.48	36.81	-90.79	-229.22	4,337.42	7,158.00	7,044.65	113.35	63.150	
17,700.00	7,618.00	7,751.51	7,551.77	150.13	36.81	-90.80	-229.22	4,337.42	7,256.78	7,143.37	113.41	63.985	
17,800.00	7,618.00	7,751.79	7,552.04	151.78	36.81	-90.82	-229.23	4,337.42	7,355.59	7,242.11	113.48	64.820	
17,900.00	7,618.00	7,752.06	7,552.31	153.43	36.81	-90.83	-229.23	4,337.42	7,454.44	7,340.90	113.54	65.655	
18,000.00	7,618.00	7,752.33	7,552.58	155.09	36.81	-90.85	-229.23	4,337.42	7,553.31	7,439.71	113.60	66.489	
18,100.00	7,618.00	7,752.59	7,552.85	156.75	36.81	-90.86	-229.23	4,337.43	7,652.21	7,538.55	113.66	67.324	
18,200.00	7,618.00	7,752.86	7,553.12	158.41	36.82	-90.87	-229.23	4,337.43	7,751.15	7,637.42	113.72	68.159	
18,300.00	7,618.00	7,753.13	7,553.38	160.07	36.82	-90.89	-229.23	4,337.43	7,850.11	7,736.32	113.78	68.993	
18,400.00	7,618.00	7,753.39	7,553.65	161.74	36.82	-90.90	-229.23	4,337.43	7,949.09	7,835.25	113.84	69.827	
18,500.00	7,618.00	7,753.65	7,553.91	163.41	36.82	-90.91	-229.23	4,337.43	8,048.10	7,934.20	113.90	70.661	
18,600.00	7,618.00	7,753.91	7,554.17	165.08	36.82	-90.93	-229.23	4,337.44	8,147.14	8,033.18	113.95	71.495	
18,700.00	7,618.00	7,754.17	7,554.43	166.75	36.82	-90.94	-229.23	4,337.44	8,246.19	8,132.18	114.01	72.328	
18,711.30	7,618.00	7,754.20	7,554.46	166.94	36.82	-90.94	-229.23	4,337.44	8,257.39	8,143.37	114.02	72.422	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	133.98	-2,069.43	2,144.16	2,980.30				
100.00	100.00	70.42	70.42	0.13	0.11	133.99	-2,069.33	2,143.97	2,979.77	2,979.52	0.25	N/A	
200.00	200.00	183.84	183.83	0.49	0.42	133.99	-2,068.77	2,143.06	2,978.83	2,977.92	0.91	3,264.538	
300.00	300.00	298.94	298.92	0.85	0.83	133.99	-2,067.78	2,142.04	2,977.61	2,975.93	1.68	1,768.766	
400.00	400.00	394.51	394.48	1.21	1.17	133.99	-2,066.79	2,141.03	2,976.13	2,973.75	2.38	1,248.304	
500.00	500.00	484.63	484.59	1.57	1.50	133.98	-2,065.68	2,140.56	2,974.90	2,971.84	3.06	971.339	
600.00	600.00	644.73	644.65	1.93	2.07	133.96	-2,062.30	2,138.92	2,972.62	2,968.63	3.99	744.444	
700.00	700.00	765.13	764.97	2.29	2.50	133.94	-2,058.69	2,136.62	2,969.15	2,964.37	4.78	620.794	
800.00	800.00	855.59	855.37	2.64	2.83	133.91	-2,055.57	2,135.11	2,965.55	2,960.09	5.47	542.595	
900.00	900.00	1,731.13	1,716.20	3.00	6.47	133.56	-1,946.75	2,047.13	2,953.93	2,945.06	8.87	333.020	
1,000.00	999.98	2,002.28	1,972.89	3.36	8.01	76.98	-1,881.36	1,989.49	2,921.56	2,911.40	10.17	287.368	
1,100.00	1,099.84	2,155.37	2,115.65	3.71	8.98	77.82	-1,839.58	1,953.29	2,884.45	2,873.38	11.07	260.620	
1,200.00	1,199.45	2,218.71	2,174.62	4.07	9.40	78.71	-1,822.34	1,937.88	2,846.27	2,834.59	11.68	243.747	
1,300.00	1,298.70	2,292.09	2,243.20	4.44	9.88	79.68	-1,802.96	1,920.39	2,808.36	2,796.03	12.33	227.775	
1,400.00	1,397.47	2,376.69	2,322.37	4.82	10.44	80.77	-1,781.30	1,899.92	2,770.24	2,757.21	13.03	212.570	
1,500.00	1,495.62	2,461.37	2,401.68	5.22	11.00	81.94	-1,759.23	1,880.08	2,731.91	2,718.15	13.75	198.627	
1,600.00	1,593.06	2,552.03	2,486.63	5.65	11.60	83.20	-1,735.16	1,859.51	2,693.42	2,678.90	14.52	185.511	
1,700.00	1,689.64	2,659.35	2,586.98	6.11	12.33	84.68	-1,706.61	1,834.38	2,654.17	2,638.81	15.36	172.753	
1,800.00	1,785.27	2,740.73	2,663.05	6.61	12.88	86.10	-1,685.04	1,815.13	2,614.79	2,598.63	16.16	161.772	
1,900.00	1,879.82	2,817.13	2,734.56	7.15	13.40	87.55	-1,664.59	1,797.66	2,575.85	2,558.86	16.99	151.612	
2,000.00	1,973.17	2,959.35	2,867.22	7.73	14.40	89.71	-1,626.11	1,763.77	2,536.40	2,518.36	18.05	140.532	
2,100.00	2,065.21	3,063.66	2,963.84	8.37	15.15	91.68	-1,596.54	1,737.89	2,495.95	2,476.90	19.05	131.037	
2,200.00	2,155.84	3,133.43	3,028.43	9.07	15.66	93.35	-1,576.87	1,720.33	2,456.17	2,436.15	20.01	122.722	
2,300.00	2,244.94	3,192.00	3,082.83	9.82	16.08	94.92	-1,560.91	1,705.62	2,418.03	2,397.01	21.02	115.040	
2,400.00	2,332.39	3,279.19	3,163.91	10.64	16.71	96.91	-1,537.16	1,684.04	2,381.35	2,359.19	22.16	107.452	
2,500.00	2,418.11	3,362.21	3,241.00	11.53	17.31	98.89	-1,514.16	1,663.57	2,345.93	2,322.56	23.37	100.398	
2,558.91	2,467.74	3,414.83	3,289.81	12.08	17.70	100.15	-1,499.61	1,650.34	2,325.78	2,301.66	24.12	96.436	
2,600.00	2,502.13	3,453.66	3,325.77	12.47	17.98	100.78	-1,488.76	1,640.49	2,311.95	2,287.29	24.66	93.763	
2,700.00	2,585.83	3,562.47	3,426.16	13.45	18.80	102.57	-1,457.56	1,612.45	2,278.72	2,252.69	26.02	87.565	
2,800.00	2,669.53	3,621.54	3,480.55	14.44	19.24	103.55	-1,440.22	1,597.22	2,246.56	2,219.23	27.33	82.192	
2,900.00	2,753.22	3,675.70	3,530.60	15.46	19.65	104.46	-1,424.54	1,583.73	2,216.61	2,187.94	28.67	77.323	
3,000.00	2,836.92	3,725.52	3,576.84	16.48	20.01	105.31	-1,410.51	1,571.61	2,189.06	2,159.04	30.02	72.919	
3,100.00	2,920.62	3,786.66	3,633.83	17.52	20.46	106.36	-1,393.86	1,557.02	2,163.99	2,132.57	31.41	68.885	
3,200.00	3,004.32	3,875.63	3,716.74	18.56	21.10	107.90	-1,369.33	1,536.05	2,140.57	2,107.70	32.87	65.126	
3,300.00	3,088.01	3,967.68	3,802.13	19.61	21.78	109.54	-1,343.72	1,513.13	2,118.28	2,083.93	34.34	61.678	
3,400.00	3,171.71	4,042.70	3,871.65	20.67	22.34	110.89	-1,322.62	1,494.44	2,097.65	2,061.84	35.81	58.571	
3,500.00	3,255.41	4,108.88	3,933.09	21.73	22.82	112.09	-1,303.88	1,478.48	2,079.09	2,041.81	37.28	55.772	
3,600.00	3,339.10	4,175.48	3,995.05	22.80	23.31	113.29	-1,285.16	1,462.81	2,062.79	2,024.04	38.75	53.233	
3,700.00	3,422.80	4,245.88	4,060.62	23.87	23.82	114.58	-1,265.72	1,446.10	2,048.78	2,008.55	40.23	50.928	
3,800.00	3,506.50	4,341.39	4,149.44	24.94	24.52	116.34	-1,238.89	1,423.48	2,036.47	1,994.73	41.73	48.796	
3,900.00	3,590.20	4,416.32	4,218.99	26.02	25.07	117.74	-1,217.63	1,405.40	2,025.90	1,982.69	43.22	46.875	
4,000.00	3,673.89	4,481.68	4,279.65	27.10	25.55	118.96	-1,199.21	1,389.52	2,017.57	1,972.88	44.69	45.148	
4,100.00	3,757.59	4,541.23	4,335.06	28.18	25.99	120.08	-1,182.69	1,375.28	2,011.81	1,965.68	46.14	43.606	
4,200.00	3,841.29	4,595.45	4,385.72	29.26	26.38	121.10	-1,168.11	1,362.60	2,008.94	1,961.38	47.55	42.245	
4,246.70	3,880.38	4,619.77	4,408.51	29.77	26.55	121.55	-1,161.74	1,357.00	2,008.60	1,960.40	48.21	41.668	
4,300.00	3,924.99	4,646.19	4,433.35	30.35	26.73	122.04	-1,154.97	1,351.04	2,009.04	1,960.11	48.93	41.055	
4,400.00	4,008.68	4,704.00	4,487.94	31.44	27.13	123.10	-1,140.70	1,338.45	2,012.26	1,961.97	50.29	40.011	
4,500.00	4,092.38	4,747.44	4,529.18	32.52	27.40	123.89	-1,130.49	1,329.38	2,018.46	1,966.89	51.58	39.136	
4,600.00	4,176.08	4,798.00	4,577.38	33.62	27.73	124.80	-1,119.13	1,319.23	2,027.64	1,974.82	52.83	38.382	
4,700.00	4,259.77	4,844.32	4,621.79	34.71	28.00	125.62	-1,109.36	1,310.41	2,039.85	1,985.84	54.01	37.767	
4,800.00	4,343.47	4,893.00	4,668.74	35.80	28.29	126.46	-1,099.88	1,301.72	2,055.14	1,999.98	55.15	37.263	
4,900.00	4,427.17	4,953.58	4,727.43	36.89	28.62	127.48	-1,088.79	1,291.61	2,073.07	2,016.81	56.27	36.845	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,510.87	5,012.90	4,785.08	37.99	28.94	128.46	-1,078.38	1,282.31	2,093.24	2,035.91	57.33	36.513	
5,100.00	4,594.56	5,066.35	4,837.22	39.08	29.21	129.32	-1,069.68	1,274.41	2,115.88	2,057.56	58.32	36.279	
5,200.00	4,678.26	5,125.10	4,894.73	40.18	29.50	130.24	-1,060.85	1,266.22	2,140.89	2,081.61	59.28	36.114	
5,300.00	4,761.96	5,176.00	4,944.67	41.28	29.74	131.02	-1,053.68	1,259.51	2,168.01	2,107.85	60.17	36.033	
5,400.00	4,845.66	5,236.99	5,004.76	42.37	30.00	131.91	-1,045.97	1,252.53	2,197.28	2,136.25	61.03	36.002	
5,500.00	4,929.35	5,292.23	5,059.47	43.47	30.22	132.67	-1,040.05	1,247.59	2,228.72	2,166.89	61.83	36.044	
5,600.00	5,013.05	5,350.84	5,117.65	44.57	30.44	133.44	-1,034.61	1,243.23	2,262.06	2,199.46	62.60	36.134	
5,700.00	5,096.75	5,413.03	5,179.54	45.67	30.65	134.22	-1,029.70	1,239.50	2,297.11	2,233.77	63.34	36.264	
5,800.00	5,180.45	5,478.12	5,244.43	46.77	30.85	134.99	-1,025.41	1,236.64	2,333.66	2,269.59	64.07	36.425	
5,900.00	5,264.14	5,547.18	5,313.36	47.87	31.05	135.75	-1,021.71	1,234.84	2,371.48	2,306.70	64.78	36.609	
6,000.00	5,347.84	5,600.41	5,366.54	48.97	31.19	136.31	-1,019.57	1,234.13	2,410.69	2,345.31	65.38	36.870	
6,100.00	5,431.54	5,648.00	5,414.11	50.07	31.31	136.79	-1,018.38	1,233.70	2,451.59	2,385.66	65.93	37.182	
6,200.00	5,515.23	5,713.74	5,479.85	51.17	31.46	137.44	-1,017.56	1,233.25	2,493.90	2,427.35	66.55	37.474	
6,300.00	5,598.93	5,790.77	5,556.87	52.27	31.64	138.16	-1,017.27	1,232.85	2,537.30	2,470.09	67.21	37.751	
6,400.00	5,682.63	5,882.54	5,648.64	53.38	31.85	139.00	-1,016.90	1,232.76	2,580.99	2,513.04	67.94	37.987	
6,500.00	5,766.33	5,968.60	5,734.70	54.48	32.05	139.76	-1,016.14	1,232.23	2,624.87	2,556.23	68.64	38.243	
6,600.00	5,850.02	6,049.75	5,815.84	55.58	32.24	140.47	-1,015.41	1,231.55	2,669.23	2,599.93	69.29	38.520	
6,700.00	5,933.72	6,133.43	5,899.51	56.68	32.44	141.18	-1,014.62	1,230.75	2,713.97	2,644.01	69.96	38.794	
6,800.00	6,017.42	6,218.33	5,975.75	57.79	32.65	141.82	-1,013.98	1,229.91	2,759.20	2,688.60	70.60	39.085	
6,900.00	6,101.12	6,293.03	6,059.10	58.89	32.83	142.49	-1,013.36	1,228.92	2,804.90	2,733.68	71.22	39.383	
7,000.00	6,184.81	6,380.62	6,146.69	59.99	33.05	143.18	-1,012.68	1,227.92	2,850.89	2,779.00	71.89	39.658	
7,100.00	6,268.51	6,463.87	6,229.92	61.10	33.25	143.81	-1,011.98	1,227.07	2,897.11	2,824.59	72.52	39.947	
7,200.00	6,352.21	6,546.02	6,312.07	62.20	33.45	144.41	-1,011.44	1,226.45	2,943.68	2,870.53	73.15	40.242	
7,300.00	6,435.90	6,636.17	6,402.22	63.31	33.67	145.04	-1,011.04	1,226.21	2,990.51	2,916.70	73.82	40.513	
7,400.00	6,519.60	6,723.72	6,489.77	64.41	33.88	145.62	-1,010.68	1,226.66	3,037.32	2,962.85	74.47	40.788	
7,500.00	6,603.30	6,802.55	6,568.59	65.51	34.07	146.14	-1,010.30	1,226.65	3,084.52	3,009.46	75.06	41.094	
7,600.00	6,687.00	6,892.93	6,658.97	66.62	34.30	146.72	-1,009.57	1,226.37	3,131.84	3,056.12	75.72	41.360	
7,700.00	6,770.69	6,964.36	6,730.40	67.72	34.48	147.17	-1,009.06	1,226.05	3,179.53	3,103.25	76.27	41.687	
7,800.00	6,854.39	7,056.33	6,822.37	68.83	34.71	147.74	-1,008.55	1,225.71	3,227.51	3,150.57	76.94	41.949	
7,900.00	6,938.09	7,152.80	6,918.84	69.93	34.95	148.30	-1,007.86	1,225.77	3,275.42	3,197.79	77.63	42.192	
7,933.18	6,965.86	7,182.65	6,948.69	70.30	35.03	148.47	-1,007.63	1,225.89	3,291.29	3,213.44	77.85	42.279	
7,950.00	6,980.00	7,197.56	6,963.59	70.49	35.07	145.80	-1,007.50	1,225.94	3,299.15	3,221.20	77.96	42.321	
8,000.00	7,022.68	7,242.53	7,008.56	71.01	35.18	137.38	-1,007.08	1,226.08	3,320.26	3,241.98	78.28	42.414	
8,050.00	7,066.06	7,282.90	7,048.92	71.51	35.29	128.30	-1,006.67	1,226.15	3,337.93	3,259.35	78.58	42.477	
8,100.00	7,109.82	7,321.66	7,087.68	71.97	35.39	118.90	-1,006.26	1,226.09	3,352.11	3,273.24	78.87	42.502	
8,150.00	7,153.63	7,364.54	7,130.56	72.38	35.50	109.67	-1,005.79	1,225.87	3,362.73	3,283.56	79.18	42.472	
8,200.00	7,197.14	7,415.96	7,181.98	72.74	35.64	101.15	-1,005.03	1,225.45	3,369.64	3,290.12	79.53	42.372	
8,250.00	7,240.04	7,461.37	7,227.37	73.05	35.76	93.59	-1,004.17	1,224.93	3,372.81	3,292.98	79.83	42.252	
8,300.00	7,281.99	7,499.90	7,265.89	73.31	35.87	87.15	-1,003.37	1,224.37	3,372.36	3,292.29	80.07	42.116	
8,350.00	7,322.67	7,537.01	7,302.99	73.52	35.98	81.93	-1,002.56	1,223.71	3,368.36	3,288.06	80.30	41.950	
8,400.00	7,361.77	7,573.51	7,339.48	73.68	36.08	77.84	-1,001.81	1,223.07	3,360.86	3,280.36	80.50	41.751	
8,450.00	7,399.01	7,608.51	7,374.47	73.78	36.18	74.78	-1,001.21	1,222.62	3,349.96	3,269.29	80.68	41.522	
8,500.00	7,434.08	7,645.28	7,411.23	73.85	36.28	72.68	-1,000.71	1,222.32	3,335.76	3,254.91	80.85	41.257	
8,550.00	7,466.74	7,687.46	7,453.41	73.87	36.38	71.49	-1,000.44	1,222.57	3,318.31	3,237.26	81.05	40.942	
8,600.00	7,496.72	7,727.56	7,493.50	73.85	36.48	71.08	-1,000.50	1,223.46	3,297.75	3,216.52	81.23	40.598	
8,650.00	7,523.80	7,745.74	7,511.67	73.79	36.52	71.08	-1,000.59	1,223.94	3,274.34	3,193.08	81.26	40.295	
8,700.00	7,547.77	7,762.85	7,528.78	73.70	36.56	71.75	-1,000.68	1,224.33	3,248.34	3,167.06	81.28	39.967	
8,750.00	7,568.45	7,777.57	7,543.50	73.58	36.60	73.06	-1,000.74	1,224.61	3,219.93	3,138.66	81.27	39.619	
8,800.00	7,585.69	7,789.83	7,555.75	73.43	36.63	75.01	-1,000.80	1,224.80	3,189.32	3,108.07	81.25	39.252	
8,850.00	7,599.35	7,799.55	7,565.47	73.26	36.65	77.63	-1,000.84	1,224.93	3,156.73	3,075.51	81.22	38.868	
8,900.00	7,609.33	7,806.67	7,572.59	73.07	36.67	80.91	-1,000.87	1,225.01	3,122.37	3,041.20	81.17	38.467	
8,950.00	7,615.55	7,819.00	7,584.92	72.87	36.69	85.10	-1,000.93	1,225.12	3,086.50	3,005.33	81.17	38.025	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	7,819.00	7,584.92	72.65	36.69	89.73	-1,000.93	1,225.12	3,049.31	2,968.21	81.10	37.600	
9,006.60	7,618.00	7,819.00	7,584.92	72.62	36.69	90.40	-1,000.93	1,225.12	3,044.32	2,963.23	81.09	37.542	
9,100.00	7,618.00	7,819.00	7,584.92	72.22	36.69	90.40	-1,000.93	1,225.12	2,974.19	2,893.21	80.98	36.729	
9,200.00	7,618.00	7,819.00	7,584.92	71.80	36.69	90.40	-1,000.93	1,225.12	2,900.56	2,819.71	80.85	35.875	
9,300.00	7,618.00	7,819.00	7,584.92	71.41	36.69	90.40	-1,000.93	1,225.12	2,828.55	2,747.81	80.73	35.036	
9,400.00	7,618.00	7,819.00	7,584.92	71.04	36.69	90.40	-1,000.93	1,225.12	2,758.28	2,677.66	80.62	34.215	
9,500.00	7,618.00	7,819.00	7,584.92	70.68	36.69	90.40	-1,000.93	1,225.12	2,689.90	2,609.39	80.50	33.413	
9,600.00	7,618.00	7,819.00	7,584.92	70.35	36.69	90.40	-1,000.93	1,225.12	2,623.54	2,543.14	80.40	32.631	
9,700.00	7,618.00	7,819.00	7,584.92	70.04	36.69	90.40	-1,000.93	1,225.12	2,559.38	2,479.07	80.31	31.870	
9,800.00	7,618.00	7,819.00	7,584.92	69.75	36.69	90.40	-1,000.93	1,225.12	2,497.57	2,417.34	80.23	31.132	
9,900.00	7,618.00	7,819.00	7,584.92	69.47	36.69	90.40	-1,000.93	1,225.12	2,438.30	2,358.14	80.16	30.418	
10,000.00	7,618.00	7,819.00	7,584.92	69.22	36.69	90.40	-1,000.93	1,225.12	2,381.75	2,301.64	80.11	29.731	
10,100.00	7,618.00	7,819.00	7,584.92	68.99	36.69	90.40	-1,000.93	1,225.12	2,328.12	2,248.04	80.08	29.072	
10,200.00	7,618.00	7,819.00	7,584.92	68.78	36.69	90.40	-1,000.93	1,225.12	2,277.63	2,197.55	80.08	28.443	
10,300.00	7,618.00	7,819.00	7,584.92	68.59	36.69	90.40	-1,000.93	1,225.12	2,230.48	2,150.38	80.10	27.847	
10,400.00	7,618.00	7,819.00	7,584.92	68.42	36.69	90.40	-1,000.93	1,225.12	2,186.88	2,106.74	80.15	27.286	
10,500.00	7,618.00	7,819.00	7,584.92	68.28	36.69	90.40	-1,000.93	1,225.12	2,147.07	2,066.84	80.23	26.762	
10,600.00	7,618.00	7,819.00	7,584.92	68.16	36.69	90.40	-1,000.93	1,225.12	2,111.24	2,030.90	80.34	26.279	
10,700.00	7,618.00	7,819.00	7,584.92	68.06	36.69	90.40	-1,000.93	1,225.12	2,079.61	1,999.12	80.48	25.839	
10,800.00	7,618.00	7,819.00	7,584.92	67.99	36.69	90.40	-1,000.93	1,225.12	2,052.36	1,971.71	80.65	25.446	
10,900.00	7,618.00	7,819.00	7,584.92	67.95	36.69	90.40	-1,000.93	1,225.12	2,029.69	1,948.83	80.86	25.103	
11,000.00	7,618.00	7,819.00	7,584.92	67.95	36.69	90.40	-1,000.93	1,225.12	2,011.73	1,930.65	81.08	24.811	
11,100.00	7,618.00	7,819.00	7,584.92	67.97	36.69	90.40	-1,000.93	1,225.12	1,998.63	1,917.30	81.33	24.575	
11,200.00	7,618.00	7,819.00	7,584.92	68.04	36.69	90.40	-1,000.93	1,225.12	1,990.46	1,908.87	81.59	24.396	
11,300.00	7,618.00	7,819.00	7,584.92	68.15	36.69	90.40	-1,000.93	1,225.12	1,987.30	1,905.44	81.86	24.276	
11,312.83	7,618.00	7,819.00	7,584.92	68.16	36.69	90.40	-1,000.93	1,225.12	1,987.26	1,905.36	81.90	24.264	CC, ES
11,400.00	7,618.00	7,819.00	7,584.92	68.30	36.69	90.40	-1,000.93	1,225.12	1,989.17	1,907.03	82.14	24.217	SF
11,500.00	7,618.00	7,819.00	7,584.92	68.50	36.69	90.40	-1,000.93	1,225.12	1,996.06	1,913.64	82.42	24.218	
11,600.00	7,618.00	7,819.00	7,584.92	68.75	36.69	90.40	-1,000.93	1,225.12	2,007.90	1,925.21	82.70	24.281	
11,700.00	7,618.00	7,819.00	7,584.92	69.06	36.69	90.40	-1,000.93	1,225.12	2,024.63	1,941.66	82.96	24.404	
11,800.00	7,618.00	7,821.60	7,587.52	69.44	36.70	90.48	-1,000.94	1,225.14	2,046.10	1,962.86	83.25	24.579	
11,900.00	7,618.00	7,821.95	7,587.87	69.88	36.70	90.49	-1,000.94	1,225.14	2,072.19	1,988.70	83.49	24.819	
12,000.00	7,618.00	7,822.30	7,588.23	70.39	36.70	90.50	-1,000.94	1,225.14	2,102.71	2,018.99	83.73	25.114	
12,100.00	7,618.00	7,822.66	7,588.58	70.97	36.70	90.51	-1,000.94	1,225.15	2,137.48	2,053.54	83.95	25.462	
12,200.00	7,618.00	7,823.02	7,588.94	71.63	36.70	90.52	-1,000.95	1,225.15	2,176.30	2,092.14	84.15	25.861	
12,300.00	7,618.00	7,823.39	7,589.31	72.35	36.70	90.53	-1,000.95	1,225.15	2,218.94	2,134.60	84.35	26.308	
12,400.00	7,618.00	7,823.76	7,589.68	73.15	36.71	90.54	-1,000.95	1,225.15	2,265.20	2,180.68	84.52	26.800	
12,500.00	7,618.00	7,824.13	7,590.05	74.01	36.71	90.55	-1,000.95	1,225.16	2,314.86	2,230.17	84.69	27.334	
12,600.00	7,618.00	7,824.51	7,590.43	74.93	36.71	90.56	-1,000.95	1,225.16	2,367.70	2,282.85	84.84	27.907	
12,700.00	7,618.00	7,824.89	7,590.81	75.91	36.71	90.57	-1,000.95	1,225.16	2,423.51	2,338.53	84.99	28.517	
12,800.00	7,618.00	7,825.27	7,591.20	76.95	36.71	90.58	-1,000.96	1,225.16	2,482.11	2,396.99	85.12	29.160	
12,900.00	7,618.00	7,825.66	7,591.58	78.04	36.71	90.59	-1,000.96	1,225.17	2,543.28	2,458.04	85.24	29.836	
13,000.00	7,618.00	7,826.06	7,591.98	79.16	36.71	90.60	-1,000.96	1,225.17	2,606.86	2,521.50	85.36	30.540	
13,100.00	7,618.00	7,826.45	7,592.37	80.33	36.71	90.62	-1,000.96	1,225.17	2,672.66	2,587.20	85.47	31.272	
13,200.00	7,618.00	7,826.86	7,592.78	81.54	36.71	90.63	-1,000.96	1,225.17	2,740.54	2,654.97	85.57	32.029	
13,300.00	7,618.00	7,827.26	7,593.18	82.78	36.71	90.64	-1,000.97	1,225.18	2,810.34	2,724.68	85.66	32.808	
13,400.00	7,618.00	7,827.67	7,593.59	84.05	36.72	90.65	-1,000.97	1,225.18	2,881.91	2,796.17	85.75	33.610	
13,500.00	7,618.00	7,828.09	7,594.01	85.35	36.72	90.66	-1,000.97	1,225.18	2,955.14	2,869.31	85.83	34.431	
13,600.00	7,618.00	7,828.51	7,594.43	86.67	36.72	90.68	-1,000.97	1,225.18	3,029.90	2,943.99	85.91	35.270	
13,700.00	7,618.00	7,828.93	7,594.85	88.02	36.72	90.69	-1,000.97	1,225.19	3,106.07	3,020.10	85.98	36.127	
13,800.00	7,618.00	7,829.36	7,595.28	89.38	36.72	90.70	-1,000.98	1,225.19	3,183.57	3,097.53	86.04	36.999	
13,900.00	7,618.00	7,829.79	7,595.71	90.77	36.72	90.71	-1,000.98	1,225.19	3,262.29	3,176.18	86.11	37.886	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,618.00	7,830.23	7,596.15	92.17	36.72	90.73	-1,000.98	1,225.20	3,342.15	3,255.98	86.17	38.786	
14,100.00	7,618.00	7,830.67	7,596.60	93.59	36.72	90.74	-1,000.98	1,225.20	3,423.07	3,336.84	86.23	39.699	
14,200.00	7,618.00	7,831.12	7,597.04	95.02	36.72	90.75	-1,000.98	1,225.20	3,504.97	3,418.69	86.28	40.623	
14,300.00	7,618.00	7,831.58	7,597.50	96.47	36.72	90.76	-1,000.99	1,225.20	3,587.79	3,501.46	86.33	41.559	
14,400.00	7,618.00	7,832.04	7,597.96	97.93	36.73	90.78	-1,000.99	1,225.21	3,671.47	3,585.09	86.38	42.504	
14,500.00	7,618.00	7,832.50	7,598.42	99.41	36.73	90.79	-1,000.99	1,225.21	3,755.94	3,669.51	86.43	43.459	
14,600.00	7,618.00	7,832.97	7,598.89	100.89	36.73	90.80	-1,000.99	1,225.21	3,841.16	3,754.69	86.47	44.422	
14,700.00	7,618.00	7,833.44	7,599.36	102.38	36.73	90.82	-1,001.00	1,225.21	3,927.08	3,840.56	86.51	45.393	
14,800.00	7,618.00	7,833.92	7,599.85	103.89	36.73	90.83	-1,001.00	1,225.22	4,013.65	3,927.09	86.55	46.372	
14,900.00	7,618.00	7,834.41	7,600.33	105.40	36.73	90.85	-1,001.00	1,225.22	4,100.83	4,014.23	86.59	47.358	
15,000.00	7,618.00	7,834.90	7,600.82	106.92	36.73	90.86	-1,001.00	1,225.22	4,188.58	4,101.95	86.63	48.350	
15,100.00	7,618.00	7,835.40	7,601.32	108.45	36.73	90.87	-1,001.01	1,225.22	4,276.87	4,190.20	86.67	49.348	
15,200.00	7,618.00	7,835.91	7,601.83	109.99	36.73	90.89	-1,001.01	1,225.23	4,365.66	4,278.96	86.70	50.352	
15,300.00	7,618.00	7,836.42	7,602.34	111.54	36.74	90.90	-1,001.01	1,225.23	4,454.94	4,368.20	86.74	51.360	
15,400.00	7,618.00	7,836.93	7,602.85	113.09	36.74	90.92	-1,001.01	1,225.23	4,544.65	4,457.88	86.77	52.374	
15,500.00	7,618.00	7,837.45	7,603.38	114.65	36.74	90.93	-1,001.02	1,225.23	4,634.79	4,547.98	86.81	53.392	
15,600.00	7,618.00	7,837.98	7,603.90	116.21	36.74	90.95	-1,001.02	1,225.24	4,725.33	4,638.49	86.84	54.415	
15,700.00	7,618.00	7,838.52	7,604.44	117.78	36.74	90.96	-1,001.02	1,225.24	4,816.23	4,729.36	86.87	55.441	
15,800.00	7,618.00	7,839.06	7,604.98	119.36	36.74	90.98	-1,001.03	1,225.24	4,907.50	4,820.59	86.90	56.471	
15,900.00	7,618.00	7,839.61	7,605.53	120.94	36.74	91.00	-1,001.03	1,225.24	4,999.09	4,912.16	86.93	57.504	
16,000.00	7,618.00	7,840.17	7,606.09	122.53	36.74	91.01	-1,001.03	1,225.25	5,091.01	5,004.04	86.97	58.540	
16,100.00	7,618.00	7,840.73	7,606.65	124.12	36.75	91.03	-1,001.04	1,225.25	5,183.22	5,096.22	87.00	59.580	
16,200.00	7,618.00	7,841.30	7,607.22	125.72	36.75	91.04	-1,001.04	1,225.25	5,275.72	5,188.69	87.03	60.621	
16,300.00	7,618.00	7,841.88	7,607.80	127.32	36.75	91.06	-1,001.04	1,225.25	5,368.48	5,281.42	87.06	61.666	
16,400.00	7,618.00	7,842.47	7,608.39	128.93	36.75	91.08	-1,001.05	1,225.26	5,461.50	5,374.41	87.09	62.712	
16,500.00	7,618.00	7,843.06	7,608.98	130.54	36.75	91.09	-1,001.05	1,225.26	5,554.77	5,467.65	87.12	63.761	
16,600.00	7,618.00	7,843.66	7,609.58	132.15	36.75	91.11	-1,001.05	1,225.26	5,648.26	5,561.11	87.15	64.811	
16,700.00	7,618.00	7,844.27	7,610.19	133.77	36.75	91.13	-1,001.06	1,225.26	5,741.97	5,654.79	87.18	65.863	
16,800.00	7,618.00	7,844.89	7,610.81	135.39	36.76	91.15	-1,001.06	1,225.27	5,835.89	5,748.68	87.21	66.917	
16,900.00	7,618.00	7,845.51	7,611.43	137.01	36.76	91.17	-1,001.06	1,225.27	5,930.01	5,842.77	87.24	67.972	
17,000.00	7,618.00	7,846.15	7,612.07	138.64	36.76	91.18	-1,001.07	1,225.27	6,024.32	5,937.05	87.27	69.029	
17,100.00	7,618.00	7,846.79	7,612.71	140.27	36.76	91.20	-1,001.07	1,225.27	6,118.81	6,031.51	87.30	70.086	
17,200.00	7,618.00	7,847.44	7,613.36	141.91	36.76	91.22	-1,001.07	1,225.27	6,213.48	6,126.14	87.34	71.145	
17,300.00	7,618.00	7,848.10	7,614.02	143.55	36.76	91.24	-1,001.08	1,225.28	6,308.30	6,220.94	87.37	72.205	
17,400.00	7,618.00	7,848.77	7,614.69	145.19	36.77	91.26	-1,001.08	1,225.28	6,403.29	6,315.89	87.40	73.265	
17,500.00	7,618.00	7,849.45	7,615.37	146.83	36.77	91.28	-1,001.09	1,225.28	6,498.42	6,410.99	87.43	74.327	
17,600.00	7,618.00	7,850.14	7,616.06	148.48	36.77	91.30	-1,001.09	1,225.28	6,593.70	6,506.24	87.46	75.389	
17,700.00	7,618.00	7,850.84	7,616.76	150.13	36.77	91.32	-1,001.10	1,225.29	6,689.12	6,601.62	87.50	76.451	
17,800.00	7,618.00	7,851.54	7,617.46	151.78	36.77	91.34	-1,001.10	1,225.29	6,784.67	6,697.14	87.53	77.514	
17,900.00	7,618.00	7,852.26	7,618.18	153.43	36.77	91.36	-1,001.10	1,225.29	6,880.34	6,792.78	87.56	78.577	
18,000.00	7,618.00	7,852.99	7,618.91	155.09	36.78	91.38	-1,001.11	1,225.29	6,976.14	6,888.54	87.60	79.641	
18,100.00	7,618.00	7,853.73	7,619.65	156.75	36.78	91.40	-1,001.11	1,225.29	7,072.05	6,984.42	87.63	80.704	
18,200.00	7,618.00	7,854.48	7,620.40	158.41	36.78	91.42	-1,001.12	1,225.29	7,168.07	7,080.41	87.66	81.768	
18,300.00	7,618.00	7,855.24	7,621.16	160.07	36.78	91.45	-1,001.12	1,225.30	7,264.21	7,176.51	87.70	82.832	
18,400.00	7,618.00	7,856.02	7,621.94	161.74	36.78	91.47	-1,001.13	1,225.30	7,360.44	7,272.71	87.73	83.896	
18,500.00	7,618.00	7,856.80	7,622.72	163.41	36.78	91.49	-1,001.13	1,225.30	7,456.77	7,369.01	87.77	84.960	
18,600.00	7,618.00	7,857.60	7,623.52	165.08	36.79	91.51	-1,001.14	1,225.30	7,553.20	7,465.40	87.80	86.023	
18,700.00	7,618.00	7,858.41	7,624.33	166.75	36.79	91.54	-1,001.15	1,225.30	7,649.72	7,561.88	87.84	87.087	
18,711.30	7,618.00	7,858.50	7,624.42	166.94	36.79	91.54	-1,001.15	1,225.30	7,660.64	7,572.79	87.84	87.207	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	134.15	-2,073.07	2,135.76	2,976.79				
100.00	100.00	61.54	61.54	0.13	0.10	134.15	-2,072.97	2,135.74	2,976.35	2,976.11	0.23	N/A	
200.00	200.00	165.70	165.69	0.49	0.36	134.14	-2,072.39	2,135.64	2,975.89	2,975.04	0.85	3,499.490	
300.00	300.00	264.51	264.51	0.85	0.71	134.13	-2,071.99	2,135.55	2,975.54	2,973.98	1.56	1,903.875	
400.00	400.00	371.85	371.85	1.21	1.09	134.13	-2,071.48	2,135.29	2,975.04	2,972.74	2.30	1,290.810	
500.00	500.00	611.30	611.14	1.57	1.95	134.20	-2,069.51	2,128.28	2,972.78	2,969.26	3.52	845.153	
600.00	600.00	732.00	731.38	1.93	2.39	134.34	-2,069.81	2,117.89	2,966.71	2,962.40	4.31	688.420	
700.00	700.00	820.90	819.79	2.29	2.73	134.49	-2,071.81	2,108.72	2,960.89	2,955.90	4.99	592.803	
800.00	800.00	897.39	895.72	2.64	3.02	134.66	-2,074.88	2,099.99	2,955.58	2,949.94	5.64	523.848	
900.00	900.00	965.38	963.07	3.00	3.29	134.83	-2,079.12	2,091.72	2,951.30	2,945.03	6.26	471.128	
1,000.00	999.98	1,031.65	1,028.53	3.36	3.56	77.92	-2,084.81	2,083.12	2,947.78	2,940.89	6.88	428.183	
1,100.00	1,099.84	1,083.54	1,079.64	3.71	3.77	78.20	-2,090.41	2,076.17	2,944.91	2,937.46	7.45	395.223	
1,200.00	1,199.45	1,139.00	1,134.18	4.07	4.00	78.53	-2,097.51	2,069.02	2,943.14	2,935.10	8.04	366.029	
1,300.00	1,298.70	1,178.03	1,172.49	4.44	4.17	78.77	-2,103.19	2,064.22	2,942.49	2,933.92	8.57	343.267	
1,301.44	1,300.13	1,178.69	1,173.14	4.44	4.17	78.78	-2,103.29	2,064.14	2,942.49	2,933.91	8.58	342.937	
1,400.00	1,397.47	1,233.00	1,226.36	4.82	4.40	79.13	-2,112.09	2,057.86	2,943.14	2,933.95	9.19	320.381	
1,500.00	1,495.62	1,262.00	1,254.72	5.22	4.53	79.31	-2,117.26	2,054.71	2,945.09	2,935.39	9.70	303.527	
1,600.00	1,593.06	1,317.07	1,308.47	5.65	4.77	79.69	-2,127.82	2,049.01	2,948.36	2,938.00	10.36	284.461	
1,700.00	1,689.64	1,364.72	1,354.86	6.11	4.98	80.02	-2,137.61	2,044.28	2,952.85	2,941.82	11.02	267.844	
1,800.00	1,785.27	1,408.32	1,397.16	6.61	5.18	80.32	-2,147.29	2,040.09	2,958.76	2,947.06	11.70	252.915	
1,900.00	1,879.82	1,433.00	1,421.04	7.15	5.29	80.42	-2,153.09	2,037.77	2,966.32	2,954.00	12.32	240.849	
2,000.00	1,973.17	1,485.03	1,471.21	7.73	5.54	80.80	-2,166.09	2,033.20	2,975.41	2,962.29	13.12	226.793	
2,100.00	2,065.21	1,527.00	1,511.51	8.37	5.74	81.07	-2,177.32	2,029.88	2,986.39	2,972.48	13.92	214.584	
2,200.00	2,155.84	1,554.71	1,538.04	9.07	5.88	81.14	-2,185.08	2,027.91	2,999.18	2,984.50	14.69	204.216	
2,300.00	2,244.94	1,588.15	1,569.98	9.82	6.05	81.27	-2,194.76	2,025.82	3,013.86	2,998.33	15.54	193.992	
2,400.00	2,332.39	1,622.00	1,602.22	10.64	6.22	81.37	-2,204.92	2,024.01	3,030.44	3,014.00	16.44	184.342	
2,500.00	2,418.11	1,678.47	1,655.96	11.53	6.51	81.75	-2,222.10	2,021.52	3,048.65	3,031.12	17.52	173.974	
2,558.91	2,467.74	1,712.94	1,688.78	12.08	6.68	81.99	-2,232.54	2,020.27	3,059.98	3,041.79	18.20	168.176	
2,600.00	2,502.13	1,768.65	1,741.92	12.47	6.97	82.74	-2,249.15	2,018.38	3,068.08	3,049.22	18.85	162.726	
2,700.00	2,585.83	1,846.23	1,816.14	13.45	7.38	83.77	-2,271.56	2,015.64	3,088.20	3,068.07	20.13	153.379	
2,800.00	2,669.53	1,896.77	1,864.50	14.44	7.65	84.43	-2,286.21	2,014.26	3,110.19	3,088.93	21.26	146.271	
2,900.00	2,753.22	2,000.94	1,964.36	15.46	8.20	85.78	-2,315.78	2,012.34	3,133.58	3,110.88	22.70	138.028	
3,000.00	2,836.92	2,063.97	2,024.94	16.48	8.53	86.57	-2,333.17	2,011.52	3,157.98	3,134.08	23.90	132.138	
3,100.00	2,920.62	2,134.26	2,092.45	17.52	8.91	87.46	-2,352.71	2,010.60	3,183.85	3,158.71	25.14	126.654	
3,200.00	3,004.32	2,188.00	2,143.97	18.56	9.20	88.14	-2,367.93	2,009.19	3,211.06	3,184.79	26.27	122.217	
3,300.00	3,088.01	2,241.73	2,195.39	19.61	9.51	88.82	-2,383.47	2,007.72	3,239.96	3,212.56	27.40	118.238	
3,400.00	3,171.71	2,287.55	2,239.14	20.67	9.77	89.39	-2,397.04	2,006.88	3,270.80	3,242.33	28.47	114.893	
3,500.00	3,255.41	2,391.02	2,338.32	21.73	10.34	90.63	-2,426.52	2,007.02	3,302.55	3,272.68	29.87	110.551	
3,600.00	3,339.10	2,441.09	2,386.33	22.80	10.62	91.22	-2,440.71	2,007.29	3,335.51	3,304.57	30.94	107.814	
3,700.00	3,422.80	2,506.85	2,449.22	23.87	10.99	92.00	-2,459.93	2,007.11	3,369.99	3,337.90	32.09	105.021	
3,800.00	3,506.50	2,585.66	2,524.65	24.94	11.44	92.92	-2,482.78	2,006.76	3,405.37	3,372.06	33.31	102.228	
3,900.00	3,590.20	2,646.34	2,582.77	26.02	11.78	93.61	-2,500.16	2,007.48	3,441.91	3,407.51	34.40	100.044	
4,000.00	3,673.89	2,876.05	2,803.73	27.10	13.08	96.23	-2,562.37	2,002.59	3,477.11	3,440.55	36.56	95.097	
4,100.00	3,757.59	2,919.18	2,845.27	28.18	13.32	96.73	-2,573.75	2,000.38	3,512.87	3,475.33	37.54	93.574	
4,200.00	3,841.29	2,971.36	2,895.51	29.26	13.62	97.32	-2,587.70	1,998.47	3,550.17	3,511.62	38.56	92.078	
4,300.00	3,924.99	3,032.50	2,954.41	30.35	13.97	97.99	-2,604.05	1,997.17	3,588.71	3,549.10	39.61	90.596	
4,400.00	4,008.68	3,128.81	3,047.21	31.44	14.51	99.03	-2,629.71	1,994.64	3,628.05	3,587.17	40.88	88.744	
4,500.00	4,092.38	3,179.17	3,095.65	32.52	14.81	99.58	-2,643.26	1,992.41	3,668.25	3,626.41	41.85	87.661	
4,600.00	4,176.08	3,232.28	3,146.62	33.62	15.11	100.17	-2,657.93	1,989.66	3,709.78	3,666.97	42.81	86.655	
4,700.00	4,259.77	3,324.81	3,235.45	34.71	15.66	101.17	-2,683.37	1,984.72	3,752.13	3,708.10	44.03	85.223	
4,800.00	4,343.47	3,385.37	3,293.64	35.80	16.01	101.81	-2,699.89	1,981.91	3,795.25	3,750.23	45.01	84.311	
4,900.00	4,427.17	3,438.81	3,345.00	36.89	16.32	102.36	-2,714.53	1,979.87	3,839.38	3,793.44	45.94	83.571	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,510.87	3,484.80	3,389.12	37.99	16.60	102.83	-2,727.38	1,978.23	3,884.73	3,837.92	46.80	83.002	
5,100.00	4,594.56	3,547.02	3,448.74	39.08	16.96	103.46	-2,745.07	1,976.23	3,931.19	3,883.43	47.76	82.307	
5,200.00	4,678.26	3,621.98	3,520.63	40.18	17.41	104.19	-2,766.24	1,974.59	3,978.32	3,929.52	48.80	81.520	
5,300.00	4,761.96	3,689.11	3,585.03	41.28	17.80	104.83	-2,785.18	1,973.74	4,026.15	3,976.38	49.78	80.886	
5,400.00	4,845.66	3,747.88	3,641.38	42.37	18.15	105.38	-2,801.85	1,973.09	4,074.76	4,024.08	50.68	80.400	
5,500.00	4,929.35	3,802.79	3,693.96	43.47	18.47	105.89	-2,817.63	1,972.05	4,124.24	4,072.69	51.55	80.008	
5,600.00	5,013.05	3,850.75	3,739.80	44.57	18.76	106.34	-2,831.67	1,970.45	4,174.67	4,122.32	52.35	79.741	
5,700.00	5,096.75	5,700.00	4,870.85	45.67	26.27	115.79	-3,027.78	1,942.52	4,217.36	4,155.62	61.74	68.312	
5,800.00	5,180.45	5,130.15	4,997.49	46.77	24.47	116.70	-3,032.28	1,940.80	4,248.97	4,188.43	60.54	70.180	
5,900.00	5,264.14	5,219.85	5,087.14	47.87	24.74	117.34	-3,035.03	1,939.78	4,280.80	4,219.22	61.57	69.522	
6,000.00	5,347.84	5,281.28	5,148.54	48.97	24.93	117.76	-3,037.05	1,939.11	4,313.32	4,250.83	62.49	69.021	
6,100.00	5,431.54	5,442.28	5,309.48	50.07	25.41	118.86	-3,041.03	1,938.45	4,345.55	4,281.78	63.77	68.145	
6,200.00	5,515.23	5,520.85	5,388.04	51.17	25.63	119.38	-3,042.47	1,938.65	4,377.83	4,313.09	64.74	67.624	
6,300.00	5,598.93	5,611.03	5,478.20	52.27	25.89	119.96	-3,044.06	1,938.89	4,410.51	4,344.77	65.74	67.089	
6,400.00	5,682.63	5,702.96	5,570.12	53.38	26.15	120.56	-3,045.53	1,939.04	4,443.51	4,376.77	66.74	66.576	
6,500.00	5,766.33	5,805.13	5,672.28	54.48	26.45	121.21	-3,046.84	1,939.14	4,476.70	4,408.92	67.78	66.052	
6,600.00	5,850.02	5,918.86	5,786.01	55.58	26.76	121.92	-3,047.71	1,939.54	4,509.87	4,441.03	68.84	65.514	
6,700.00	5,933.72	6,041.68	5,908.83	56.68	27.08	122.68	-3,047.65	1,939.61	4,542.80	4,472.89	69.91	64.979	
6,800.00	6,017.42	6,119.99	5,987.13	57.79	27.28	123.16	-3,047.23	1,939.27	4,575.78	4,504.95	70.82	64.610	
6,900.00	6,101.12	6,189.27	6,056.41	58.89	27.46	123.59	-3,047.03	1,938.74	4,609.40	4,537.70	71.70	64.291	
7,000.00	6,184.81	6,260.52	6,127.66	59.99	27.66	124.02	-3,047.06	1,938.14	4,643.70	4,571.13	72.57	63.988	
7,100.00	6,268.51	6,362.19	6,229.33	61.10	27.92	124.63	-3,047.10	1,937.83	4,678.37	4,604.83	73.54	63.613	
7,200.00	6,352.21	6,480.15	6,347.29	62.20	28.22	125.32	-3,046.34	1,937.84	4,712.78	4,638.22	74.56	63.209	
7,300.00	6,435.90	6,563.18	6,430.31	63.31	28.43	125.80	-3,045.49	1,937.16	4,747.38	4,671.93	75.45	62.923	
7,400.00	6,519.60	6,639.35	6,506.46	64.41	28.64	126.26	-3,044.64	1,935.49	4,782.44	4,706.14	76.30	62.678	
7,500.00	6,603.30	6,706.49	6,573.56	65.51	28.82	126.66	-3,043.96	1,933.39	4,818.10	4,740.99	77.12	62.478	
7,600.00	6,687.00	6,770.19	6,637.21	66.62	28.99	127.04	-3,043.50	1,931.10	4,854.45	4,776.54	77.91	62.308	
7,700.00	6,770.69	6,833.36	6,700.34	67.72	29.17	127.42	-3,043.28	1,928.72	4,891.51	4,812.82	78.69	62.158	
7,800.00	6,854.39	6,899.16	6,766.10	68.83	29.36	127.80	-3,043.35	1,926.63	4,929.25	4,849.77	79.48	62.016	
7,900.00	6,938.09	6,968.79	6,835.71	69.93	29.57	128.20	-3,043.69	1,924.71	4,967.60	4,887.32	80.28	61.877	
7,933.18	6,965.86	6,992.09	6,858.99	70.30	29.64	128.33	-3,043.83	1,923.99	4,980.45	4,899.90	80.55	61.834	
7,950.00	6,980.00	7,003.93	6,870.83	70.49	29.67	125.96	-3,043.90	1,923.62	4,986.76	4,906.08	80.68	61.810	
8,000.00	7,022.68	8,000.00	6,944.52	71.01	32.57	118.53	-3,043.85	1,920.92	5,002.54	4,918.22	84.32	59.331	
8,050.00	7,066.06	7,213.05	7,079.76	71.51	30.26	110.65	-3,041.94	1,915.25	5,013.64	4,931.65	81.99	61.149	
8,100.00	7,109.82	7,242.13	7,108.82	71.97	30.34	101.70	-3,041.40	1,914.15	5,020.66	4,938.28	82.38	60.947	
8,150.00	7,153.63	7,271.41	7,138.08	72.38	30.42	92.75	-3,040.97	1,913.22	5,023.65	4,940.89	82.76	60.699	
8,200.00	7,197.14	7,305.96	7,172.62	72.74	30.52	84.35	-3,040.62	1,912.38	5,022.60	4,939.44	83.16	60.397	
8,250.00	7,240.04	7,349.56	7,216.21	73.05	30.64	76.89	-3,040.29	1,911.81	5,017.42	4,933.84	83.58	60.031	
8,300.00	7,281.99	7,392.83	7,259.48	73.31	30.76	70.51	-3,040.07	1,911.78	5,008.13	4,924.14	83.99	59.627	
8,350.00	7,322.67	7,421.35	7,288.00	73.52	30.84	65.18	-3,039.97	1,911.75	4,994.87	4,910.54	84.33	59.231	
8,400.00	7,361.77	7,450.91	7,317.56	73.68	30.92	60.92	-3,039.89	1,911.63	4,977.76	4,893.11	84.65	58.802	
8,450.00	7,399.01	7,479.00	7,345.65	73.78	31.00	57.62	-3,039.84	1,911.39	4,956.92	4,871.97	84.95	58.350	
8,500.00	7,434.08	7,508.66	7,375.31	73.85	31.09	55.20	-3,039.82	1,911.07	4,932.49	4,847.25	85.24	57.865	
8,550.00	7,466.74	7,536.35	7,403.00	73.87	31.17	53.56	-3,039.82	1,910.76	4,904.63	4,819.13	85.51	57.360	
8,600.00	7,496.72	7,561.81	7,428.46	73.85	31.24	52.65	-3,039.85	1,910.47	4,873.55	4,787.80	85.74	56.838	
8,650.00	7,523.80	8,650.00	7,505.62	73.79	34.31	53.10	-3,039.47	1,910.38	4,839.01	4,749.53	89.49	54.076	
8,700.00	7,547.77	7,690.48	7,557.11	73.70	31.61	54.19	-3,039.04	1,910.70	4,801.75	4,715.26	86.49	55.518	
8,750.00	7,568.45	7,700.59	7,567.22	73.58	31.63	55.69	-3,038.96	1,910.83	4,762.02	4,675.40	86.63	54.972	
8,800.00	7,585.69	7,709.07	7,575.70	73.43	31.66	58.28	-3,038.92	1,910.93	4,720.14	4,633.40	86.74	54.415	
8,850.00	7,599.35	7,715.83	7,582.46	73.26	31.68	62.27	-3,038.89	1,911.02	4,676.39	4,589.54	86.84	53.848	
8,900.00	7,609.33	7,720.79	7,587.42	73.07	31.69	68.18	-3,038.88	1,911.07	4,631.07	4,544.14	86.93	53.275	
8,950.00	7,615.55	7,723.89	7,590.52	72.87	31.70	76.77	-3,038.87	1,911.11	4,584.50	4,497.50	87.00	52.696	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	7,725.09	7,591.72	72.65	31.70	89.00	-3,038.87	1,911.12	4,537.01	4,449.95	87.06	52.115	
9,006.60	7,618.00	7,725.10	7,591.73	72.62	31.70	90.92	-3,038.87	1,911.12	4,530.68	4,443.62	87.07	52.038	
9,100.00	7,618.00	7,725.04	7,591.67	72.22	31.70	90.91	-3,038.87	1,911.12	4,441.26	4,354.10	87.16	50.953	
9,200.00	7,618.00	7,724.97	7,591.60	71.80	31.70	90.91	-3,038.87	1,911.12	4,345.70	4,258.42	87.27	49.793	
9,300.00	7,618.00	7,724.90	7,591.53	71.41	31.70	90.91	-3,038.87	1,911.12	4,250.34	4,162.95	87.39	48.635	
9,400.00	7,618.00	7,724.82	7,591.45	71.04	31.70	90.91	-3,038.87	1,911.12	4,155.21	4,067.69	87.52	47.477	
9,500.00	7,618.00	7,724.75	7,591.38	70.68	31.70	90.90	-3,038.87	1,911.12	4,060.30	3,972.65	87.65	46.322	
9,600.00	7,618.00	7,724.67	7,591.30	70.35	31.70	90.90	-3,038.87	1,911.12	3,965.65	3,877.85	87.80	45.168	
9,700.00	7,618.00	7,724.60	7,591.23	70.04	31.70	90.90	-3,038.87	1,911.12	3,871.26	3,783.31	87.95	44.016	
9,800.00	7,618.00	7,724.52	7,591.15	69.75	31.70	90.89	-3,038.87	1,911.12	3,777.17	3,689.05	88.11	42.867	
9,900.00	7,618.00	7,724.43	7,591.07	69.47	31.70	90.89	-3,038.87	1,911.12	3,683.38	3,595.09	88.29	41.720	
10,000.00	7,618.00	7,724.35	7,590.98	69.22	31.70	90.88	-3,038.87	1,911.12	3,589.93	3,501.46	88.47	40.576	
10,100.00	7,618.00	7,724.27	7,590.90	68.99	31.70	90.88	-3,038.87	1,911.11	3,496.85	3,408.17	88.67	39.435	
10,200.00	7,618.00	7,724.18	7,590.81	68.78	31.70	90.88	-3,038.87	1,911.11	3,404.15	3,315.26	88.89	38.297	
10,300.00	7,618.00	7,724.09	7,590.72	68.59	31.70	90.87	-3,038.87	1,911.11	3,311.88	3,222.77	89.12	37.164	
10,400.00	7,618.00	7,724.00	7,590.63	68.42	31.70	90.87	-3,038.87	1,911.11	3,220.07	3,130.71	89.36	36.034	
10,500.00	7,618.00	7,723.90	7,590.53	68.28	31.70	90.86	-3,038.87	1,911.11	3,128.77	3,039.14	89.62	34.910	
10,600.00	7,618.00	7,723.80	7,590.44	68.16	31.70	90.86	-3,038.87	1,911.11	3,038.01	2,948.10	89.91	33.790	
10,700.00	7,618.00	7,723.70	7,590.34	68.06	31.70	90.86	-3,038.87	1,911.11	2,947.85	2,857.64	90.21	32.677	
10,800.00	7,618.00	7,723.60	7,590.23	67.99	31.70	90.85	-3,038.87	1,911.11	2,858.34	2,767.80	90.54	31.570	
10,900.00	7,618.00	7,723.50	7,590.13	67.95	31.70	90.85	-3,038.87	1,911.11	2,769.56	2,678.66	90.89	30.471	
11,000.00	7,618.00	7,723.39	7,590.02	67.95	31.70	90.84	-3,038.87	1,911.10	2,681.56	2,590.29	91.27	29.380	
11,100.00	7,618.00	7,723.28	7,589.91	67.97	31.70	90.84	-3,038.87	1,911.10	2,594.43	2,502.75	91.68	28.298	
11,200.00	7,618.00	7,723.16	7,589.79	68.04	31.70	90.83	-3,038.87	1,911.10	2,508.26	2,416.14	92.13	27.227	
11,300.00	7,618.00	7,723.05	7,589.68	68.15	31.70	90.83	-3,038.87	1,911.10	2,423.16	2,330.55	92.60	26.167	
11,400.00	7,618.00	7,722.92	7,589.56	68.30	31.70	90.82	-3,038.87	1,911.10	2,339.23	2,246.11	93.12	25.121	
11,500.00	7,618.00	7,722.80	7,589.43	68.50	31.70	90.82	-3,038.87	1,911.10	2,256.62	2,162.94	93.68	24.090	
11,600.00	7,618.00	7,722.67	7,589.30	68.75	31.70	90.81	-3,038.87	1,911.10	2,175.46	2,081.19	94.27	23.076	
11,700.00	7,618.00	7,722.54	7,589.17	69.06	31.70	90.80	-3,038.87	1,911.09	2,095.94	2,001.02	94.92	22.081	
11,800.00	7,618.00	7,722.40	7,589.03	69.44	31.69	90.80	-3,038.87	1,911.09	2,018.23	1,922.62	95.61	21.108	
11,900.00	7,618.00	7,722.26	7,588.89	69.88	31.69	90.79	-3,038.87	1,911.09	1,942.57	1,846.21	96.36	20.160	
12,000.00	7,618.00	7,722.12	7,588.75	70.39	31.69	90.79	-3,038.87	1,911.09	1,869.20	1,772.05	97.15	19.241	
12,100.00	7,618.00	7,721.97	7,588.60	70.97	31.69	90.78	-3,038.87	1,911.09	1,798.39	1,700.40	97.99	18.353	
12,200.00	7,618.00	7,721.81	7,588.44	71.63	31.69	90.77	-3,038.87	1,911.09	1,730.47	1,631.60	98.87	17.502	
12,300.00	7,618.00	7,721.65	7,588.28	72.35	31.69	90.77	-3,038.87	1,911.08	1,665.78	1,565.99	99.79	16.692	
12,400.00	7,618.00	7,721.49	7,588.12	73.15	31.69	90.76	-3,038.87	1,911.08	1,604.73	1,503.98	100.74	15.929	
12,500.00	7,618.00	7,721.31	7,587.95	74.01	31.69	90.75	-3,038.87	1,911.08	1,547.73	1,446.02	101.70	15.218	
12,600.00	7,618.00	7,721.14	7,587.77	74.93	31.69	90.74	-3,038.88	1,911.08	1,495.25	1,392.59	102.65	14.566	
12,700.00	7,618.00	7,720.95	7,587.58	75.91	31.69	90.73	-3,038.88	1,911.08	1,447.79	1,344.21	103.57	13.978	
12,800.00	7,618.00	7,720.76	7,587.39	76.95	31.69	90.73	-3,038.88	1,911.07	1,405.84	1,301.42	104.42	13.463	
12,900.00	7,618.00	7,720.56	7,587.20	78.04	31.69	90.72	-3,038.88	1,911.07	1,369.93	1,264.76	105.17	13.026	
13,000.00	7,618.00	7,720.36	7,586.99	79.16	31.69	90.71	-3,038.88	1,911.07	1,340.53	1,234.75	105.78	12.673	
13,100.00	7,618.00	7,720.14	7,586.78	80.33	31.69	90.70	-3,038.88	1,911.07	1,318.08	1,211.87	106.21	12.411	
13,200.00	7,618.00	7,719.92	7,586.55	81.54	31.69	90.69	-3,038.88	1,911.06	1,302.94	1,196.51	106.42	12.243	
13,300.00	7,618.00	7,719.69	7,586.32	82.78	31.69	90.68	-3,038.88	1,911.06	1,295.36	1,188.95	106.41	12.173	SF
13,348.44	7,618.00	7,719.58	7,586.21	83.39	31.69	90.67	-3,038.88	1,911.06	1,294.45	1,188.13	106.32	12.175	CC, ES
13,400.00	7,618.00	7,719.45	7,586.08	84.05	31.69	90.67	-3,038.88	1,911.06	1,295.48	1,189.32	106.16	12.203	
13,500.00	7,618.00	7,719.20	7,585.83	85.35	31.69	90.66	-3,038.88	1,911.06	1,303.30	1,197.62	105.67	12.333	
13,600.00	7,618.00	7,718.94	7,585.57	86.67	31.69	90.64	-3,038.88	1,911.05	1,318.67	1,213.70	104.98	12.562	
13,700.00	7,618.00	7,718.66	7,585.30	88.02	31.68	90.63	-3,038.88	1,911.05	1,341.34	1,237.24	104.10	12.885	
13,800.00	7,618.00	7,718.38	7,585.01	89.38	31.68	90.62	-3,038.88	1,911.05	1,370.95	1,267.87	103.09	13.299	
13,900.00	7,618.00	7,718.08	7,584.71	90.77	31.68	90.61	-3,038.88	1,911.04	1,407.06	1,305.08	101.98	13.797	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,618.00	7,717.77	7,584.40	92.17	31.68	90.59	-3,038.88	1,911.04	1,449.19	1,348.36	100.83	14.373	
14,100.00	7,618.00	7,717.44	7,584.07	93.59	31.68	90.58	-3,038.88	1,911.03	1,496.81	1,397.16	99.65	15.020	
14,200.00	7,618.00	7,717.09	7,583.72	95.02	31.68	90.56	-3,038.89	1,911.03	1,549.44	1,450.95	98.49	15.731	
14,300.00	7,618.00	7,716.73	7,583.36	96.47	31.68	90.55	-3,038.89	1,911.03	1,606.57	1,509.20	97.37	16.499	
14,400.00	7,618.00	7,716.35	7,582.98	97.93	31.68	90.53	-3,038.89	1,911.02	1,667.75	1,571.44	96.30	17.317	
14,500.00	7,618.00	7,715.95	7,582.58	99.41	31.68	90.51	-3,038.89	1,911.02	1,732.54	1,637.24	95.30	18.180	
14,600.00	7,618.00	7,715.52	7,582.15	100.89	31.68	90.49	-3,038.89	1,911.01	1,800.56	1,706.19	94.37	19.080	
14,700.00	7,618.00	7,715.07	7,581.71	102.38	31.67	90.47	-3,038.89	1,911.01	1,871.45	1,777.94	93.51	20.014	
14,800.00	7,618.00	7,714.60	7,581.23	103.89	31.67	90.45	-3,038.89	1,911.00	1,944.90	1,852.18	92.72	20.976	
14,900.00	7,618.00	7,714.10	7,580.73	105.40	31.67	90.43	-3,038.90	1,910.99	2,020.63	1,928.63	92.00	21.963	
15,000.00	7,618.00	7,713.56	7,580.19	106.92	31.67	90.41	-3,038.90	1,910.99	2,098.39	2,007.04	91.35	22.972	
15,100.00	7,618.00	7,712.99	7,579.63	108.45	31.67	90.38	-3,038.90	1,910.98	2,177.97	2,087.22	90.75	23.999	
15,200.00	7,618.00	7,712.39	7,579.02	109.99	31.67	90.35	-3,038.90	1,910.97	2,259.17	2,168.95	90.22	25.042	
15,300.00	7,618.00	7,711.74	7,578.37	111.54	31.67	90.33	-3,038.90	1,910.97	2,341.83	2,252.10	89.73	26.098	
15,400.00	7,618.00	7,711.05	7,577.68	113.09	31.66	90.30	-3,038.91	1,910.96	2,425.79	2,336.50	89.29	27.166	
15,500.00	7,618.00	7,710.30	7,576.93	114.65	31.66	90.26	-3,038.91	1,910.95	2,510.93	2,422.03	88.90	28.245	
15,600.00	7,618.00	7,709.50	7,576.13	116.21	31.66	90.23	-3,038.91	1,910.94	2,597.13	2,508.59	88.54	29.332	
15,700.00	7,618.00	7,708.63	7,575.27	117.78	31.66	90.19	-3,038.92	1,910.93	2,684.28	2,596.06	88.22	30.426	
15,800.00	7,618.00	7,707.70	7,574.33	119.36	31.65	90.15	-3,038.92	1,910.92	2,772.31	2,684.37	87.93	31.527	
15,900.00	7,618.00	7,706.68	7,573.31	120.94	31.65	90.10	-3,038.93	1,910.91	2,861.12	2,773.44	87.67	32.634	
16,000.00	7,618.00	7,705.57	7,572.20	122.53	31.65	90.05	-3,038.93	1,910.89	2,950.64	2,863.20	87.44	33.746	
16,100.00	7,618.00	7,704.36	7,570.99	124.12	31.64	90.00	-3,038.94	1,910.88	3,040.82	2,953.60	87.23	34.861	
16,200.00	7,618.00	7,703.02	7,569.66	125.72	31.64	89.94	-3,038.95	1,910.86	3,131.60	3,044.56	87.04	35.981	
16,300.00	7,618.00	7,701.55	7,568.18	127.32	31.64	89.88	-3,038.96	1,910.84	3,222.92	3,136.05	86.86	37.103	
16,400.00	7,618.00	7,699.92	7,566.55	128.93	31.63	89.80	-3,038.97	1,910.82	3,314.74	3,228.03	86.71	38.229	
16,500.00	7,618.00	7,698.09	7,564.73	130.54	31.63	89.72	-3,038.98	1,910.80	3,407.02	3,320.45	86.57	39.357	
16,600.00	7,618.00	7,696.04	7,562.67	132.15	31.62	89.63	-3,039.00	1,910.77	3,499.72	3,413.28	86.44	40.486	
16,700.00	7,618.00	7,693.72	7,560.36	133.77	31.61	89.53	-3,039.01	1,910.74	3,592.82	3,506.49	86.33	41.618	
16,800.00	7,618.00	7,691.07	7,557.71	135.39	31.61	89.41	-3,039.04	1,910.71	3,686.28	3,600.05	86.23	42.751	
16,900.00	7,618.00	7,688.03	7,554.66	137.01	31.60	89.28	-3,039.06	1,910.67	3,780.07	3,693.93	86.13	43.886	
17,000.00	7,618.00	7,684.48	7,551.11	138.64	31.59	89.12	-3,039.10	1,910.63	3,874.17	3,788.12	86.05	45.022	
17,100.00	7,618.00	7,680.30	7,546.93	140.27	31.58	88.94	-3,039.14	1,910.57	3,968.56	3,882.58	85.98	46.159	
17,200.00	7,618.00	7,675.29	7,541.93	141.91	31.56	88.71	-3,039.20	1,910.51	4,063.21	3,977.30	85.91	47.297	
17,300.00	7,618.00	7,669.20	7,535.84	143.55	31.55	88.44	-3,039.27	1,910.43	4,158.12	4,072.27	85.85	48.436	
17,400.00	7,618.00	7,667.00	7,533.64	145.19	31.54	88.35	-3,039.30	1,910.40	4,253.25	4,167.46	85.80	49.573	
17,500.00	7,618.00	7,667.00	7,533.64	146.83	31.54	88.35	-3,039.30	1,910.40	4,348.61	4,262.85	85.76	50.708	
17,600.00	7,618.00	7,667.00	7,533.64	148.48	31.54	88.35	-3,039.30	1,910.40	4,444.17	4,358.44	85.72	51.843	
17,700.00	7,618.00	7,667.00	7,533.64	150.13	31.54	88.35	-3,039.30	1,910.40	4,539.92	4,454.22	85.69	52.978	
17,800.00	7,618.00	7,667.00	7,533.64	151.78	31.54	88.35	-3,039.30	1,910.40	4,635.85	4,550.18	85.67	54.113	
17,900.00	7,618.00	7,667.00	7,533.64	153.43	31.54	88.35	-3,039.30	1,910.40	4,731.95	4,646.30	85.65	55.247	
18,000.00	7,618.00	7,667.00	7,533.64	155.09	31.54	88.35	-3,039.30	1,910.40	4,828.20	4,742.57	85.63	56.382	
18,100.00	7,618.00	7,667.00	7,533.64	156.75	31.54	88.35	-3,039.30	1,910.40	4,924.61	4,838.99	85.62	57.516	
18,200.00	7,618.00	7,658.76	7,525.40	158.41	31.52	87.98	-3,039.41	1,910.30	5,021.14	4,935.54	85.60	58.656	
18,300.00	7,618.00	7,657.92	7,524.56	160.07	31.51	87.95	-3,039.42	1,910.29	5,117.82	5,032.22	85.60	59.789	
18,400.00	7,618.00	7,657.09	7,523.73	161.74	31.51	87.91	-3,039.43	1,910.28	5,214.62	5,129.03	85.59	60.922	
18,500.00	7,618.00	7,656.29	7,522.93	163.41	31.51	87.87	-3,039.44	1,910.27	5,311.54	5,225.95	85.59	62.055	
18,600.00	7,618.00	7,655.49	7,522.13	165.08	31.51	87.84	-3,039.45	1,910.26	5,408.58	5,322.98	85.60	63.187	
18,700.00	7,618.00	7,654.72	7,521.36	166.75	31.51	87.81	-3,039.46	1,910.25	5,505.71	5,420.11	85.60	64.317	
18,711.30	7,618.00	7,654.64	7,521.28	166.94	31.51	87.80	-3,039.46	1,910.25	5,516.70	5,431.10	85.60	64.445	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	109.16	-1,475.37	4,247.05	4,496.29				
100.00	100.00	32.73	32.73	0.13	0.05	109.16	-1,475.36	4,247.12	4,496.11	4,495.93	0.19	N/A	
200.00	200.00	98.18	98.17	0.49	0.16	109.15	-1,475.29	4,247.68	4,496.88	4,496.23	0.65	6,943.285	
300.00	300.00	242.52	242.51	0.85	0.62	109.14	-1,474.80	4,249.13	4,497.80	4,496.32	1.47	3,051.977	
400.00	400.00	520.38	519.98	1.21	1.60	109.28	-1,483.55	4,240.96	4,496.17	4,493.36	2.81	1,600.644	
500.00	500.00	618.58	617.45	1.57	1.97	109.42	-1,492.76	4,233.52	4,492.11	4,488.57	3.54	1,269.075	
600.00	600.00	686.79	684.80	1.93	2.25	109.56	-1,501.97	4,227.94	4,488.83	4,484.66	4.17	1,075.378	
700.00	700.00	791.85	787.74	2.29	2.72	109.82	-1,520.41	4,217.95	4,485.73	4,480.73	5.00	897.831	
800.00	800.00	874.71	868.32	2.64	3.11	110.07	-1,537.62	4,209.22	4,482.83	4,477.08	5.75	779.687	
900.00	900.00	950.00	941.29	3.00	3.49	110.30	-1,554.39	4,201.31	4,480.56	4,474.08	6.49	690.900	
1,000.00	999.98	1,101.55	1,088.03	3.36	4.28	53.68	-1,588.53	4,184.90	4,477.34	4,469.71	7.63	586.880	
1,100.00	1,099.84	1,214.00	1,197.02	3.71	4.88	54.19	-1,612.77	4,171.55	4,470.77	4,462.19	8.58	521.353	
1,200.00	1,199.45	1,273.97	1,255.22	4.07	5.19	54.56	-1,625.54	4,164.74	4,462.80	4,453.56	9.25	482.494	
1,300.00	1,298.70	1,358.88	1,337.64	4.44	5.65	55.08	-1,643.87	4,155.71	4,453.75	4,443.68	10.07	442.426	
1,400.00	1,397.47	1,446.40	1,422.24	4.82	6.13	55.69	-1,663.93	4,145.73	4,442.80	4,431.88	10.92	406.863	
1,500.00	1,495.62	1,519.36	1,492.58	5.22	6.54	56.28	-1,681.45	4,137.47	4,430.66	4,418.95	11.72	378.174	
1,600.00	1,593.06	1,606.68	1,576.67	5.65	7.03	57.02	-1,702.77	4,127.50	4,417.09	4,404.47	12.62	350.052	
1,700.00	1,689.64	1,668.22	1,635.92	6.11	7.39	57.65	-1,717.90	4,120.68	4,402.44	4,389.04	13.40	328.554	
1,800.00	1,785.27	1,770.39	1,734.42	6.61	7.97	58.59	-1,742.75	4,109.72	4,386.67	4,372.23	14.44	303.797	
1,900.00	1,879.82	1,870.65	1,831.25	7.15	8.53	59.59	-1,766.31	4,098.79	4,369.23	4,353.73	15.50	281.919	
2,000.00	1,973.17	1,998.76	1,955.23	7.73	9.24	60.85	-1,795.19	4,084.38	4,350.06	4,333.32	16.74	259.787	
2,100.00	2,065.21	2,185.87	2,136.57	8.37	10.27	62.67	-1,834.93	4,061.11	4,328.68	4,310.33	18.35	235.921	
2,200.00	2,155.84	2,261.90	2,210.37	9.07	10.69	63.71	-1,850.19	4,051.02	4,305.34	4,285.94	19.39	221.990	
2,300.00	2,244.94	2,336.19	2,282.51	9.82	11.09	64.78	-1,865.04	4,041.23	4,281.34	4,260.85	20.49	208.986	
2,400.00	2,332.39	2,388.87	2,333.66	10.64	11.38	65.71	-1,875.62	4,034.41	4,256.95	4,235.42	21.52	197.792	
2,500.00	2,418.11	2,441.00	2,384.32	11.53	11.66	66.65	-1,886.08	4,028.01	4,232.53	4,209.91	22.62	187.119	
2,558.91	2,467.74	2,470.60	2,413.10	12.08	11.82	67.21	-1,892.06	4,024.50	4,218.14	4,194.85	23.29	181.110	
2,600.00	2,502.13	2,494.05	2,435.89	12.47	11.94	67.43	-1,896.84	4,021.72	4,208.21	4,184.42	23.78	176.931	
2,700.00	2,585.83	2,584.55	2,523.79	13.45	12.43	68.32	-1,915.47	4,010.92	4,184.88	4,159.69	25.19	166.108	
2,800.00	2,669.53	2,667.89	2,604.74	14.44	12.89	69.14	-1,932.25	4,000.37	4,161.97	4,135.38	26.59	156.503	
2,900.00	2,753.22	2,724.00	2,659.29	15.46	13.19	69.70	-1,943.45	3,993.53	4,140.42	4,112.55	27.87	148.568	
3,000.00	2,836.92	2,771.55	2,705.58	16.48	13.44	70.17	-1,952.84	3,988.06	4,120.29	4,091.18	29.11	141.532	
3,100.00	2,920.62	2,827.15	2,759.79	17.52	13.73	70.71	-1,963.66	3,982.06	4,101.61	4,071.19	30.41	134.856	
3,200.00	3,004.32	2,906.89	2,837.59	18.56	14.15	71.50	-1,978.96	3,973.65	4,084.08	4,052.22	31.86	128.200	
3,300.00	3,088.01	2,986.73	2,915.52	19.61	14.56	72.29	-1,994.10	3,965.15	4,067.55	4,034.23	33.31	122.097	
3,400.00	3,171.71	3,051.48	2,978.69	20.67	14.90	72.93	-2,006.46	3,958.13	4,052.11	4,017.40	34.71	116.757	
3,500.00	3,255.41	3,109.52	3,035.17	21.73	15.21	73.51	-2,018.14	3,951.56	4,038.04	4,001.97	36.07	111.942	
3,600.00	3,339.10	3,163.96	3,088.03	22.80	15.51	74.07	-2,029.53	3,945.28	4,025.43	3,988.00	37.43	107.534	
3,700.00	3,422.80	3,218.30	3,140.73	23.87	15.81	74.62	-2,041.18	3,939.04	4,014.34	3,975.54	38.80	103.467	
3,800.00	3,506.50	3,274.13	3,195.00	24.94	16.11	75.19	-2,052.92	3,933.12	4,004.75	3,964.58	40.17	99.694	
3,900.00	3,590.20	3,329.04	3,248.48	26.02	16.40	75.75	-2,064.17	3,927.84	3,996.66	3,955.13	41.53	96.231	
4,000.00	3,673.89	3,387.50	3,305.47	27.10	16.71	76.33	-2,076.10	3,922.61	3,990.08	3,947.17	42.91	92.985	
4,100.00	3,757.59	3,478.69	3,394.29	28.18	17.19	77.25	-2,094.90	3,914.08	3,984.62	3,940.14	44.48	89.573	
4,200.00	3,841.29	3,568.56	3,481.66	29.26	17.67	78.17	-2,113.77	3,904.68	3,980.07	3,934.02	46.05	86.430	
4,300.00	3,924.99	3,690.55	3,600.44	30.35	18.31	79.42	-2,138.25	3,891.56	3,976.16	3,928.37	47.79	83.198	
4,400.00	4,008.68	3,794.05	3,701.68	31.44	18.84	80.46	-2,156.97	3,880.94	3,972.63	3,923.23	49.41	80.409	
4,500.00	4,092.38	3,876.70	3,782.85	32.52	19.24	81.27	-2,170.58	3,873.47	3,970.03	3,919.15	50.88	78.030	
4,600.00	4,176.08	3,995.49	3,900.03	33.62	19.77	82.41	-2,187.90	3,864.53	3,968.32	3,915.81	52.50	75.584	
4,700.00	4,259.77	4,193.55	4,096.73	34.71	20.56	84.21	-2,207.71	3,853.13	3,965.53	3,911.15	54.38	72.920	
4,800.00	4,343.47	4,330.62	4,233.49	35.80	21.03	85.40	-2,215.34	3,848.28	3,962.24	3,906.31	55.94	70.835	
4,900.00	4,427.17	4,439.28	4,342.07	36.89	21.35	86.30	-2,218.85	3,845.87	3,958.97	3,901.65	57.33	69.060	
5,000.00	4,510.87	4,552.20	4,454.96	37.99	21.68	87.23	-2,220.79	3,844.24	3,955.91	3,897.18	58.73	67.358	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	4,666.64	4,569.40	39.08	21.99	88.14	-2,221.12	3,843.32	3,952.99	3,892.87	60.12	65.757	
5,200.00	4,678.26	4,776.58	4,679.33	40.18	22.27	89.02	-2,220.53	3,842.29	3,950.21	3,888.75	61.46	64.269	
5,300.00	4,761.96	4,869.22	4,771.96	41.28	22.50	89.76	-2,219.50	3,841.44	3,947.81	3,885.05	62.76	62.901	
5,400.00	4,845.66	4,963.00	4,865.73	42.37	22.73	90.51	-2,218.39	3,840.32	3,946.01	3,881.94	64.06	61.596	
5,500.00	4,929.35	5,036.35	4,939.07	43.47	22.93	91.10	-2,217.58	3,839.28	3,944.91	3,879.59	65.32	60.392	
5,550.07	4,971.26	5,070.18	4,972.88	44.02	23.02	91.37	-2,217.30	3,838.81	3,944.77	3,878.83	65.95	59.819	
5,600.00	5,013.05	5,103.87	5,006.57	44.57	23.11	91.64	-2,217.10	3,838.36	3,944.91	3,878.35	66.56	59.265	
5,700.00	5,096.75	5,171.25	5,073.95	45.67	23.30	92.18	-2,216.91	3,837.50	3,946.02	3,878.22	67.80	58.202	
5,800.00	5,180.45	5,238.50	5,141.19	46.77	23.48	92.73	-2,217.00	3,836.70	3,948.25	3,879.22	69.02	57.201	
5,900.00	5,264.14	5,311.52	5,214.21	47.87	23.69	93.32	-2,217.36	3,835.90	3,951.55	3,881.29	70.26	56.240	
6,000.00	5,347.84	5,391.11	5,293.79	48.97	23.92	93.96	-2,217.88	3,835.07	3,955.78	3,884.26	71.51	55.314	
6,100.00	5,431.54	5,480.55	5,383.22	50.07	24.18	94.68	-2,218.44	3,834.14	3,960.77	3,887.99	72.79	54.416	
6,200.00	5,515.23	5,581.64	5,484.31	51.17	24.48	95.49	-2,218.70	3,832.96	3,966.21	3,892.12	74.08	53.537	
6,300.00	5,598.93	5,671.61	5,574.27	52.27	24.73	96.21	-2,218.67	3,831.86	3,972.19	3,896.85	75.34	52.726	
6,400.00	5,682.63	5,755.08	5,657.74	53.38	24.97	96.88	-2,218.50	3,830.86	3,978.82	3,902.26	76.56	51.968	
6,500.00	5,766.33	5,819.94	5,722.59	54.48	25.16	97.39	-2,218.59	3,830.05	3,986.45	3,908.72	77.73	51.287	
6,600.00	5,850.02	5,958.24	5,860.87	55.58	25.56	98.49	-2,218.14	3,828.11	3,994.42	3,915.33	79.09	50.507	
6,700.00	5,933.72	6,044.59	5,947.21	56.68	25.80	99.17	-2,217.17	3,826.83	4,002.52	3,922.23	80.29	49.854	
6,800.00	6,017.42	6,116.56	6,019.17	57.79	26.00	99.74	-2,216.46	3,825.84	4,011.50	3,930.07	81.44	49.260	
6,900.00	6,101.12	6,203.29	6,105.89	58.89	26.24	100.42	-2,215.65	3,824.74	4,021.31	3,938.69	82.62	48.675	
7,000.00	6,184.81	6,289.79	6,192.37	59.99	26.49	101.09	-2,214.81	3,823.53	4,031.78	3,947.99	83.79	48.120	
7,100.00	6,268.51	6,368.60	6,271.17	61.10	26.72	101.71	-2,214.14	3,822.19	4,042.98	3,958.05	84.93	47.606	
7,200.00	6,352.21	6,448.76	6,351.31	62.20	26.95	102.34	-2,213.59	3,820.73	4,055.01	3,968.95	86.06	47.119	
7,300.00	6,435.90	6,523.48	6,426.02	63.31	27.17	102.92	-2,213.15	3,819.28	4,067.83	3,980.66	87.17	46.667	
7,400.00	6,519.60	6,590.00	6,492.53	64.41	27.37	103.43	-2,212.97	3,818.21	4,081.68	3,993.44	88.24	46.258	
7,500.00	6,603.30	6,667.98	6,570.50	65.51	27.61	104.03	-2,212.88	3,817.24	4,096.46	4,007.13	89.33	45.857	
7,600.00	6,687.00	6,738.87	6,641.39	66.62	27.83	104.57	-2,212.87	3,816.51	4,112.09	4,021.69	90.39	45.492	
7,700.00	6,770.69	6,810.17	6,712.69	67.72	28.05	105.11	-2,213.12	3,815.79	4,128.67	4,037.23	91.44	45.152	
7,800.00	6,854.39	6,885.05	6,787.56	68.83	28.28	105.68	-2,213.57	3,814.93	4,146.12	4,053.63	92.49	44.828	
7,900.00	6,938.09	6,960.42	6,862.92	69.93	28.52	106.25	-2,214.21	3,813.92	4,164.41	4,070.88	93.53	44.526	
7,933.18	6,965.86	6,985.62	6,888.11	70.30	28.60	106.44	-2,214.46	3,813.55	4,170.65	4,076.78	93.87	44.430	
7,950.00	6,980.00	6,998.47	6,900.97	70.49	28.65	104.28	-2,214.60	3,813.34	4,173.62	4,079.57	94.04	44.380	
8,000.00	7,022.68	7,037.21	6,939.70	71.01	28.77	97.12	-2,215.05	3,812.66	4,179.74	4,085.18	94.56	44.204	
8,050.00	7,066.06	7,079.61	6,982.08	71.51	28.91	89.02	-2,215.60	3,811.80	4,181.79	4,086.72	95.07	43.986	
8,100.00	7,109.82	7,127.60	7,030.06	71.97	29.07	80.31	-2,216.21	3,810.67	4,179.69	4,084.09	95.59	43.723	
8,150.00	7,153.63	7,171.56	7,073.99	72.38	29.21	71.43	-2,216.76	3,809.51	4,173.42	4,077.34	96.08	43.436	
8,200.00	7,197.14	7,209.48	7,111.90	72.74	29.34	62.86	-2,217.28	3,808.46	4,163.10	4,066.58	96.52	43.130	
8,250.00	7,240.04	7,246.90	7,149.30	73.05	29.46	55.02	-2,217.84	3,807.39	4,148.81	4,051.87	96.94	42.798	
8,300.00	7,281.99	7,285.08	7,187.46	73.31	29.59	48.09	-2,218.46	3,806.26	4,130.62	4,033.29	97.33	42.439	
8,350.00	7,322.67	7,322.30	7,224.66	73.52	29.71	42.08	-2,219.10	3,805.11	4,108.63	4,010.95	97.69	42.059	
8,400.00	7,361.77	7,358.14	7,260.48	73.68	29.84	36.90	-2,219.74	3,803.98	4,083.01	3,985.00	98.01	41.658	
8,450.00	7,399.01	7,392.36	7,294.66	73.78	29.95	32.40	-2,220.39	3,802.86	4,053.91	3,955.61	98.30	41.239	
8,500.00	7,434.08	8,500.00	7,391.62	73.85	33.52	28.90	-2,221.48	3,799.82	4,021.24	3,918.99	102.25	39.328	
8,550.00	7,466.74	7,636.32	7,538.50	73.87	30.71	26.17	-2,219.35	3,796.99	3,984.61	3,885.24	99.37	40.098	
8,600.00	7,496.72	7,656.83	7,559.01	73.85	30.77	22.67	-2,218.78	3,796.83	3,945.07	3,845.53	99.53	39.635	
8,650.00	7,523.80	7,679.39	7,581.56	73.79	30.83	19.13	-2,218.17	3,796.67	3,903.11	3,803.43	99.68	39.157	
8,700.00	7,547.77	7,699.25	7,601.42	73.70	30.88	15.21	-2,217.64	3,796.53	3,859.04	3,759.25	99.79	38.672	
8,750.00	7,568.45	7,716.26	7,618.42	73.58	30.93	10.36	-2,217.20	3,796.41	3,813.19	3,713.32	99.87	38.181	
8,800.00	7,585.69	7,731.42	7,633.57	73.43	30.97	3.56	-2,216.82	3,796.31	3,765.88	3,665.95	99.93	37.686	
8,850.00	7,599.35	7,743.63	7,645.78	73.26	31.01	-7.47	-2,216.51	3,796.25	3,717.46	3,617.50	99.96	37.191	
8,900.00	7,609.33	7,752.20	7,654.35	73.07	31.03	-27.87	-2,216.29	3,796.21	3,668.30	3,568.34	99.96	36.698	
8,950.00	7,615.55	7,757.06	7,659.21	72.87	31.04	-62.56	-2,216.16	3,796.19	3,618.78	3,518.84	99.94	36.210	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	7,758.18	7,660.32	72.65	31.05	-95.70	-2,216.14	3,796.19	3,569.28	3,469.39	99.90	35.730	
9,006.60	7,618.00	7,758.05	7,660.19	72.62	31.05	-98.91	-2,216.14	3,796.19	3,562.77	3,462.88	99.89	35.668	
9,100.00	7,618.00	7,755.69	7,657.84	72.22	31.04	-98.69	-2,216.20	3,796.20	3,470.72	3,370.94	99.78	34.784	
9,200.00	7,618.00	7,753.18	7,655.33	71.80	31.03	-98.45	-2,216.26	3,796.21	3,372.24	3,272.58	99.66	33.839	
9,300.00	7,618.00	7,750.67	7,652.82	71.41	31.03	-98.21	-2,216.33	3,796.22	3,273.85	3,174.32	99.53	32.894	
9,400.00	7,618.00	7,748.17	7,650.32	71.04	31.02	-97.97	-2,216.39	3,796.23	3,175.56	3,076.17	99.39	31.951	
9,500.00	7,618.00	7,745.67	7,647.82	70.68	31.01	-97.73	-2,216.46	3,796.24	3,077.38	2,978.14	99.24	31.008	
9,600.00	7,618.00	7,743.18	7,645.33	70.35	31.01	-97.49	-2,216.52	3,796.25	2,979.32	2,880.23	99.09	30.067	
9,700.00	7,618.00	7,740.69	7,642.84	70.04	31.00	-97.25	-2,216.58	3,796.26	2,881.39	2,782.46	98.92	29.127	
9,800.00	7,618.00	7,738.20	7,640.35	69.75	30.99	-97.01	-2,216.65	3,796.28	2,783.60	2,684.85	98.75	28.189	
9,900.00	7,618.00	7,735.72	7,637.87	69.47	30.99	-96.78	-2,216.71	3,796.29	2,685.98	2,587.42	98.56	27.252	
10,000.00	7,618.00	7,733.25	7,635.40	69.22	30.98	-96.54	-2,216.77	3,796.30	2,588.53	2,490.18	98.36	26.318	
10,100.00	7,618.00	7,730.78	7,632.93	68.99	30.97	-96.30	-2,216.83	3,796.32	2,491.28	2,393.15	98.14	25.386	
10,200.00	7,618.00	7,728.31	7,630.46	68.78	30.96	-96.06	-2,216.90	3,796.33	2,394.26	2,296.36	97.90	24.457	
10,300.00	7,618.00	7,725.85	7,628.00	68.59	30.96	-95.83	-2,216.96	3,796.35	2,297.49	2,199.85	97.64	23.530	
10,400.00	7,618.00	7,723.39	7,625.54	68.42	30.95	-95.59	-2,217.02	3,796.36	2,201.01	2,103.65	97.36	22.607	
10,500.00	7,618.00	7,720.94	7,623.09	68.28	30.94	-95.35	-2,217.08	3,796.38	2,104.85	2,007.80	97.05	21.688	
10,600.00	7,618.00	7,718.59	7,620.75	68.16	30.94	-95.12	-2,217.14	3,796.40	2,009.06	1,912.35	96.71	20.773	
10,700.00	7,618.00	7,716.22	7,618.38	68.06	30.93	-94.90	-2,217.20	3,796.41	1,913.71	1,817.36	96.34	19.863	
10,800.00	7,618.00	7,713.84	7,616.00	67.99	30.92	-94.67	-2,217.26	3,796.43	1,818.84	1,722.91	95.93	18.959	
10,900.00	7,618.00	7,711.44	7,613.60	67.95	30.92	-94.43	-2,217.32	3,796.45	1,724.56	1,629.08	95.48	18.062	
11,000.00	7,618.00	7,709.03	7,611.19	67.95	30.91	-94.20	-2,217.39	3,796.46	1,630.95	1,535.98	94.97	17.173	
11,100.00	7,618.00	7,706.60	7,608.76	67.97	30.90	-93.96	-2,217.45	3,796.48	1,538.14	1,443.74	94.40	16.294	
11,200.00	7,618.00	7,704.15	7,606.31	68.04	30.90	-93.73	-2,217.51	3,796.50	1,446.29	1,352.52	93.76	15.425	
11,300.00	7,618.00	7,701.68	7,603.84	68.15	30.89	-93.49	-2,217.58	3,796.51	1,355.58	1,262.54	93.04	14.569	
11,400.00	7,618.00	7,699.20	7,601.36	68.30	30.88	-93.25	-2,217.64	3,796.53	1,266.27	1,174.03	92.24	13.729	
11,500.00	7,618.00	7,696.69	7,598.86	68.50	30.88	-93.00	-2,217.71	3,796.55	1,178.67	1,087.35	91.33	12.906	
11,600.00	7,618.00	7,694.17	7,596.34	68.75	30.87	-92.76	-2,217.77	3,796.56	1,093.20	1,002.89	90.31	12.105	
11,700.00	7,618.00	7,691.64	7,593.80	69.06	30.86	-92.51	-2,217.84	3,796.58	1,010.39	921.20	89.19	11.328	
11,800.00	7,618.00	7,689.08	7,591.25	69.44	30.86	-92.26	-2,217.91	3,796.60	930.96	842.97	87.99	10.581	
11,900.00	7,618.00	7,686.51	7,588.67	69.88	30.85	-92.01	-2,217.98	3,796.62	855.84	769.08	86.76	9.864	
12,000.00	7,618.00	7,683.92	7,586.08	70.39	30.84	-91.76	-2,218.04	3,796.64	786.27	700.63	85.65	9.180	
12,100.00	7,618.00	7,681.30	7,583.47	70.97	30.83	-91.51	-2,218.11	3,796.66	723.86	638.98	84.88	8.528	
12,200.00	7,618.00	7,678.67	7,580.84	71.63	30.83	-91.25	-2,218.18	3,796.67	670.61	585.79	84.82	7.906	
12,300.00	7,618.00	7,676.02	7,578.19	72.35	30.82	-90.99	-2,218.26	3,796.69	628.84	542.96	85.88	7.323	
12,400.00	7,618.00	7,673.35	7,575.53	73.15	30.81	-90.73	-2,218.33	3,796.71	600.95	512.67	88.28	6.807	
12,500.00	7,618.00	7,670.67	7,572.84	74.01	30.80	-90.47	-2,218.40	3,796.73	588.93	497.09	91.84	6.413	
12,521.59	7,618.00	7,670.08	7,572.26	74.20	30.80	-90.41	-2,218.42	3,796.73	588.53	495.83	92.70	6.349	CC, ES
12,600.00	7,618.00	7,667.96	7,570.13	74.93	30.80	-90.21	-2,218.47	3,796.75	593.73	497.83	95.90	6.191	
12,700.00	7,618.00	7,665.23	7,567.40	75.91	30.79	-89.94	-2,218.55	3,796.77	614.96	515.21	99.75	6.165	SF
12,800.00	7,618.00	7,662.48	7,564.66	76.95	30.78	-89.67	-2,218.62	3,796.79	651.02	548.12	102.90	6.327	
12,900.00	7,618.00	7,659.71	7,561.89	78.04	30.77	-89.41	-2,218.70	3,796.81	699.61	594.39	105.23	6.649	
13,000.00	7,618.00	7,656.92	7,559.10	79.16	30.77	-89.13	-2,218.78	3,796.83	758.34	651.53	106.81	7.100	
13,100.00	7,618.00	7,654.11	7,556.29	80.33	30.76	-88.86	-2,218.86	3,796.85	825.03	717.21	107.83	7.651	
13,200.00	7,618.00	7,651.28	7,553.46	81.54	30.75	-88.58	-2,218.93	3,796.87	897.92	789.49	108.43	8.281	
13,300.00	7,618.00	7,648.43	7,550.61	82.78	30.74	-88.31	-2,219.01	3,796.89	975.62	866.86	108.76	8.970	
13,400.00	7,618.00	7,645.55	7,547.73	84.05	30.73	-88.03	-2,219.09	3,796.91	1,057.07	948.16	108.91	9.706	
13,500.00	7,618.00	7,642.65	7,544.84	85.35	30.73	-87.75	-2,219.18	3,796.93	1,141.46	1,032.52	108.94	10.478	
13,600.00	7,618.00	7,639.73	7,541.92	86.67	30.72	-87.46	-2,219.26	3,796.95	1,228.19	1,119.30	108.89	11.279	
13,700.00	7,618.00	7,636.79	7,538.98	88.02	30.71	-87.18	-2,219.34	3,796.98	1,316.80	1,208.01	108.80	12.103	
13,800.00	7,618.00	7,633.83	7,536.02	89.38	30.70	-86.89	-2,219.43	3,797.00	1,406.93	1,298.26	108.67	12.946	
13,900.00	7,618.00	7,630.84	7,533.03	90.77	30.69	-86.60	-2,219.51	3,797.02	1,498.31	1,389.77	108.54	13.805	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,618.00	7,628.00	7,530.19	92.17	30.68	-86.33	-2,219.59	3,797.04	1,590.72	1,482.33	108.39	14.676	
14,100.00	7,618.00	7,628.00	7,530.19	93.59	30.68	-86.33	-2,219.59	3,797.04	1,683.99	1,575.76	108.23	15.559	
14,200.00	7,618.00	7,628.00	7,530.19	95.02	30.68	-86.33	-2,219.59	3,797.04	1,778.00	1,669.92	108.08	16.451	
14,300.00	7,618.00	7,621.62	7,523.81	96.47	30.67	-85.71	-2,219.77	3,797.09	1,872.61	1,764.66	107.95	17.347	
14,400.00	7,618.00	7,619.62	7,521.82	97.93	30.66	-85.52	-2,219.83	3,797.11	1,967.76	1,859.95	107.81	18.252	
14,500.00	7,618.00	7,617.67	7,519.87	99.41	30.65	-85.33	-2,219.88	3,797.13	2,063.36	1,955.69	107.68	19.163	
14,600.00	7,618.00	7,615.76	7,517.96	100.89	30.65	-85.14	-2,219.93	3,797.15	2,159.36	2,051.81	107.55	20.078	
14,700.00	7,618.00	7,613.89	7,516.09	102.38	30.64	-84.96	-2,219.98	3,797.16	2,255.71	2,148.28	107.43	20.997	
14,800.00	7,618.00	7,612.06	7,514.26	103.89	30.64	-84.79	-2,220.03	3,797.18	2,352.36	2,245.04	107.32	21.920	
14,900.00	7,618.00	7,610.27	7,512.47	105.40	30.63	-84.61	-2,220.08	3,797.20	2,449.28	2,342.06	107.21	22.845	
15,000.00	7,618.00	7,608.52	7,510.72	106.92	30.63	-84.45	-2,220.12	3,797.22	2,546.43	2,439.32	107.11	23.774	
15,100.00	7,618.00	7,606.80	7,509.00	108.45	30.62	-84.28	-2,220.17	3,797.24	2,643.79	2,536.77	107.02	24.704	
15,200.00	7,618.00	7,605.11	7,507.31	109.99	30.62	-84.12	-2,220.21	3,797.26	2,741.34	2,634.41	106.93	25.637	
15,300.00	7,618.00	7,603.46	7,505.66	111.54	30.61	-83.96	-2,220.25	3,797.28	2,839.06	2,732.22	106.84	26.572	
15,400.00	7,618.00	7,601.85	7,504.05	113.09	30.61	-83.80	-2,220.29	3,797.30	2,936.94	2,830.17	106.77	27.508	
15,500.00	7,618.00	7,600.26	7,502.46	114.65	30.60	-83.65	-2,220.33	3,797.31	3,034.95	2,928.25	106.69	28.446	
15,600.00	7,618.00	7,598.71	7,500.91	116.21	30.60	-83.50	-2,220.37	3,797.33	3,133.08	3,026.46	106.62	29.384	
15,700.00	7,618.00	7,597.18	7,499.38	117.78	30.60	-83.36	-2,220.41	3,797.35	3,231.33	3,124.77	106.56	30.324	
15,800.00	7,618.00	7,595.68	7,497.89	119.36	30.59	-83.21	-2,220.44	3,797.37	3,329.68	3,223.18	106.50	31.265	
15,900.00	7,618.00	7,594.22	7,496.42	120.94	30.59	-83.07	-2,220.48	3,797.39	3,428.12	3,321.68	106.44	32.206	
16,000.00	7,618.00	7,592.78	7,494.98	122.53	30.58	-82.94	-2,220.51	3,797.41	3,526.66	3,420.27	106.39	33.148	
16,100.00	7,618.00	7,591.36	7,493.57	124.12	30.58	-82.80	-2,220.54	3,797.43	3,625.27	3,518.93	106.34	34.091	
16,200.00	7,618.00	7,589.97	7,492.18	125.72	30.57	-82.67	-2,220.58	3,797.45	3,723.95	3,617.66	106.29	35.035	
16,300.00	7,618.00	7,588.61	7,490.82	127.32	30.57	-82.54	-2,220.61	3,797.47	3,822.70	3,716.45	106.25	35.978	
16,400.00	7,618.00	7,587.27	7,489.48	128.93	30.57	-82.41	-2,220.64	3,797.49	3,921.52	3,815.31	106.21	36.922	
16,500.00	7,618.00	7,585.96	7,488.16	130.54	30.56	-82.28	-2,220.67	3,797.51	4,020.39	3,914.22	106.17	37.867	
16,600.00	7,618.00	7,584.67	7,486.87	132.15	30.56	-82.16	-2,220.69	3,797.53	4,119.32	4,013.18	106.14	38.811	
16,700.00	7,618.00	7,583.40	7,485.61	133.77	30.56	-82.04	-2,220.72	3,797.55	4,218.29	4,112.19	106.11	39.756	
16,800.00	7,618.00	7,582.15	7,484.36	135.39	30.55	-81.92	-2,220.75	3,797.57	4,317.32	4,211.24	106.08	40.701	
16,900.00	7,618.00	7,580.93	7,483.14	137.01	30.55	-81.81	-2,220.78	3,797.59	4,416.38	4,310.34	106.05	41.645	
17,000.00	7,618.00	7,579.72	7,481.93	138.64	30.54	-81.69	-2,220.80	3,797.60	4,515.49	4,409.47	106.02	42.590	
17,100.00	7,618.00	7,578.54	7,480.75	140.27	30.54	-81.58	-2,220.83	3,797.62	4,614.63	4,508.64	106.00	43.535	
17,200.00	7,618.00	7,577.38	7,479.59	141.91	30.54	-81.47	-2,220.85	3,797.64	4,713.81	4,607.84	105.98	44.480	
17,300.00	7,618.00	7,576.23	7,478.44	143.55	30.53	-81.36	-2,220.88	3,797.66	4,813.03	4,707.07	105.96	45.424	
17,400.00	7,618.00	7,575.11	7,477.32	145.19	30.53	-81.25	-2,220.90	3,797.68	4,912.27	4,806.33	105.94	46.369	
17,500.00	7,618.00	7,574.00	7,476.21	146.83	30.53	-81.15	-2,220.92	3,797.70	5,011.55	4,905.63	105.92	47.313	
17,600.00	7,618.00	7,572.91	7,475.12	148.48	30.53	-81.05	-2,220.94	3,797.72	5,110.85	5,004.94	105.91	48.257	
17,700.00	7,618.00	7,571.84	7,474.05	150.13	30.52	-80.95	-2,220.97	3,797.74	5,210.18	5,104.28	105.90	49.201	
17,800.00	7,618.00	7,570.79	7,473.00	151.78	30.52	-80.85	-2,220.99	3,797.75	5,309.53	5,203.65	105.88	50.144	
17,900.00	7,618.00	7,569.75	7,471.96	153.43	30.52	-80.75	-2,221.01	3,797.77	5,408.91	5,303.04	105.88	51.088	
18,000.00	7,618.00	7,568.73	7,470.94	155.09	30.51	-80.65	-2,221.03	3,797.79	5,508.31	5,402.44	105.87	52.031	
18,100.00	7,618.00	7,567.72	7,469.94	156.75	30.51	-80.56	-2,221.05	3,797.81	5,607.73	5,501.87	105.86	52.973	
18,200.00	7,618.00	7,566.73	7,468.95	158.41	30.51	-80.46	-2,221.07	3,797.83	5,707.17	5,601.32	105.85	53.915	
18,300.00	7,618.00	7,565.76	7,467.97	160.07	30.50	-80.37	-2,221.09	3,797.84	5,806.63	5,700.78	105.85	54.857	
18,400.00	7,618.00	7,564.80	7,467.01	161.74	30.50	-80.28	-2,221.10	3,797.86	5,906.11	5,800.26	105.85	55.799	
18,500.00	7,618.00	7,563.85	7,466.07	163.41	30.50	-80.19	-2,221.12	3,797.88	6,005.60	5,899.76	105.84	56.740	
18,600.00	7,618.00	7,562.92	7,465.14	165.08	30.50	-80.11	-2,221.14	3,797.90	6,105.11	5,999.27	105.84	57.680	
18,700.00	7,618.00	7,562.01	7,464.22	166.75	30.49	-80.02	-2,221.16	3,797.91	6,204.64	6,098.79	105.84	58.620	
18,711.30	7,618.00	7,561.90	7,464.12	166.94	30.49	-80.01	-2,221.16	3,797.92	6,215.89	6,110.04	105.84	58.726	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	123.79	-3,056.32	4,566.56	5,495.17				
100.00	100.00	48.09	48.09	0.13	0.08	123.79	-3,056.41	4,566.53	5,494.99	5,494.78	0.21	N/A	
200.00	200.00	148.88	148.88	0.49	0.35	123.80	-3,056.99	4,566.30	5,495.11	5,494.27	0.84	6,523.190	
300.00	300.00	207.37	207.36	0.85	0.56	123.80	-3,057.37	4,566.20	5,495.43	5,494.02	1.41	3,900.095	
400.00	400.00	245.55	245.55	1.21	0.69	123.81	-3,057.71	4,566.61	5,496.83	5,494.92	1.90	2,888.885	
500.00	500.00	273.00	272.98	1.57	0.79	123.80	-3,058.01	4,567.19	5,499.37	5,497.01	2.36	2,331.912	
600.00	600.00	315.94	315.90	1.93	0.94	123.80	-3,058.56	4,568.65	5,503.05	5,500.18	2.87	1,919.157	
700.00	700.00	364.00	363.88	2.29	1.11	123.79	-3,059.23	4,571.20	5,508.02	5,504.63	3.39	1,623.631	
800.00	800.00	364.00	363.88	2.64	1.11	123.79	-3,059.23	4,571.20	5,514.17	5,510.42	3.75	1,470.295	
900.00	900.00	404.94	404.70	3.00	1.26	123.78	-3,059.94	4,574.20	5,521.55	5,517.30	4.25	1,298.393	
1,000.00	999.98	455.00	454.51	3.36	1.45	66.44	-3,061.14	4,579.06	5,529.84	5,525.06	4.78	1,156.993	
1,100.00	1,099.84	455.00	454.51	3.71	1.45	66.29	-3,061.14	4,579.06	5,537.67	5,532.55	5.12	1,080.558	
1,200.00	1,199.45	778.93	775.10	4.07	2.71	66.21	-3,055.28	4,614.91	5,541.21	5,534.53	6.68	829.984	
1,300.00	1,298.70	824.00	819.44	4.44	2.88	66.17	-3,054.99	4,622.73	5,546.70	5,539.49	7.20	770.074	
1,400.00	1,397.47	824.00	819.44	4.82	2.88	66.12	-3,054.99	4,622.73	5,549.08	5,541.51	7.57	732.681	
1,500.00	1,495.62	824.00	819.44	5.22	2.88	66.07	-3,054.99	4,622.73	5,551.86	5,543.90	7.96	697.499	
1,600.00	1,593.06	824.00	819.44	5.65	2.88	66.01	-3,054.99	4,622.73	5,555.02	5,546.65	8.37	664.019	
1,700.00	1,689.64	824.00	819.44	6.11	2.88	65.95	-3,054.99	4,622.73	5,558.56	5,549.76	8.80	631.869	
1,800.00	1,785.27	824.00	819.44	6.61	2.88	65.88	-3,054.99	4,622.73	5,562.48	5,553.22	9.26	600.798	
1,900.00	1,879.82	824.00	819.44	7.15	2.88	65.80	-3,054.99	4,622.73	5,566.76	5,557.00	9.75	570.658	
2,000.00	1,973.17	824.00	819.44	7.73	2.88	65.71	-3,054.99	4,622.73	5,571.41	5,561.12	10.29	541.380	
2,100.00	2,065.21	824.00	819.44	8.37	2.88	65.62	-3,054.99	4,622.73	5,576.41	5,565.54	10.87	512.961	
2,200.00	2,155.84	865.70	859.97	9.07	3.09	65.66	-3,057.25	4,632.25	5,581.33	5,569.66	11.67	478.354	
2,300.00	2,244.94	919.00	911.53	9.82	3.35	65.76	-3,060.02	4,645.47	5,586.13	5,573.56	12.57	444.309	
2,400.00	2,332.39	919.00	911.53	10.64	3.35	65.68	-3,060.02	4,645.47	5,590.58	5,577.28	13.30	420.215	
2,500.00	2,418.11	956.69	947.80	11.53	3.55	65.74	-3,062.07	4,655.52	5,594.93	5,580.67	14.27	392.214	
2,558.91	2,467.74	972.05	962.54	12.08	3.63	65.76	-3,062.98	4,659.77	5,597.48	5,582.66	14.83	377.539	
2,600.00	2,502.13	1,013.00	1,001.65	12.47	3.85	65.93	-3,065.64	4,671.57	5,599.66	5,584.29	15.36	364.515	
2,700.00	2,585.83	1,013.00	1,001.65	13.45	3.85	65.93	-3,065.64	4,671.57	5,604.92	5,588.68	16.24	345.231	
2,800.00	2,669.53	1,013.00	1,001.65	14.44	3.85	65.93	-3,065.64	4,671.57	5,611.96	5,594.83	17.12	327.770	
2,900.00	2,753.22	1,059.08	1,045.42	15.46	4.13	66.12	-3,069.17	4,685.54	5,620.08	5,601.84	18.24	308.068	
3,000.00	2,836.92	1,107.00	1,090.64	16.48	4.42	66.32	-3,073.58	4,700.78	5,629.87	5,610.49	19.39	290.381	
3,100.00	2,920.62	1,107.00	1,090.64	17.52	4.42	66.32	-3,073.58	4,700.78	5,640.69	5,620.39	20.30	277.893	
3,200.00	3,004.32	1,155.73	1,136.36	18.56	4.74	66.52	-3,078.36	4,716.96	5,652.82	5,631.35	21.47	263.282	
3,300.00	3,088.01	1,214.00	1,190.73	19.61	5.12	66.75	-3,083.84	4,737.17	5,666.00	5,643.30	22.70	249.586	
3,400.00	3,171.71	1,267.74	1,240.73	20.67	5.50	66.96	-3,088.90	4,756.21	5,680.00	5,656.07	23.92	237.422	
3,500.00	3,255.41	1,354.04	1,321.02	21.73	6.11	67.30	-3,097.38	4,786.72	5,694.53	5,669.18	25.34	224.700	
3,600.00	3,339.10	1,451.77	1,411.82	22.80	6.82	67.68	-3,106.26	4,821.74	5,709.23	5,682.38	26.85	212.640	
3,700.00	3,422.80	1,525.32	1,480.06	23.87	7.37	67.96	-3,112.53	4,848.46	5,724.21	5,695.98	28.23	202.788	
3,800.00	3,506.50	1,591.00	1,540.83	24.94	7.86	68.20	-3,118.33	4,872.68	5,739.96	5,710.39	29.57	194.132	
3,900.00	3,590.20	1,657.03	1,601.82	26.02	8.37	68.45	-3,124.32	4,897.27	5,756.36	5,725.44	30.92	186.176	
4,000.00	3,673.89	1,804.48	1,738.22	27.10	9.51	68.99	-3,137.04	4,951.79	5,772.52	5,739.71	32.81	175.950	
4,100.00	3,757.59	1,858.93	1,788.61	28.18	9.93	69.19	-3,141.72	4,971.89	5,788.88	5,754.77	34.10	169.747	
4,200.00	3,841.29	4,200.00	1,937.86	29.26	27.74	69.78	-3,156.30	5,030.69	5,805.63	5,758.16	47.48	122.281	
4,300.00	3,924.99	2,158.00	2,066.63	30.35	12.20	70.30	-3,167.87	5,078.89	5,820.66	5,782.70	37.96	153.336	
4,400.00	4,008.68	2,206.81	2,112.10	31.44	12.58	70.48	-3,171.78	5,096.19	5,836.38	5,797.14	39.24	148.728	
4,500.00	4,092.38	2,252.00	2,153.97	32.52	12.93	70.64	-3,175.57	5,112.78	5,853.24	5,812.74	40.50	144.532	
4,600.00	4,176.08	2,372.25	2,265.40	33.62	13.87	71.07	-3,185.69	5,156.84	5,870.41	5,828.13	42.28	138.847	
4,700.00	4,259.77	2,443.09	2,331.05	34.71	14.42	71.32	-3,191.61	5,182.78	5,887.72	5,843.99	43.72	134.657	
4,800.00	4,343.47	2,558.80	2,438.49	35.80	15.32	71.73	-3,201.31	5,224.65	5,904.88	5,859.40	45.49	129.809	
4,900.00	4,427.17	2,601.14	2,477.72	36.89	15.65	71.88	-3,204.98	5,240.12	5,922.78	5,876.05	46.74	126.720	
5,000.00	4,510.87	2,649.64	2,522.49	37.99	16.04	72.05	-3,209.32	5,258.27	5,941.64	5,893.61	48.03	123.699	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	2,711.43	2,579.36	39.08	16.54	72.26	-3,214.89	5,281.78	5,961.24	5,911.81	49.43	120.603	
5,200.00	4,678.26	2,792.34	2,653.67	40.18	17.20	72.54	-3,222.24	5,312.92	5,981.38	5,930.40	50.97	117.342	
5,300.00	4,761.96	2,933.26	2,783.37	41.28	18.35	73.01	-3,234.96	5,366.53	6,001.36	5,948.37	52.98	113.273	
5,400.00	4,845.66	2,998.74	2,843.73	42.37	18.88	73.24	-3,240.98	5,391.19	6,021.39	5,966.97	54.42	110.655	
5,500.00	4,929.35	3,071.19	2,910.41	43.47	19.47	73.48	-3,247.80	5,418.69	6,041.96	5,986.06	55.91	108.070	
5,600.00	5,013.05	3,133.08	2,967.25	44.57	19.99	73.69	-3,253.57	5,442.52	6,063.06	6,005.74	57.32	105.774	
5,700.00	5,096.75	3,196.00	3,024.80	45.67	20.51	73.90	-3,259.52	5,467.23	6,084.91	6,026.16	58.74	103.582	
5,800.00	5,180.45	3,345.95	3,162.19	46.77	21.77	74.38	-3,272.57	5,525.88	6,106.14	6,045.25	60.89	100.289	
5,900.00	5,264.14	3,449.36	3,257.19	47.87	22.62	74.72	-3,282.28	5,565.52	6,127.72	6,065.08	62.64	97.818	
6,000.00	5,347.84	3,562.57	3,361.54	48.97	23.54	75.09	-3,292.83	5,608.15	6,148.95	6,084.47	64.48	95.357	
6,100.00	5,431.54	3,602.61	3,398.35	50.07	23.88	75.22	-3,296.41	5,623.50	6,170.62	6,104.88	65.73	93.871	
6,200.00	5,515.23	3,634.85	3,427.85	51.17	24.15	75.32	-3,299.45	5,636.16	6,193.34	6,126.42	66.91	92.556	
6,300.00	5,598.93	3,810.34	3,588.27	52.27	25.63	75.87	-3,315.87	5,705.34	6,216.53	6,147.22	69.31	89.688	
6,400.00	5,682.63	3,904.18	3,674.70	53.38	26.40	76.17	-3,325.01	5,740.73	6,238.83	6,167.82	71.01	87.857	
6,500.00	5,766.33	4,020.21	3,781.75	54.48	27.34	76.55	-3,336.37	5,784.03	6,261.09	6,188.19	72.90	85.891	
6,600.00	5,850.02	4,147.05	3,898.75	55.58	28.37	76.95	-3,347.74	5,831.68	6,283.08	6,208.21	74.88	83.910	
6,700.00	5,933.72	4,267.35	4,010.04	56.68	29.33	77.33	-3,357.97	5,876.19	6,304.49	6,227.68	76.81	82.081	
6,800.00	6,017.42	4,329.00	4,067.07	57.79	29.82	77.53	-3,363.52	5,898.95	6,326.41	6,248.16	78.25	80.849	
6,900.00	6,101.12	6,422.38	6,098.34	58.89	39.81	85.91	-3,455.64	6,285.99	6,336.11	6,246.42	89.70	70.640	
7,000.00	6,184.81	6,506.26	6,182.21	59.99	39.96	86.32	-3,455.18	6,285.63	6,330.86	6,239.70	91.16	69.451	
7,100.00	6,268.51	6,598.46	6,274.41	61.10	40.13	86.78	-3,454.54	6,285.30	6,326.01	6,233.38	92.63	68.294	
7,200.00	6,352.21	6,683.05	6,359.00	62.20	40.29	87.20	-3,453.86	6,285.02	6,321.57	6,227.48	94.09	67.186	
7,300.00	6,435.90	6,754.77	6,430.72	63.31	40.43	87.55	-3,453.25	6,284.92	6,317.67	6,222.13	95.53	66.132	
7,400.00	6,519.60	6,817.06	6,493.01	64.41	40.55	87.86	-3,452.65	6,285.18	6,314.43	6,217.48	96.96	65.126	
7,500.00	6,603.30	6,881.00	6,556.94	65.51	40.69	88.17	-3,452.04	6,285.97	6,312.03	6,213.65	98.39	64.156	
7,600.00	6,687.00	6,944.53	6,620.45	66.62	40.83	88.47	-3,451.42	6,287.15	6,310.36	6,210.54	99.81	63.222	
7,700.00	6,770.69	7,055.25	6,731.14	67.72	41.08	89.00	-3,450.16	6,289.36	6,309.13	6,207.80	101.33	62.261	
7,800.00	6,854.39	7,176.74	6,852.61	68.83	41.35	89.59	-3,448.27	6,291.19	6,307.78	6,204.91	102.87	61.318	
7,900.00	6,938.09	7,256.69	6,932.53	69.93	41.53	89.97	-3,446.90	6,292.26	6,306.70	6,202.39	104.32	60.456	
7,933.18	6,965.86	7,298.58	6,974.42	70.30	41.62	90.17	-3,446.20	6,292.75	6,306.43	6,201.60	104.83	60.160	
7,950.00	6,980.00	7,320.60	6,996.43	70.49	41.67	87.94	-3,445.82	6,292.96	6,306.07	6,200.98	105.08	60.010	
8,000.00	7,022.68	8,000.00	7,034.39	71.01	43.15	80.38	-3,445.15	6,293.26	6,302.44	6,195.02	107.43	58.667	
8,050.00	7,066.06	7,389.68	7,065.50	71.51	41.81	71.72	-3,444.71	6,293.38	6,295.15	6,188.75	106.41	59.161	
8,100.00	7,109.82	7,414.16	7,089.98	71.97	41.86	62.30	-3,444.51	6,293.43	6,284.33	6,177.34	106.98	58.740	
8,150.00	7,153.63	7,448.00	7,123.82	72.38	41.93	52.63	-3,444.42	6,293.43	6,270.02	6,162.49	107.53	58.311	
8,200.00	7,197.14	7,507.27	7,183.09	72.74	42.05	43.26	-3,444.35	6,293.24	6,252.19	6,144.13	108.06	57.860	
8,250.00	7,240.04	7,605.68	7,281.50	73.05	42.24	34.54	-3,443.69	6,292.50	6,230.61	6,122.02	108.59	57.376	
8,300.00	7,281.99	8,300.00	7,379.27	73.31	43.59	26.47	-3,442.03	6,291.30	6,205.18	6,094.70	110.48	56.168	
8,350.00	7,322.67	7,776.29	7,452.06	73.52	42.57	18.94	-3,440.28	6,290.39	6,176.49	6,067.07	109.43	56.444	
8,400.00	7,361.77	7,810.27	7,486.03	73.68	42.64	11.80	-3,439.40	6,290.00	6,144.93	6,035.26	109.67	56.029	
8,450.00	7,399.01	7,823.00	7,498.75	73.78	42.67	4.92	-3,439.07	6,289.86	6,110.79	6,000.97	109.83	55.640	
8,500.00	7,434.08	7,823.00	7,498.75	73.85	42.67	-1.88	-3,439.07	6,289.86	6,074.45	5,964.55	109.90	55.273	
8,550.00	7,466.74	7,823.00	7,498.75	73.87	42.67	-8.82	-3,439.07	6,289.86	6,036.17	5,926.26	109.91	54.918	
8,600.00	7,496.72	7,855.83	7,531.56	73.85	42.74	-16.27	-3,438.41	6,289.65	5,995.87	5,885.95	109.92	54.546	
8,650.00	7,523.80	7,863.32	7,539.06	73.79	42.75	-24.29	-3,438.31	6,289.64	5,954.32	5,844.48	109.84	54.210	
8,700.00	7,547.77	7,869.99	7,545.73	73.70	42.77	-33.08	-3,438.23	6,289.64	5,911.62	5,801.92	109.70	53.891	
8,750.00	7,568.45	7,875.78	7,551.52	73.58	42.78	-42.63	-3,438.18	6,289.66	5,868.10	5,758.60	109.51	53.587	
8,800.00	7,585.69	7,880.64	7,556.38	73.43	42.79	-52.73	-3,438.14	6,289.68	5,824.08	5,714.82	109.27	53.301	
8,850.00	7,599.35	7,884.51	7,560.25	73.26	42.80	-62.92	-3,438.12	6,289.70	5,779.90	5,670.92	108.99	53.033	
8,900.00	7,609.33	7,918.00	7,593.74	73.07	42.87	-73.26	-3,438.14	6,290.03	5,736.19	5,627.47	108.72	52.761	
8,950.00	7,615.55	7,918.00	7,593.74	72.87	42.87	-82.01	-3,438.14	6,290.03	5,692.69	5,584.33	108.36	52.535	
9,000.00	7,617.97	7,918.00	7,593.74	72.65	42.87	-89.53	-3,438.14	6,290.03	5,650.09	5,542.12	107.97	52.331	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,006.60	7,618.00	7,918.00	7,593.74	72.62	42.87	-90.42	-3,438.14	6,290.03	5,644.55	5,536.63	107.91	52.306	
9,100.00	7,618.00	7,918.00	7,593.74	72.22	42.87	-90.42	-3,438.14	6,290.03	5,566.58	5,459.43	107.14	51.954	
9,200.00	7,618.00	7,918.00	7,593.74	71.80	42.87	-90.42	-3,438.14	6,290.03	5,483.63	5,377.33	106.30	51.585	
9,300.00	7,618.00	7,918.00	7,593.74	71.41	42.87	-90.42	-3,438.14	6,290.03	5,401.26	5,295.82	105.44	51.226	
9,400.00	7,618.00	7,918.00	7,593.74	71.04	42.87	-90.42	-3,438.14	6,290.03	5,319.50	5,214.94	104.56	50.875	
9,500.00	7,618.00	7,918.00	7,593.74	70.68	42.87	-90.42	-3,438.14	6,290.03	5,238.37	5,134.71	103.66	50.535	
9,600.00	7,618.00	7,918.00	7,593.74	70.35	42.87	-90.42	-3,438.14	6,290.03	5,157.90	5,055.16	102.74	50.203	
9,700.00	7,618.00	7,918.00	7,593.74	70.04	42.87	-90.42	-3,438.14	6,290.03	5,078.13	4,976.32	101.80	49.882	
9,800.00	7,618.00	7,918.00	7,593.74	69.75	42.87	-90.42	-3,438.14	6,290.03	4,999.08	4,898.23	100.85	49.570	
9,900.00	7,618.00	7,888.80	7,564.54	69.47	42.81	-89.88	-3,438.10	6,289.72	4,920.53	4,820.69	99.84	49.285	
10,000.00	7,618.00	7,888.68	7,564.42	69.22	42.81	-89.88	-3,438.10	6,289.72	4,843.04	4,744.18	98.85	48.992	
10,100.00	7,618.00	7,888.56	7,564.30	68.99	42.81	-89.88	-3,438.10	6,289.72	4,766.39	4,668.53	97.86	48.707	
10,200.00	7,618.00	7,888.44	7,564.17	68.78	42.81	-89.87	-3,438.11	6,289.72	4,690.62	4,593.77	96.85	48.432	
10,300.00	7,618.00	7,888.31	7,564.05	68.59	42.81	-89.87	-3,438.11	6,289.72	4,615.77	4,519.93	95.84	48.163	
10,400.00	7,618.00	7,888.18	7,563.92	68.42	42.81	-89.87	-3,438.11	6,289.72	4,541.89	4,447.08	94.82	47.902	
10,500.00	7,618.00	7,888.04	7,563.78	68.28	42.81	-89.87	-3,438.11	6,289.72	4,469.03	4,375.23	93.79	47.647	
10,600.00	7,618.00	7,887.91	7,563.64	68.16	42.81	-89.86	-3,438.11	6,289.72	4,397.23	4,304.45	92.78	47.396	
10,700.00	7,618.00	7,887.77	7,563.50	68.06	42.81	-89.86	-3,438.11	6,289.72	4,326.56	4,234.79	91.77	47.147	
10,800.00	7,618.00	7,887.62	7,563.36	67.99	42.81	-89.86	-3,438.11	6,289.72	4,257.06	4,166.28	90.77	46.898	
10,900.00	7,618.00	7,887.48	7,563.21	67.95	42.81	-89.86	-3,438.11	6,289.71	4,188.79	4,098.99	89.80	46.646	
11,000.00	7,618.00	7,887.33	7,563.06	67.95	42.81	-89.85	-3,438.11	6,289.71	4,121.82	4,032.96	88.86	46.388	
11,100.00	7,618.00	7,887.17	7,562.91	67.97	42.81	-89.85	-3,438.11	6,289.71	4,056.21	3,968.26	87.95	46.120	
11,200.00	7,618.00	7,887.01	7,562.75	68.04	42.81	-89.85	-3,438.11	6,289.71	3,992.03	3,904.93	87.09	45.837	
11,300.00	7,618.00	7,886.85	7,562.59	68.15	42.81	-89.84	-3,438.11	6,289.71	3,929.34	3,843.05	86.29	45.536	
11,400.00	7,618.00	7,886.69	7,562.42	68.30	42.81	-89.84	-3,438.11	6,289.71	3,868.22	3,782.66	85.56	45.209	
11,500.00	7,618.00	7,886.52	7,562.25	68.50	42.80	-89.84	-3,438.11	6,289.71	3,808.75	3,723.83	84.92	44.853	
11,600.00	7,618.00	7,886.34	7,562.08	68.75	42.80	-89.83	-3,438.11	6,289.71	3,751.00	3,666.63	84.37	44.461	
11,700.00	7,618.00	7,886.16	7,561.90	69.06	42.80	-89.83	-3,438.11	6,289.71	3,695.06	3,611.13	83.93	44.027	
11,800.00	7,618.00	7,885.98	7,561.71	69.44	42.80	-89.83	-3,438.12	6,289.70	3,641.00	3,557.39	83.61	43.546	
11,900.00	7,618.00	7,885.79	7,561.52	69.88	42.80	-89.82	-3,438.12	6,289.70	3,588.92	3,505.48	83.44	43.014	
12,000.00	7,618.00	7,885.59	7,561.33	70.39	42.80	-89.82	-3,438.12	6,289.70	3,538.89	3,455.48	83.41	42.427	
12,100.00	7,618.00	7,885.39	7,561.13	70.97	42.80	-89.82	-3,438.12	6,289.70	3,491.01	3,407.46	83.55	41.783	
12,200.00	7,618.00	7,885.19	7,560.92	71.63	42.80	-89.81	-3,438.12	6,289.70	3,445.38	3,361.51	83.86	41.083	
12,300.00	7,618.00	7,884.97	7,560.71	72.35	42.80	-89.81	-3,438.12	6,289.70	3,402.07	3,317.71	84.36	40.327	
12,400.00	7,618.00	7,884.76	7,560.49	73.15	42.80	-89.80	-3,438.12	6,289.70	3,361.17	3,276.13	85.05	39.522	
12,500.00	7,618.00	7,884.53	7,560.27	74.01	42.80	-89.80	-3,438.12	6,289.70	3,322.79	3,236.86	85.93	38.671	
12,600.00	7,618.00	7,884.30	7,560.04	74.93	42.80	-89.80	-3,438.12	6,289.70	3,287.00	3,200.00	87.00	37.783	
12,700.00	7,618.00	7,884.06	7,559.80	75.91	42.80	-89.79	-3,438.12	6,289.69	3,253.89	3,165.63	88.26	36.866	
12,800.00	7,618.00	7,883.81	7,559.55	76.95	42.80	-89.79	-3,438.13	6,289.69	3,223.54	3,133.83	89.71	35.932	
12,900.00	7,618.00	7,883.56	7,559.30	78.04	42.80	-89.78	-3,438.13	6,289.69	3,196.04	3,104.69	91.34	34.989	
13,000.00	7,618.00	7,883.30	7,559.03	79.16	42.80	-89.78	-3,438.13	6,289.69	3,171.45	3,078.30	93.14	34.049	
13,100.00	7,618.00	7,883.03	7,558.76	80.33	42.80	-89.77	-3,438.13	6,289.69	3,149.84	3,054.74	95.10	33.120	
13,200.00	7,618.00	7,882.75	7,558.48	81.54	42.80	-89.77	-3,438.13	6,289.69	3,131.29	3,034.08	97.21	32.212	
13,300.00	7,618.00	7,882.46	7,558.19	82.78	42.80	-89.76	-3,438.13	6,289.69	3,115.83	3,016.39	99.44	31.333	
13,400.00	7,618.00	7,882.16	7,557.89	84.05	42.80	-89.76	-3,438.14	6,289.68	3,103.52	3,001.73	101.79	30.490	
13,500.00	7,618.00	7,881.85	7,557.58	85.35	42.79	-89.75	-3,438.14	6,289.68	3,094.39	2,990.16	104.23	29.688	
13,600.00	7,618.00	7,881.53	7,557.26	86.67	42.79	-89.74	-3,438.14	6,289.68	3,088.48	2,981.73	106.75	28.932	
13,700.00	7,618.00	7,881.19	7,556.93	88.02	42.79	-89.74	-3,438.14	6,289.68	3,085.79	2,976.46	109.33	28.225	
13,732.85	7,618.00	7,881.08	7,556.82	88.46	42.79	-89.74	-3,438.14	6,289.68	3,085.62	2,975.43	110.19	28.003 CC	
13,800.00	7,618.00	7,880.85	7,556.59	89.38	42.79	-89.73	-3,438.14	6,289.68	3,086.35	2,974.40	111.95	27.569 ES	
13,900.00	7,618.00	7,880.49	7,556.23	90.77	42.79	-89.73	-3,438.15	6,289.68	3,090.14	2,975.54	114.60	26.965	
14,000.00	7,618.00	7,880.12	7,555.86	92.17	42.79	-89.72	-3,438.15	6,289.67	3,097.16	2,979.91	117.25	26.415	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,618.00	7,879.73	7,555.47	93.59	42.79	-89.71	-3,438.15	6,289.67	3,107.38	2,987.49	119.89	25.918	
14,200.00	7,618.00	7,879.33	7,555.07	95.02	42.79	-89.70	-3,438.15	6,289.67	3,120.78	2,998.26	122.51	25.473	
14,300.00	7,618.00	7,878.91	7,554.65	96.47	42.79	-89.70	-3,438.16	6,289.67	3,137.30	3,012.21	125.10	25.079	
14,400.00	7,618.00	7,878.48	7,554.21	97.93	42.79	-89.69	-3,438.16	6,289.67	3,156.91	3,029.29	127.63	24.735	
14,500.00	7,618.00	7,878.02	7,553.76	99.41	42.79	-89.68	-3,438.16	6,289.67	3,179.55	3,049.45	130.10	24.439	
14,600.00	7,618.00	7,877.55	7,553.28	100.89	42.79	-89.67	-3,438.17	6,289.66	3,205.15	3,072.65	132.50	24.190	
14,700.00	7,618.00	7,877.05	7,552.79	102.38	42.78	-89.66	-3,438.17	6,289.66	3,233.63	3,098.81	134.82	23.985	
14,800.00	7,618.00	7,876.53	7,552.27	103.89	42.78	-89.65	-3,438.17	6,289.66	3,264.94	3,127.88	137.06	23.822	
14,900.00	7,618.00	7,875.99	7,551.73	105.40	42.78	-89.64	-3,438.18	6,289.66	3,298.97	3,159.77	139.20	23.699	
15,000.00	7,618.00	7,875.42	7,551.16	106.92	42.78	-89.63	-3,438.18	6,289.66	3,335.66	3,194.41	141.25	23.615	
15,100.00	7,618.00	7,874.83	7,550.57	108.45	42.78	-89.62	-3,438.19	6,289.66	3,374.92	3,231.71	143.21	23.566	
15,200.00	7,618.00	7,874.20	7,549.94	109.99	42.78	-89.61	-3,438.19	6,289.65	3,416.65	3,271.58	145.07	23.552	SF
15,300.00	7,618.00	7,873.55	7,549.28	111.54	42.78	-89.60	-3,438.20	6,289.65	3,460.77	3,313.94	146.83	23.570	
15,400.00	7,618.00	7,872.85	7,548.59	113.09	42.77	-89.58	-3,438.20	6,289.65	3,507.18	3,358.69	148.49	23.619	
15,500.00	7,618.00	7,872.12	7,547.86	114.65	42.77	-89.57	-3,438.21	6,289.65	3,555.81	3,405.75	150.06	23.696	
15,600.00	7,618.00	7,871.35	7,547.09	116.21	42.77	-89.56	-3,438.22	6,289.65	3,606.54	3,455.01	151.53	23.801	
15,700.00	7,618.00	7,870.54	7,546.28	117.78	42.77	-89.54	-3,438.23	6,289.65	3,659.31	3,506.40	152.91	23.931	
15,800.00	7,618.00	7,869.68	7,545.41	119.36	42.77	-89.52	-3,438.23	6,289.64	3,714.03	3,559.82	154.21	24.085	
15,900.00	7,618.00	7,868.76	7,544.50	120.94	42.77	-89.51	-3,438.24	6,289.64	3,770.60	3,615.18	155.42	24.261	
16,000.00	7,618.00	7,867.79	7,543.53	122.53	42.76	-89.49	-3,438.25	6,289.64	3,828.94	3,672.40	156.54	24.459	
16,100.00	7,618.00	7,866.76	7,542.49	124.12	42.76	-89.47	-3,438.27	6,289.64	3,888.99	3,731.39	157.59	24.677	
16,200.00	7,618.00	7,865.65	7,541.39	125.72	42.76	-89.45	-3,438.28	6,289.64	3,950.65	3,792.08	158.57	24.914	
16,300.00	7,618.00	7,864.47	7,540.21	127.32	42.76	-89.43	-3,438.29	6,289.64	4,013.85	3,854.38	159.48	25.169	
16,400.00	7,618.00	7,863.21	7,538.94	128.93	42.75	-89.40	-3,438.31	6,289.64	4,078.53	3,918.21	160.32	25.440	
16,500.00	7,618.00	7,861.85	7,537.59	130.54	42.75	-89.38	-3,438.32	6,289.64	4,144.61	3,983.52	161.09	25.728	
16,600.00	7,618.00	7,860.38	7,536.12	132.15	42.75	-89.35	-3,438.34	6,289.64	4,212.03	4,050.22	161.81	26.030	
16,700.00	7,618.00	7,858.80	7,534.54	133.77	42.74	-89.32	-3,438.36	6,289.64	4,280.72	4,118.25	162.48	26.347	
16,800.00	7,618.00	7,857.09	7,532.83	135.39	42.74	-89.29	-3,438.39	6,289.65	4,350.63	4,187.54	163.09	26.676	
16,900.00	7,618.00	7,855.23	7,530.97	137.01	42.74	-89.26	-3,438.42	6,289.65	4,421.69	4,258.04	163.65	27.019	
17,000.00	7,618.00	7,853.20	7,528.94	138.64	42.73	-89.22	-3,438.45	6,289.65	4,493.85	4,329.69	164.17	27.373	
17,100.00	7,618.00	7,850.97	7,526.71	140.27	42.73	-89.18	-3,438.48	6,289.66	4,567.07	4,402.42	164.65	27.739	
17,200.00	7,618.00	7,848.52	7,524.26	141.91	42.72	-89.13	-3,438.52	6,289.67	4,641.28	4,476.20	165.08	28.115	
17,300.00	7,618.00	7,845.81	7,521.55	143.55	42.72	-89.08	-3,438.57	6,289.68	4,716.44	4,550.96	165.48	28.501	
17,400.00	7,618.00	7,842.80	7,518.54	145.19	42.71	-89.03	-3,438.63	6,289.70	4,792.51	4,626.66	165.85	28.897	
17,500.00	7,618.00	7,839.44	7,515.18	146.83	42.70	-88.96	-3,438.69	6,289.72	4,869.44	4,703.26	166.18	29.302	
17,600.00	7,618.00	7,835.65	7,511.39	148.48	42.69	-88.89	-3,438.77	6,289.74	4,947.20	4,780.71	166.49	29.715	
17,700.00	7,618.00	7,831.36	7,507.10	150.13	42.68	-88.81	-3,438.87	6,289.78	5,025.74	4,858.98	166.76	30.137	
17,800.00	7,618.00	7,826.45	7,502.19	151.78	42.67	-88.72	-3,438.98	6,289.82	5,105.03	4,938.01	167.02	30.566	
17,900.00	7,618.00	7,822.06	7,497.81	153.43	42.66	-88.64	-3,439.09	6,289.87	5,185.04	5,017.79	167.25	31.002	
18,000.00	7,618.00	7,819.56	7,495.31	155.09	42.66	-88.59	-3,439.16	6,289.90	5,265.72	5,098.27	167.45	31.447	
18,100.00	7,618.00	7,817.05	7,492.80	156.75	42.65	-88.55	-3,439.22	6,289.93	5,347.06	5,179.43	167.63	31.897	
18,200.00	7,618.00	7,814.53	7,490.28	158.41	42.65	-88.50	-3,439.29	6,289.95	5,429.02	5,261.22	167.80	32.355	
18,300.00	7,618.00	7,812.01	7,487.76	160.07	42.64	-88.45	-3,439.35	6,289.98	5,511.57	5,343.63	167.94	32.818	
18,400.00	7,618.00	7,809.48	7,485.24	161.74	42.64	-88.41	-3,439.42	6,290.01	5,594.70	5,426.62	168.08	33.287	
18,500.00	7,618.00	7,806.95	7,482.71	163.41	42.63	-88.36	-3,439.48	6,290.04	5,678.36	5,510.17	168.19	33.761	
18,600.00	7,618.00	7,804.42	7,480.17	165.08	42.63	-88.31	-3,439.55	6,290.07	5,762.55	5,594.25	168.29	34.241	
18,700.00	7,618.00	7,801.88	7,477.63	166.75	42.62	-88.27	-3,439.62	6,290.10	5,847.23	5,678.85	168.38	34.726	
18,711.30	7,618.00	7,801.59	7,477.34	166.94	42.62	-88.26	-3,439.62	6,290.10	5,856.83	5,688.44	168.39	34.781	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	81.92	771.79	5,435.24	5,490.50				
100.00	100.00	10.00	10.00	0.13	0.08	81.92	771.79	5,435.24	5,489.77	5,489.55	0.21	N/A	
200.00	200.00	110.00	110.00	0.49	0.95	81.92	771.79	5,435.24	5,489.77	5,488.32	1.44	3,801.503	
300.00	300.00	210.00	210.00	0.85	2.70	81.92	771.79	5,435.24	5,489.77	5,486.22	3.55	1,547.326	
400.00	400.00	310.00	310.00	1.21	4.44	81.92	771.79	5,435.24	5,489.77	5,484.11	5.65	971.347	
500.00	500.00	410.00	410.00	1.57	6.19	81.92	771.79	5,435.24	5,489.77	5,482.01	7.76	707.854	
600.00	600.00	510.00	510.00	1.93	7.93	81.92	771.79	5,435.24	5,489.77	5,479.91	9.86	556.810	
700.00	700.00	610.00	610.00	2.29	9.68	81.92	771.79	5,435.24	5,489.77	5,477.80	11.96	458.891	
800.00	800.00	710.00	710.00	2.64	11.42	81.92	771.79	5,435.24	5,489.77	5,475.70	14.07	390.261	
900.00	900.00	810.00	810.00	3.00	13.17	81.92	771.79	5,435.24	5,489.77	5,473.59	16.17	339.488	
1,000.00	999.98	909.98	909.98	3.36	14.91	24.75	771.79	5,435.24	5,488.18	5,469.91	18.27	300.391	
1,100.00	1,099.84	1,009.84	1,009.84	3.71	16.66	24.81	771.79	5,435.24	5,483.43	5,463.06	20.37	269.249	
1,200.00	1,199.45	1,109.45	1,109.45	4.07	18.39	24.92	771.79	5,435.24	5,475.51	5,453.06	22.46	243.803	
1,300.00	1,298.70	1,208.70	1,208.70	4.44	20.13	25.06	771.79	5,435.24	5,464.45	5,439.91	24.55	222.604	
1,400.00	1,397.47	1,307.47	1,307.47	4.82	21.85	25.26	771.79	5,435.24	5,450.26	5,423.63	26.63	204.653	
1,500.00	1,495.62	1,405.62	1,405.62	5.22	23.56	25.49	771.79	5,435.24	5,432.97	5,404.26	28.71	189.241	
1,600.00	1,593.06	1,503.06	1,503.06	5.65	25.26	25.77	771.79	5,435.24	5,412.59	5,381.81	30.78	175.849	
1,700.00	1,689.64	1,600.36	1,599.64	6.11	26.96	26.10	771.79	5,435.24	5,389.16	5,356.31	32.86	164.027	
1,800.00	1,785.27	1,704.73	1,695.27	6.61	28.78	26.48	771.79	5,435.24	5,362.73	5,327.67	35.06	152.946	
1,900.00	1,879.82	1,789.82	1,789.82	7.15	30.27	26.92	771.79	5,435.24	5,333.33	5,296.38	36.94	144.360	
2,000.00	1,973.17	1,883.17	1,883.17	7.73	31.90	27.40	771.79	5,435.24	5,301.01	5,262.02	38.98	135.983	
2,100.00	2,065.21	1,975.21	1,975.21	8.37	33.51	27.94	771.79	5,435.24	5,265.82	5,224.81	41.01	128.394	
2,200.00	2,155.84	2,065.84	2,065.84	9.07	35.09	28.55	771.79	5,435.24	5,227.82	5,184.79	43.03	121.481	
2,300.00	2,244.94	2,154.94	2,154.94	9.82	36.64	29.21	771.79	5,435.24	5,187.08	5,142.03	45.05	115.148	
2,400.00	2,332.39	2,242.39	2,242.39	10.64	38.17	29.95	771.79	5,435.24	5,143.65	5,096.60	47.05	109.318	
2,500.00	2,418.11	2,328.11	2,328.11	11.53	39.66	30.75	771.79	5,435.24	5,097.62	5,048.57	49.05	103.928	
2,558.91	2,467.74	2,377.74	2,377.74	12.08	40.53	31.26	771.79	5,435.24	5,069.32	5,019.09	50.22	100.935	
2,600.00	2,502.13	2,412.13	2,412.13	12.47	41.13	31.39	771.79	5,435.24	5,049.28	4,998.24	51.04	98.924	
2,700.00	2,585.83	2,504.17	2,495.83	13.45	42.74	31.70	771.79	5,435.24	5,000.60	4,947.42	53.19	94.018	
2,800.00	2,669.53	2,579.53	2,579.53	14.44	44.05	32.02	771.79	5,435.24	4,952.05	4,896.99	55.06	89.938	
2,900.00	2,753.22	2,663.22	2,663.22	15.46	45.51	32.34	771.79	5,435.24	4,903.64	4,846.54	57.10	85.883	
3,000.00	2,836.92	2,746.92	2,746.92	16.48	46.97	32.67	771.79	5,435.24	4,855.35	4,796.20	59.15	82.087	
3,100.00	2,920.62	2,830.62	2,830.62	17.52	48.43	33.01	771.79	5,435.24	4,807.20	4,745.99	61.22	78.528	
3,200.00	3,004.32	2,914.32	2,914.32	18.56	49.90	33.35	771.79	5,435.24	4,759.20	4,695.90	63.30	75.187	
3,300.00	3,088.01	3,001.99	2,998.01	19.61	51.43	33.70	771.79	5,435.24	4,711.34	4,645.88	65.46	71.968	
3,400.00	3,171.71	3,081.71	3,081.71	20.67	52.82	34.06	771.79	5,435.24	4,663.63	4,596.13	67.50	69.086	
3,500.00	3,255.41	3,165.41	3,165.41	21.73	54.28	34.42	771.79	5,435.24	4,616.08	4,546.45	69.63	66.296	
3,600.00	3,339.10	3,249.10	3,249.10	22.80	55.74	34.79	771.79	5,435.24	4,568.69	4,496.93	71.76	63.662	
3,700.00	3,422.80	3,332.80	3,332.80	23.87	57.20	35.16	771.79	5,435.24	4,521.47	4,447.55	73.91	61.172	
3,800.00	3,506.50	3,416.50	3,416.50	24.94	58.66	35.54	771.79	5,435.24	4,474.41	4,398.33	76.08	58.814	
3,900.00	3,590.20	3,500.20	3,500.20	26.02	60.12	35.93	771.79	5,435.24	4,427.53	4,349.28	78.25	56.580	
4,000.00	3,673.89	3,583.89	3,583.89	27.10	61.58	36.33	771.79	5,435.24	4,380.84	4,300.39	80.44	54.460	
4,100.00	3,757.59	3,667.59	3,667.59	28.18	63.04	36.74	771.79	5,435.24	4,334.33	4,251.68	82.64	52.446	
4,200.00	3,841.29	3,751.29	3,751.29	29.26	64.50	37.15	771.79	5,435.24	4,288.01	4,203.15	84.86	50.531	
4,300.00	3,924.99	3,834.99	3,834.99	30.35	65.96	37.57	771.79	5,435.24	4,241.90	4,154.81	87.09	48.708	
4,400.00	4,008.68	3,918.68	3,918.68	31.44	67.43	38.00	771.79	5,435.24	4,195.99	4,106.66	89.33	46.972	
4,500.00	4,092.38	4,002.38	4,002.38	32.52	68.89	38.44	771.79	5,435.24	4,150.30	4,058.71	91.59	45.316	
4,600.00	4,176.08	4,086.08	4,086.08	33.62	70.35	38.88	771.79	5,435.24	4,104.83	4,010.97	93.86	43.736	
4,700.00	4,259.77	4,169.77	4,169.77	34.71	71.81	39.34	771.79	5,435.24	4,059.58	3,963.44	96.14	42.226	
4,800.00	4,343.47	4,253.47	4,253.47	35.80	73.27	39.80	771.79	5,435.24	4,014.57	3,916.14	98.44	40.783	
4,900.00	4,427.17	4,337.17	4,337.17	36.89	74.73	40.27	771.79	5,435.24	3,969.81	3,869.06	100.75	39.402	
5,000.00	4,510.87	4,420.87	4,420.87	37.99	76.19	40.76	771.79	5,435.24	3,925.30	3,822.22	103.08	38.080	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	4,504.56	4,504.56	39.08	77.65	41.25	771.79	5,435.24	3,881.05	3,775.63	105.42	36.814	
5,200.00	4,678.26	4,588.26	4,588.26	40.18	79.11	41.75	771.79	5,435.24	3,837.07	3,729.29	107.78	35.600	
5,300.00	4,761.96	4,671.96	4,671.96	41.28	80.57	42.26	771.79	5,435.24	3,793.37	3,683.21	110.16	34.436	
5,400.00	4,845.66	4,755.66	4,755.66	42.37	82.03	42.78	771.79	5,435.24	3,749.96	3,637.41	112.55	33.318	
5,500.00	4,929.35	4,839.35	4,839.35	43.47	83.49	43.32	771.79	5,435.24	3,706.85	3,591.89	114.96	32.245	
5,600.00	5,013.05	4,923.05	4,923.05	44.57	84.95	43.86	771.79	5,435.24	3,664.04	3,546.66	117.38	31.215	
5,700.00	5,096.75	5,006.75	5,006.75	45.67	86.42	44.41	771.79	5,435.24	3,621.56	3,501.74	119.83	30.224	
5,800.00	5,180.45	5,109.56	5,090.45	46.77	88.21	44.98	771.79	5,435.24	3,579.42	3,456.80	122.62	29.191	
5,900.00	5,264.14	5,174.14	5,174.14	47.87	89.34	45.56	771.79	5,435.24	3,537.61	3,412.85	124.76	28.354	
6,000.00	5,347.84	5,257.84	5,257.84	48.97	90.80	46.14	771.79	5,435.24	3,496.17	3,368.90	127.26	27.472	
6,100.00	5,431.54	5,341.54	5,341.54	50.07	92.26	46.74	771.79	5,435.24	3,455.09	3,325.31	129.78	26.623	
6,200.00	5,515.23	5,425.23	5,425.23	51.17	93.72	47.36	771.79	5,435.24	3,414.39	3,282.08	132.31	25.806	
6,300.00	5,598.93	5,508.93	5,508.93	52.27	95.18	47.98	771.79	5,435.24	3,374.10	3,239.23	134.87	25.018	
6,400.00	5,682.63	5,607.37	5,592.63	53.38	96.90	48.62	771.79	5,435.24	3,334.21	3,196.51	137.70	24.214	
6,500.00	5,766.33	5,676.33	5,676.33	54.48	98.10	49.27	771.79	5,435.24	3,294.75	3,154.72	140.04	23.528	
6,600.00	5,850.02	5,760.02	5,760.02	55.58	99.56	49.93	771.79	5,435.24	3,255.73	3,113.08	142.65	22.823	
6,700.00	5,933.72	5,843.72	5,843.72	56.68	101.02	50.61	771.79	5,435.24	3,217.17	3,071.89	145.28	22.144	
6,800.00	6,017.42	5,927.42	5,927.42	57.79	102.48	51.30	771.79	5,435.24	3,179.08	3,031.14	147.94	21.489	
6,900.00	6,101.12	6,011.12	6,011.12	58.89	103.95	52.00	771.79	5,435.24	3,141.49	2,990.87	150.62	20.858	
7,000.00	6,184.81	6,105.19	6,094.81	59.99	105.59	52.72	771.79	5,435.24	3,104.40	2,950.91	153.49	20.225	
7,100.00	6,268.51	6,178.51	6,178.51	61.10	106.87	53.45	771.79	5,435.24	3,067.85	2,911.82	156.03	19.662	
7,200.00	6,352.21	6,262.21	6,262.21	62.20	108.33	54.19	771.79	5,435.24	3,031.84	2,873.07	158.77	19.096	
7,300.00	6,435.90	6,345.90	6,345.90	63.31	109.79	54.95	771.79	5,435.24	2,996.39	2,834.86	161.53	18.550	
7,400.00	6,519.60	6,429.60	6,429.60	64.41	111.25	55.72	771.79	5,435.24	2,961.54	2,797.22	164.31	18.024	
7,500.00	6,603.30	6,513.30	6,513.30	65.51	112.71	56.51	771.79	5,435.24	2,927.29	2,760.18	167.11	17.517	
7,600.00	6,687.00	6,603.00	6,597.00	66.62	114.28	57.31	771.79	5,435.24	2,893.67	2,723.63	170.04	17.018	
7,700.00	6,770.69	6,680.69	6,680.69	67.72	115.63	58.13	771.79	5,435.24	2,860.70	2,687.93	172.77	16.557	
7,800.00	6,854.39	6,764.39	6,764.39	68.83	117.09	58.96	771.79	5,435.24	2,828.41	2,652.77	175.63	16.104	
7,900.00	6,938.09	6,848.09	6,848.09	69.93	118.55	59.81	771.79	5,435.24	2,796.81	2,618.30	178.51	15.667	
7,933.18	6,965.86	6,875.86	6,875.86	70.30	119.04	60.09	771.79	5,435.24	2,786.49	2,607.01	179.47	15.526	
7,950.00	6,980.00	6,890.00	6,890.00	70.49	119.28	57.43	771.79	5,435.24	2,781.16	2,601.21	179.96	15.455	
8,000.00	7,022.68	6,932.68	6,932.68	71.01	120.03	48.69	771.79	5,435.24	2,764.02	2,582.68	181.34	15.242	
8,050.00	7,066.06	6,976.06	6,976.06	71.51	120.79	38.78	771.79	5,435.24	2,744.95	2,562.31	182.64	15.029	
8,100.00	7,109.82	7,019.82	7,019.82	71.97	121.55	28.02	771.79	5,435.24	2,724.05	2,540.21	183.84	14.818	
8,150.00	7,153.63	7,063.63	7,063.63	72.38	122.31	16.86	771.79	5,435.24	2,701.41	2,516.48	184.93	14.608	
8,200.00	7,197.14	7,107.14	7,107.14	72.74	123.07	5.79	771.79	5,435.24	2,677.18	2,491.28	185.90	14.401	
8,250.00	7,240.04	7,150.04	7,150.04	73.05	123.82	-4.82	771.79	5,435.24	2,651.52	2,464.78	186.74	14.199	
8,300.00	7,281.99	7,208.01	7,191.99	73.31	124.83	-14.78	771.79	5,435.24	2,624.63	2,436.90	187.73	13.981	
8,350.00	7,322.67	7,232.67	7,232.67	73.52	125.27	-24.04	771.79	5,435.24	2,596.73	2,408.71	188.01	13.811	
8,400.00	7,361.77	7,271.77	7,271.77	73.68	125.95	-32.64	771.79	5,435.24	2,568.06	2,379.62	188.44	13.628	
8,450.00	7,399.01	7,309.01	7,309.01	73.78	126.60	-40.64	771.79	5,435.24	2,538.91	2,350.20	188.71	13.454	
8,500.00	7,434.08	7,344.08	7,344.08	73.85	127.21	-48.07	771.79	5,435.24	2,509.57	2,320.74	188.83	13.290	
8,550.00	7,466.74	7,376.74	7,376.74	73.87	127.78	-54.96	771.79	5,435.24	2,480.37	2,291.57	188.80	13.137	
8,600.00	7,496.72	7,406.72	7,406.72	73.85	128.30	-61.29	771.79	5,435.24	2,451.63	2,263.01	188.62	12.998	
8,650.00	7,523.80	7,433.80	7,433.80	73.79	128.78	-67.04	771.79	5,435.24	2,423.69	2,235.40	188.28	12.872	
8,700.00	7,547.77	7,457.77	7,457.77	73.70	129.19	-72.19	771.79	5,435.24	2,396.90	2,209.10	187.81	12.763	
8,750.00	7,568.45	7,478.45	7,478.45	73.58	129.55	-76.71	771.79	5,435.24	2,371.61	2,184.43	187.18	12.670	
8,800.00	7,585.69	7,504.31	7,495.69	73.43	130.01	-80.59	771.79	5,435.24	2,348.15	2,161.56	186.58	12.585	
8,850.00	7,599.35	7,509.35	7,509.35	73.26	130.09	-83.84	771.79	5,435.24	2,326.82	2,141.27	185.56	12.540	
8,900.00	7,609.33	7,519.33	7,519.33	73.07	130.27	-86.46	771.79	5,435.24	2,307.93	2,123.35	184.57	12.504	
8,950.00	7,615.55	7,525.55	7,525.55	72.87	130.38	-88.46	771.79	5,435.24	2,291.72	2,108.22	183.50	12.489	SF
9,000.00	7,617.97	7,527.97	7,527.97	72.65	130.42	-89.86	771.79	5,435.24	2,278.40	2,096.06	182.34	12.495	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,006.60	7,618.00	7,528.00	7,528.00	72.62	130.42	-90.00	771.79	5,435.24	2,276.87	2,094.69	182.18	12.498	
9,100.00	7,618.00	7,528.00	7,528.00	72.22	130.42	-90.00	771.79	5,435.24	2,257.40	2,077.43	179.97	12.543	
9,200.00	7,618.00	7,528.00	7,528.00	71.80	130.42	-90.00	771.79	5,435.24	2,240.69	2,063.00	177.70	12.610	
9,300.00	7,618.00	7,528.00	7,528.00	71.41	130.42	-90.00	771.79	5,435.24	2,228.35	2,052.78	175.57	12.692	
9,400.00	7,618.00	7,528.00	7,528.00	71.04	130.42	-90.00	771.79	5,435.24	2,220.44	2,046.80	173.64	12.788	
9,500.00	7,618.00	7,528.00	7,528.00	70.68	130.42	-90.00	771.79	5,435.24	2,217.02	2,045.04	171.98	12.891	ES
9,525.84	7,618.00	7,528.00	7,528.00	70.60	130.42	-90.00	771.79	5,435.24	2,216.87	2,045.26	171.61	12.918	CC
9,600.00	7,618.00	7,528.00	7,528.00	70.35	130.42	-90.00	771.79	5,435.24	2,218.11	2,047.47	170.64	12.999	
9,700.00	7,618.00	7,528.00	7,528.00	70.04	130.42	-90.00	771.79	5,435.24	2,223.70	2,054.03	169.68	13.106	
9,800.00	7,618.00	7,528.00	7,528.00	69.75	130.42	-90.00	771.79	5,435.24	2,233.76	2,064.65	169.11	13.209	
9,900.00	7,618.00	7,528.00	7,528.00	69.47	130.42	-90.00	771.79	5,435.24	2,248.23	2,079.26	168.97	13.306	
10,000.00	7,618.00	7,528.00	7,528.00	69.22	130.42	-90.00	771.79	5,435.24	2,267.02	2,097.79	169.23	13.396	
10,100.00	7,618.00	7,528.00	7,528.00	68.99	130.42	-90.00	771.79	5,435.24	2,290.02	2,120.15	169.87	13.481	
10,200.00	7,618.00	7,528.00	7,528.00	68.78	130.42	-90.00	771.79	5,435.24	2,317.12	2,146.28	170.84	13.563	
10,300.00	7,618.00	7,528.00	7,528.00	68.59	130.42	-90.00	771.79	5,435.24	2,348.16	2,176.08	172.08	13.646	
10,400.00	7,618.00	7,528.00	7,528.00	68.42	130.42	-90.00	771.79	5,435.24	2,383.00	2,209.46	173.55	13.731	
10,500.00	7,618.00	7,528.00	7,528.00	68.28	130.42	-90.00	771.79	5,435.24	2,421.47	2,246.30	175.17	13.824	
10,600.00	7,618.00	7,528.00	7,528.00	68.16	130.42	-90.00	771.79	5,435.24	2,463.40	2,286.50	176.90	13.925	
10,700.00	7,618.00	7,528.00	7,528.00	68.06	130.42	-90.00	771.79	5,435.24	2,508.62	2,329.92	178.71	14.038	
10,800.00	7,618.00	7,528.00	7,528.00	67.99	130.42	-90.00	771.79	5,435.24	2,556.96	2,376.42	180.54	14.163	
10,900.00	7,618.00	7,528.00	7,528.00	67.95	130.42	-90.00	771.79	5,435.24	2,608.23	2,425.85	182.38	14.301	
11,000.00	7,618.00	7,528.00	7,528.00	67.95	130.42	-90.00	771.79	5,435.24	2,662.27	2,478.08	184.20	14.453	
11,100.00	7,618.00	7,528.00	7,528.00	67.97	130.42	-90.00	771.79	5,435.24	2,718.92	2,532.94	185.98	14.620	
11,200.00	7,618.00	7,528.00	7,528.00	68.04	130.42	-90.00	771.79	5,435.24	2,778.01	2,590.30	187.71	14.799	
11,300.00	7,618.00	7,528.00	7,528.00	68.15	130.42	-90.00	771.79	5,435.24	2,839.40	2,650.01	189.39	14.993	
11,400.00	7,618.00	7,528.00	7,528.00	68.30	130.42	-90.00	771.79	5,435.24	2,902.93	2,711.93	191.00	15.199	
11,500.00	7,618.00	7,528.00	7,528.00	68.50	130.42	-90.00	771.79	5,435.24	2,968.48	2,775.93	192.55	15.417	
11,600.00	7,618.00	7,528.00	7,528.00	68.75	130.42	-90.00	771.79	5,435.24	3,035.90	2,841.87	194.02	15.647	
11,700.00	7,618.00	7,528.00	7,528.00	69.06	130.42	-90.00	771.79	5,435.24	3,105.08	2,909.65	195.43	15.888	
11,800.00	7,618.00	7,528.00	7,528.00	69.44	130.42	-90.00	771.79	5,435.24	3,175.90	2,979.13	196.77	16.140	
11,900.00	7,618.00	7,528.00	7,528.00	69.88	130.42	-90.00	771.79	5,435.24	3,248.26	3,050.21	198.05	16.401	
12,000.00	7,618.00	7,528.00	7,528.00	70.39	130.42	-90.00	771.79	5,435.24	3,322.05	3,122.79	199.26	16.672	
12,100.00	7,618.00	7,528.00	7,528.00	70.97	130.42	-90.00	771.79	5,435.24	3,397.18	3,196.78	200.41	16.951	
12,200.00	7,618.00	7,528.00	7,528.00	71.63	130.42	-90.00	771.79	5,435.24	3,473.57	3,272.07	201.49	17.239	
12,300.00	7,618.00	7,528.00	7,528.00	72.35	130.42	-90.00	771.79	5,435.24	3,551.13	3,348.60	202.53	17.534	
12,400.00	7,618.00	7,528.00	7,528.00	73.15	130.42	-90.00	771.79	5,435.24	3,629.79	3,426.28	203.50	17.837	
12,500.00	7,618.00	7,528.00	7,528.00	74.01	130.42	-90.00	771.79	5,435.24	3,709.47	3,505.04	204.43	18.146	
12,600.00	7,618.00	7,528.00	7,528.00	74.93	130.42	-90.00	771.79	5,435.24	3,790.12	3,584.81	205.31	18.461	
12,700.00	7,618.00	7,528.00	7,528.00	75.91	130.42	-90.00	771.79	5,435.24	3,871.67	3,665.53	206.14	18.782	
12,800.00	7,618.00	7,528.00	7,528.00	76.95	130.42	-90.00	771.79	5,435.24	3,954.07	3,747.14	206.93	19.109	
12,900.00	7,618.00	7,528.00	7,528.00	78.04	130.42	-90.00	771.79	5,435.24	4,037.27	3,829.59	207.68	19.440	
13,000.00	7,618.00	7,528.00	7,528.00	79.16	130.42	-90.00	771.79	5,435.24	4,121.21	3,912.82	208.39	19.777	
13,100.00	7,618.00	7,528.00	7,528.00	80.33	130.42	-90.00	771.79	5,435.24	4,205.85	3,996.79	209.06	20.118	
13,200.00	7,618.00	7,528.00	7,528.00	81.54	130.42	-90.00	771.79	5,435.24	4,291.15	4,081.45	209.70	20.463	
13,300.00	7,618.00	7,528.00	7,528.00	82.78	130.42	-90.00	771.79	5,435.24	4,377.08	4,166.77	210.31	20.812	
13,400.00	7,618.00	7,528.00	7,528.00	84.05	130.42	-90.00	771.79	5,435.24	4,463.59	4,252.70	210.89	21.165	
13,500.00	7,618.00	7,528.00	7,528.00	85.35	130.42	-90.00	771.79	5,435.24	4,550.66	4,339.22	211.44	21.522	
13,600.00	7,618.00	7,528.00	7,528.00	86.67	130.42	-90.00	771.79	5,435.24	4,638.25	4,426.28	211.97	21.882	
13,700.00	7,618.00	7,528.00	7,528.00	88.02	130.42	-90.00	771.79	5,435.24	4,726.33	4,513.86	212.47	22.245	
13,800.00	7,618.00	7,528.00	7,528.00	89.38	130.42	-90.00	771.79	5,435.24	4,814.87	4,601.93	212.95	22.611	
13,900.00	7,618.00	7,528.00	7,528.00	90.77	130.42	-90.00	771.79	5,435.24	4,903.86	4,690.46	213.40	22.979	
14,000.00	7,618.00	7,528.00	7,528.00	92.17	130.42	-90.00	771.79	5,435.24	4,993.26	4,779.43	213.84	23.351	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,618.00	7,528.00	7,528.00	93.59	130.42	-90.00	771.79	5,435.24	5,083.06	4,868.81	214.25	23.724	
14,200.00	7,618.00	7,528.00	7,528.00	95.02	130.42	-90.00	771.79	5,435.24	5,173.23	4,958.58	214.65	24.101	
14,300.00	7,618.00	7,528.00	7,528.00	96.47	130.42	-90.00	771.79	5,435.24	5,263.76	5,048.73	215.03	24.479	
14,400.00	7,618.00	7,528.00	7,528.00	97.93	130.42	-90.00	771.79	5,435.24	5,354.62	5,139.23	215.40	24.859	
14,500.00	7,618.00	7,528.00	7,528.00	99.41	130.42	-90.00	771.79	5,435.24	5,445.81	5,230.06	215.75	25.242	
14,600.00	7,618.00	7,528.00	7,528.00	100.89	130.42	-90.00	771.79	5,435.24	5,537.30	5,321.21	216.08	25.626	
14,700.00	7,618.00	7,528.00	7,528.00	102.38	130.42	-90.00	771.79	5,435.24	5,629.08	5,412.67	216.41	26.012	
14,800.00	7,618.00	7,528.00	7,528.00	103.89	130.42	-90.00	771.79	5,435.24	5,721.13	5,504.42	216.72	26.399	
14,900.00	7,618.00	7,528.00	7,528.00	105.40	130.42	-90.00	771.79	5,435.24	5,813.45	5,596.43	217.01	26.789	
15,000.00	7,618.00	7,528.00	7,528.00	106.92	130.42	-90.00	771.79	5,435.24	5,906.01	5,688.72	217.30	27.179	
15,100.00	7,618.00	7,528.00	7,528.00	108.45	130.42	-90.00	771.79	5,435.24	5,998.82	5,781.25	217.57	27.571	
15,200.00	7,618.00	7,528.00	7,528.00	109.99	130.42	-90.00	771.79	5,435.24	6,091.85	5,874.01	217.84	27.965	
15,300.00	7,618.00	7,528.00	7,528.00	111.54	130.42	-90.00	771.79	5,435.24	6,185.10	5,967.01	218.09	28.360	
15,400.00	7,618.00	7,528.00	7,528.00	113.09	130.42	-90.00	771.79	5,435.24	6,278.56	6,060.22	218.34	28.756	
15,500.00	7,618.00	7,528.00	7,528.00	114.65	130.42	-90.00	771.79	5,435.24	6,372.22	6,153.64	218.58	29.153	
15,600.00	7,618.00	7,528.00	7,528.00	116.21	130.42	-90.00	771.79	5,435.24	6,466.07	6,247.26	218.81	29.551	
15,700.00	7,618.00	7,528.00	7,528.00	117.78	130.42	-90.00	771.79	5,435.24	6,560.09	6,341.06	219.03	29.951	
15,800.00	7,618.00	7,528.00	7,528.00	119.36	130.42	-90.00	771.79	5,435.24	6,654.30	6,435.05	219.24	30.351	
15,900.00	7,618.00	7,528.00	7,528.00	120.94	130.42	-90.00	771.79	5,435.24	6,748.67	6,529.21	219.45	30.752	
16,000.00	7,618.00	7,528.00	7,528.00	122.53	130.42	-90.00	771.79	5,435.24	6,843.20	6,623.54	219.65	31.155	
16,100.00	7,618.00	7,528.00	7,528.00	124.12	130.42	-90.00	771.79	5,435.24	6,937.88	6,718.03	219.85	31.558	
16,200.00	7,618.00	7,528.00	7,528.00	125.72	130.42	-90.00	771.79	5,435.24	7,032.71	6,812.67	220.04	31.962	
16,300.00	7,618.00	7,528.00	7,528.00	127.32	130.42	-90.00	771.79	5,435.24	7,127.68	6,907.46	220.22	32.366	
16,400.00	7,618.00	7,528.00	7,528.00	128.93	130.42	-90.00	771.79	5,435.24	7,222.79	7,002.39	220.40	32.772	
16,500.00	7,618.00	7,528.00	7,528.00	130.54	130.42	-90.00	771.79	5,435.24	7,318.03	7,097.46	220.57	33.178	
16,600.00	7,618.00	7,528.00	7,528.00	132.15	130.42	-90.00	771.79	5,435.24	7,413.39	7,192.65	220.74	33.585	
16,700.00	7,618.00	7,528.00	7,528.00	133.77	130.42	-90.00	771.79	5,435.24	7,508.87	7,287.97	220.90	33.992	
16,800.00	7,618.00	7,528.00	7,528.00	135.39	130.42	-90.00	771.79	5,435.24	7,604.47	7,383.41	221.06	34.400	
16,900.00	7,618.00	7,528.00	7,528.00	137.01	130.42	-90.00	771.79	5,435.24	7,700.18	7,478.97	221.21	34.809	
17,000.00	7,618.00	7,528.00	7,528.00	138.64	130.42	-90.00	771.79	5,435.24	7,796.00	7,574.64	221.36	35.218	
17,100.00	7,618.00	7,528.00	7,528.00	140.27	130.42	-90.00	771.79	5,435.24	7,891.93	7,670.42	221.51	35.628	
17,200.00	7,618.00	7,528.00	7,528.00	141.91	130.42	-90.00	771.79	5,435.24	7,987.95	7,766.30	221.65	36.039	
17,300.00	7,618.00	7,528.00	7,528.00	143.55	130.42	-90.00	771.79	5,435.24	8,084.07	7,862.28	221.79	36.449	
17,400.00	7,618.00	7,528.00	7,528.00	145.19	130.42	-90.00	771.79	5,435.24	8,180.28	7,958.36	221.92	36.861	
17,500.00	7,618.00	7,528.00	7,528.00	146.83	130.42	-90.00	771.79	5,435.24	8,276.58	8,054.53	222.06	37.272	
17,600.00	7,618.00	7,528.00	7,528.00	148.48	130.42	-90.00	771.79	5,435.24	8,372.97	8,150.79	222.19	37.685	
17,700.00	7,618.00	7,528.00	7,528.00	150.13	130.42	-90.00	771.79	5,435.24	8,469.44	8,247.13	222.31	38.097	
17,800.00	7,618.00	7,528.00	7,528.00	151.78	130.42	-90.00	771.79	5,435.24	8,566.00	8,343.56	222.44	38.510	
17,900.00	7,618.00	7,528.00	7,528.00	153.43	130.42	-90.00	771.79	5,435.24	8,662.63	8,440.07	222.56	38.923	
18,000.00	7,618.00	7,528.00	7,528.00	155.09	130.42	-90.00	771.79	5,435.24	8,759.34	8,536.66	222.67	39.337	
18,100.00	7,618.00	7,528.00	7,528.00	156.75	130.42	-90.00	771.79	5,435.24	8,856.12	8,633.33	222.79	39.751	
18,200.00	7,618.00	7,528.00	7,528.00	158.41	130.42	-90.00	771.79	5,435.24	8,952.97	8,730.07	222.90	40.165	
18,300.00	7,618.00	7,528.00	7,528.00	160.07	130.42	-90.00	771.79	5,435.24	9,049.89	8,826.87	223.01	40.580	
18,400.00	7,618.00	7,528.00	7,528.00	161.74	130.42	-90.00	771.79	5,435.24	9,146.87	8,923.75	223.12	40.995	
18,500.00	7,618.00	7,528.00	7,528.00	163.41	130.42	-90.00	771.79	5,435.24	9,243.93	9,020.70	223.23	41.410	
18,600.00	7,618.00	7,528.00	7,528.00	165.08	130.42	-90.00	771.79	5,435.24	9,341.04	9,117.70	223.33	41.825	
18,700.00	7,618.00	7,528.00	7,528.00	166.75	130.42	-90.00	771.79	5,435.24	9,438.21	9,214.77	223.44	42.241	
18,711.30	7,618.00	7,528.00	7,528.00	166.94	130.42	-90.00	771.79	5,435.24	9,449.20	9,225.75	223.45	42.288	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	115.72	-1,439.12	2,986.96	3,316.10				
100.00	100.00	41.00	41.00	0.13	0.31	115.72	-1,439.12	2,986.96	3,315.57	3,315.12	0.45	7,379.666	
200.00	200.00	141.00	141.00	0.49	1.48	115.72	-1,439.12	2,986.96	3,315.57	3,313.60	1.98	1,677.556	
300.00	300.00	241.00	241.00	0.85	3.23	115.72	-1,439.12	2,986.96	3,315.57	3,311.49	4.08	812.594	
400.00	400.00	341.00	341.00	1.21	4.97	115.72	-1,439.12	2,986.96	3,315.57	3,309.39	6.18	536.151	
500.00	500.00	441.00	441.00	1.57	6.72	115.72	-1,439.12	2,986.96	3,315.57	3,307.28	8.29	400.053	
600.00	600.00	541.00	541.00	1.93	8.46	115.72	-1,439.12	2,986.96	3,315.57	3,305.18	10.39	319.062	
700.00	700.00	641.00	641.00	2.29	10.21	115.72	-1,439.12	2,986.96	3,315.57	3,303.08	12.50	265.343	
800.00	800.00	741.00	741.00	2.64	11.96	115.72	-1,439.12	2,986.96	3,315.57	3,300.97	14.60	227.106	
900.00	900.00	841.00	841.00	3.00	13.70	115.72	-1,439.12	2,986.96	3,315.57	3,298.87	16.70	198.501	
1,000.00	999.98	940.98	940.98	3.36	15.45	58.58	-1,439.12	2,986.96	3,314.66	3,295.86	18.80	176.289	
1,100.00	1,099.84	1,040.84	1,040.84	3.71	17.19	58.70	-1,439.12	2,986.96	3,311.93	3,291.04	20.90	158.484	
1,200.00	1,199.45	1,140.45	1,140.45	4.07	18.93	58.91	-1,439.12	2,986.96	3,307.41	3,284.41	22.99	143.847	
1,300.00	1,298.70	1,239.70	1,239.70	4.44	20.66	59.19	-1,439.12	2,986.96	3,301.10	3,276.02	25.09	131.581	
1,400.00	1,397.47	1,338.47	1,338.47	4.82	22.38	59.56	-1,439.12	2,986.96	3,293.06	3,265.88	27.19	121.133	
1,500.00	1,495.62	1,436.62	1,436.62	5.22	24.10	60.02	-1,439.12	2,986.96	3,283.33	3,254.04	29.29	112.107	
1,600.00	1,593.06	1,534.06	1,534.06	5.65	25.80	60.55	-1,439.12	2,986.96	3,271.96	3,240.56	31.40	104.215	
1,700.00	1,689.64	1,630.64	1,630.64	6.11	27.48	61.17	-1,439.12	2,986.96	3,259.02	3,225.50	33.52	97.239	
1,800.00	1,785.27	1,726.27	1,726.27	6.61	29.15	61.86	-1,439.12	2,986.96	3,244.59	3,208.94	35.65	91.016	
1,900.00	1,879.82	1,820.82	1,820.82	7.15	30.80	62.63	-1,439.12	2,986.96	3,228.75	3,190.96	37.80	85.421	
2,000.00	1,973.17	1,914.17	1,914.17	7.73	32.43	63.48	-1,439.12	2,986.96	3,211.62	3,171.65	39.97	80.353	
2,100.00	2,065.21	2,006.21	2,006.21	8.37	34.04	64.40	-1,439.12	2,986.96	3,193.28	3,151.12	42.16	75.735	
2,200.00	2,155.84	2,103.16	2,096.84	9.07	35.73	65.40	-1,439.12	2,986.96	3,173.88	3,129.38	44.50	71.328	
2,300.00	2,244.94	2,185.94	2,185.94	9.82	37.17	66.46	-1,439.12	2,986.96	3,153.53	3,106.89	46.64	67.613	
2,400.00	2,332.39	2,273.39	2,273.39	10.64	38.70	67.59	-1,439.12	2,986.96	3,132.38	3,083.45	48.93	64.019	
2,500.00	2,418.11	2,359.11	2,359.11	11.53	40.20	68.77	-1,439.12	2,986.96	3,110.59	3,059.33	51.25	60.690	
2,558.91	2,467.74	2,408.74	2,408.74	12.08	41.06	69.50	-1,439.12	2,986.96	3,097.51	3,044.87	52.64	58.842	
2,600.00	2,502.13	2,443.13	2,443.13	12.47	41.66	69.83	-1,439.12	2,986.96	3,088.40	3,034.78	53.62	57.602	
2,700.00	2,585.83	2,526.83	2,526.83	13.45	43.12	70.65	-1,439.12	2,986.96	3,066.82	3,010.80	56.01	54.750	
2,800.00	2,669.53	2,610.53	2,610.53	14.44	44.58	71.48	-1,439.12	2,986.96	3,046.07	2,987.62	58.44	52.121	
2,900.00	2,753.22	2,705.78	2,694.22	15.46	46.25	72.32	-1,439.12	2,986.96	3,026.16	2,965.06	61.10	49.529	
3,000.00	2,836.92	2,777.92	2,777.92	16.48	47.51	73.17	-1,439.12	2,986.96	3,007.12	2,943.74	63.37	47.450	
3,100.00	2,920.62	2,861.62	2,861.62	17.52	48.97	74.02	-1,439.12	2,986.96	2,988.96	2,923.09	65.87	45.376	
3,200.00	3,004.32	2,945.32	2,945.32	18.56	50.43	74.88	-1,439.12	2,986.96	2,971.70	2,903.31	68.39	43.455	
3,300.00	3,088.01	3,029.01	3,029.01	19.61	51.89	75.75	-1,439.12	2,986.96	2,955.34	2,884.43	70.92	41.674	
3,400.00	3,171.71	3,112.71	3,112.71	20.67	53.35	76.63	-1,439.12	2,986.96	2,939.92	2,866.46	73.46	40.021	
3,500.00	3,255.41	3,203.59	3,196.41	21.73	54.94	77.51	-1,439.12	2,986.96	2,925.44	2,849.30	76.14	38.422	
3,600.00	3,339.10	3,280.10	3,280.10	22.80	56.27	78.39	-1,439.12	2,986.96	2,911.92	2,833.34	78.58	37.057	
3,700.00	3,422.80	3,363.80	3,363.80	23.87	57.73	79.29	-1,439.12	2,986.96	2,899.36	2,818.21	81.15	35.727	
3,800.00	3,506.50	3,447.50	3,447.50	24.94	59.19	80.19	-1,439.12	2,986.96	2,887.79	2,804.06	83.73	34.488	
3,900.00	3,590.20	3,531.20	3,531.20	26.02	60.65	81.09	-1,439.12	2,986.96	2,877.22	2,790.90	86.32	33.333	
4,000.00	3,673.89	3,614.89	3,614.89	27.10	62.11	82.00	-1,439.12	2,986.96	2,867.65	2,778.74	88.91	32.254	
4,100.00	3,757.59	3,701.41	3,698.59	28.18	63.62	82.91	-1,439.12	2,986.96	2,859.09	2,767.54	91.55	31.230	
4,200.00	3,841.29	3,782.29	3,782.29	29.26	65.04	83.83	-1,439.12	2,986.96	2,851.56	2,757.47	94.09	30.306	
4,300.00	3,924.99	3,865.99	3,865.99	30.35	66.50	84.74	-1,439.12	2,986.96	2,845.06	2,748.38	96.68	29.426	
4,400.00	4,008.68	3,949.68	3,949.68	31.44	67.96	85.67	-1,439.12	2,986.96	2,839.60	2,740.33	99.27	28.604	
4,500.00	4,092.38	4,033.38	4,033.38	32.52	69.42	86.59	-1,439.12	2,986.96	2,835.19	2,733.33	101.86	27.834	
4,600.00	4,176.08	4,117.08	4,117.08	33.62	70.88	87.51	-1,439.12	2,986.96	2,831.83	2,727.39	104.44	27.113	
4,700.00	4,259.77	4,200.77	4,200.77	34.71	72.34	88.44	-1,439.12	2,986.96	2,829.52	2,722.50	107.02	26.439	
4,800.00	4,343.47	4,284.47	4,284.47	35.80	73.80	89.37	-1,439.12	2,986.96	2,828.27	2,718.68	109.59	25.807	
4,868.01	4,400.40	4,341.40	4,341.40	36.54	74.79	90.00	-1,439.12	2,986.96	2,828.03	2,716.69	111.34	25.401	
4,900.00	4,427.17	4,368.17	4,368.17	36.89	75.26	90.30	-1,439.12	2,986.96	2,828.08	2,715.93	112.15	25.216	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,510.87	4,451.87	4,451.87	37.99	76.72	91.22	-1,439.12	2,986.96	2,828.95	2,714.24	114.71	24.662	
5,100.00	4,594.56	4,535.56	4,535.56	39.08	78.18	92.15	-1,439.12	2,986.96	2,830.88	2,713.63	117.25	24.144	
5,200.00	4,678.26	4,619.26	4,619.26	40.18	79.64	93.08	-1,439.12	2,986.96	2,833.86	2,714.08	119.78	23.659	
5,300.00	4,761.96	4,702.96	4,702.96	41.28	81.10	94.00	-1,439.12	2,986.96	2,837.89	2,715.59	122.30	23.204	
5,400.00	4,845.66	4,786.66	4,786.66	42.37	82.57	94.92	-1,439.12	2,986.96	2,842.97	2,718.17	124.80	22.779	
5,500.00	4,929.35	4,870.35	4,870.35	43.47	84.03	95.84	-1,439.12	2,986.96	2,849.10	2,721.80	127.30	22.382	
5,600.00	5,013.05	4,954.05	4,954.05	44.57	85.49	96.76	-1,439.12	2,986.96	2,856.26	2,726.49	129.77	22.010	
5,700.00	5,096.75	5,037.75	5,037.75	45.67	86.95	97.67	-1,439.12	2,986.96	2,864.45	2,732.21	132.23	21.662	
5,800.00	5,180.45	5,121.45	5,121.45	46.77	88.41	98.58	-1,439.12	2,986.96	2,873.65	2,738.98	134.68	21.337	
5,900.00	5,264.14	5,205.14	5,205.14	47.87	89.87	99.49	-1,439.12	2,986.96	2,883.87	2,746.76	137.10	21.034	
6,000.00	5,347.84	5,288.84	5,288.84	48.97	91.33	100.39	-1,439.12	2,986.96	2,895.08	2,755.57	139.51	20.751	
6,100.00	5,431.54	5,372.54	5,372.54	50.07	92.79	101.28	-1,439.12	2,986.96	2,907.28	2,765.38	141.90	20.488	
6,200.00	5,515.23	5,456.23	5,456.23	51.17	94.25	102.17	-1,439.12	2,986.96	2,920.46	2,776.18	144.28	20.242	
6,300.00	5,598.93	5,539.93	5,539.93	52.27	95.71	103.06	-1,439.12	2,986.96	2,934.60	2,787.96	146.63	20.013	
6,400.00	5,682.63	5,623.63	5,623.63	53.38	97.17	103.93	-1,439.12	2,986.96	2,949.68	2,800.71	148.97	19.801	
6,500.00	5,766.33	5,707.33	5,707.33	54.48	98.63	104.81	-1,439.12	2,986.96	2,965.70	2,814.41	151.29	19.603	
6,600.00	5,850.02	5,808.98	5,791.02	55.58	100.41	105.67	-1,439.12	2,986.96	2,982.64	2,828.74	153.90	19.381	
6,700.00	5,933.72	5,874.72	5,874.72	56.68	101.56	106.53	-1,439.12	2,986.96	3,000.47	2,844.61	155.86	19.251	
6,800.00	6,017.42	5,958.42	5,958.42	57.79	103.02	107.38	-1,439.12	2,986.96	3,019.20	2,861.08	158.12	19.094	
6,900.00	6,101.12	6,042.12	6,042.12	58.89	104.48	108.22	-1,439.12	2,986.96	3,038.80	2,878.43	160.37	18.949	
7,000.00	6,184.81	6,125.81	6,125.81	59.99	105.94	109.05	-1,439.12	2,986.96	3,059.25	2,896.66	162.59	18.816	
7,100.00	6,268.51	6,209.51	6,209.51	61.10	107.40	109.87	-1,439.12	2,986.96	3,080.53	2,915.74	164.79	18.693	
7,200.00	6,352.21	6,306.79	6,293.21	62.20	109.10	110.69	-1,439.12	2,986.96	3,102.64	2,935.42	167.22	18.555	
7,300.00	6,435.90	6,376.90	6,376.90	63.31	110.32	111.50	-1,439.12	2,986.96	3,125.54	2,956.40	169.15	18.478	
7,400.00	6,519.60	6,460.60	6,460.60	64.41	111.78	112.30	-1,439.12	2,986.96	3,149.24	2,977.94	171.30	18.385	
7,500.00	6,603.30	6,544.30	6,544.30	65.51	113.24	113.09	-1,439.12	2,986.96	3,173.69	3,000.26	173.43	18.299	
7,600.00	6,687.00	6,628.00	6,628.00	66.62	114.70	113.87	-1,439.12	2,986.96	3,198.90	3,023.35	175.55	18.222	
7,700.00	6,770.69	6,711.69	6,711.69	67.72	116.16	114.64	-1,439.12	2,986.96	3,224.84	3,047.19	177.65	18.153	
7,800.00	6,854.39	6,804.61	6,795.39	68.83	117.79	115.40	-1,439.12	2,986.96	3,251.49	3,071.60	179.89	18.075	
7,900.00	6,938.09	6,879.09	6,879.09	69.93	119.09	116.15	-1,439.12	2,986.96	3,278.84	3,097.04	181.80	18.035	
7,933.18	6,965.86	6,906.86	6,906.86	70.30	119.57	116.40	-1,439.12	2,986.96	3,288.07	3,105.59	182.48	18.018	
7,950.00	6,980.00	6,921.00	6,921.00	70.49	119.82	114.22	-1,439.12	2,986.96	3,292.54	3,109.71	182.83	18.009	
8,000.00	7,022.68	6,963.68	6,963.68	71.01	120.56	107.06	-1,439.12	2,986.96	3,303.10	3,119.23	183.87	17.964	
8,050.00	7,066.06	7,007.06	7,007.06	71.51	121.32	99.00	-1,439.12	2,986.96	3,309.54	3,124.62	184.93	17.897	
8,100.00	7,109.82	7,050.82	7,050.82	71.97	122.08	90.37	-1,439.12	2,986.96	3,311.81	3,125.84	185.98	17.808	
8,150.00	7,153.63	7,105.37	7,094.63	72.38	123.03	81.68	-1,439.12	2,986.96	3,309.90	3,122.69	187.21	17.681	
8,200.00	7,197.14	7,138.14	7,138.14	72.74	123.61	73.41	-1,439.12	2,986.96	3,303.81	3,115.77	188.04	17.570	
8,250.00	7,240.04	7,181.04	7,181.04	73.05	124.36	65.95	-1,439.12	2,986.96	3,293.59	3,104.56	189.03	17.424	
8,300.00	7,281.99	7,222.99	7,222.99	73.31	125.09	59.51	-1,439.12	2,986.96	3,279.31	3,089.33	189.98	17.261	
8,350.00	7,322.67	7,263.67	7,263.67	73.52	125.80	54.11	-1,439.12	2,986.96	3,261.06	3,070.17	190.89	17.083	
8,400.00	7,361.77	7,302.77	7,302.77	73.68	126.48	49.69	-1,439.12	2,986.96	3,238.98	3,047.23	191.75	16.892	
8,450.00	7,399.01	7,340.01	7,340.01	73.78	127.13	46.13	-1,439.12	2,986.96	3,213.21	3,020.66	192.55	16.687	
8,500.00	7,434.08	7,375.08	7,375.08	73.85	127.74	43.33	-1,439.12	2,986.96	3,183.95	2,990.65	193.30	16.472	
8,550.00	7,466.74	7,407.74	7,407.74	73.87	128.31	41.19	-1,439.12	2,986.96	3,151.38	2,957.40	193.98	16.246	
8,600.00	7,496.72	7,437.72	7,437.72	73.85	128.84	39.65	-1,439.12	2,986.96	3,115.74	2,921.15	194.60	16.011	
8,650.00	7,523.80	7,464.80	7,464.80	73.79	129.31	38.66	-1,439.12	2,986.96	3,077.29	2,882.14	195.15	15.769	
8,700.00	7,547.77	7,488.77	7,488.77	73.70	129.73	38.24	-1,439.12	2,986.96	3,036.28	2,840.66	195.62	15.521	
8,750.00	7,568.45	7,509.45	7,509.45	73.58	130.09	38.45	-1,439.12	2,986.96	2,993.02	2,797.00	196.03	15.268	
8,800.00	7,585.69	7,526.69	7,526.69	73.43	130.39	39.46	-1,439.12	2,986.96	2,947.82	2,751.46	196.36	15.012	
8,850.00	7,599.35	7,540.35	7,540.35	73.26	130.63	41.68	-1,439.12	2,986.96	2,900.98	2,704.36	196.62	14.754	
8,900.00	7,609.33	7,550.33	7,550.33	73.07	130.80	46.13	-1,439.12	2,986.96	2,852.86	2,656.05	196.81	14.496	
8,950.00	7,615.55	7,556.55	7,556.55	72.87	130.91	55.91	-1,439.12	2,986.96	2,803.80	2,606.87	196.93	14.238	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	7,558.97	7,558.97	72.65	130.95	83.38	-1,439.12	2,986.96	2,754.16	2,557.18	196.97	13.982	
9,006.60	7,618.00	7,559.00	7,559.00	72.62	130.95	90.00	-1,439.12	2,986.96	2,747.58	2,550.60	196.98	13.949	
9,100.00	7,618.00	7,559.00	7,559.00	72.22	130.95	90.00	-1,439.12	2,986.96	2,654.50	2,457.52	196.99	13.476	
9,200.00	7,618.00	7,559.00	7,559.00	71.80	130.95	90.00	-1,439.12	2,986.96	2,554.87	2,357.88	197.00	12.969	
9,300.00	7,618.00	7,559.00	7,559.00	71.41	130.95	90.00	-1,439.12	2,986.96	2,455.27	2,258.27	197.01	12.463	
9,400.00	7,618.00	7,559.00	7,559.00	71.04	130.95	90.00	-1,439.12	2,986.96	2,355.71	2,158.69	197.02	11.957	
9,500.00	7,618.00	7,559.00	7,559.00	70.68	130.95	90.00	-1,439.12	2,986.96	2,256.18	2,059.14	197.04	11.450	
9,600.00	7,618.00	7,559.00	7,559.00	70.35	130.95	90.00	-1,439.12	2,986.96	2,156.70	1,959.64	197.06	10.945	
9,700.00	7,618.00	7,559.00	7,559.00	70.04	130.95	90.00	-1,439.12	2,986.96	2,057.26	1,860.19	197.07	10.439	
9,800.00	7,618.00	7,559.00	7,559.00	69.75	130.95	90.00	-1,439.12	2,986.96	1,957.89	1,760.79	197.10	9.934	
9,900.00	7,618.00	7,559.00	7,559.00	69.47	130.95	90.00	-1,439.12	2,986.96	1,858.58	1,661.46	197.12	9.429	
10,000.00	7,618.00	7,559.00	7,559.00	69.22	130.95	90.00	-1,439.12	2,986.96	1,759.35	1,562.21	197.14	8.924	
10,100.00	7,618.00	7,559.00	7,559.00	68.99	130.95	90.00	-1,439.12	2,986.96	1,660.21	1,463.04	197.17	8.420	
10,200.00	7,618.00	7,559.00	7,559.00	68.78	130.95	90.00	-1,439.12	2,986.96	1,561.18	1,363.99	197.20	7.917	
10,300.00	7,618.00	7,559.00	7,559.00	68.59	130.95	90.00	-1,439.12	2,986.96	1,462.29	1,265.06	197.23	7.414	
10,400.00	7,618.00	7,559.00	7,559.00	68.42	130.95	90.00	-1,439.12	2,986.96	1,363.55	1,166.29	197.26	6.912	
10,500.00	7,618.00	7,559.00	7,559.00	68.28	130.95	90.00	-1,439.12	2,986.96	1,265.02	1,067.72	197.30	6.412	
10,600.00	7,618.00	7,559.00	7,559.00	68.16	130.95	90.00	-1,439.12	2,986.96	1,166.73	969.40	197.33	5.913	
10,700.00	7,618.00	7,559.00	7,559.00	68.06	130.95	90.00	-1,439.12	2,986.96	1,068.76	871.39	197.37	5.415	
10,800.00	7,618.00	7,559.00	7,559.00	67.99	130.95	90.00	-1,439.12	2,986.96	971.20	773.81	197.40	4.920	
10,900.00	7,618.00	7,559.00	7,559.00	67.95	130.95	90.00	-1,439.12	2,986.96	874.20	676.79	197.42	4.428	
11,000.00	7,618.00	7,559.00	7,559.00	67.95	130.95	90.00	-1,439.12	2,986.96	777.96	580.54	197.42	3.941	
11,100.00	7,618.00	7,559.00	7,559.00	67.97	130.95	90.00	-1,439.12	2,986.96	682.80	485.42	197.38	3.459	
11,200.00	7,618.00	7,559.00	7,559.00	68.04	130.95	90.00	-1,439.12	2,986.96	589.24	391.99	197.25	2.987	
11,300.00	7,618.00	7,559.00	7,559.00	68.15	130.95	90.00	-1,439.12	2,986.96	498.19	301.24	196.95	2.529	
11,400.00	7,618.00	7,559.00	7,559.00	68.30	130.95	90.00	-1,439.12	2,986.96	411.32	215.04	196.28	2.096	
11,500.00	7,618.00	7,559.00	7,559.00	68.50	130.95	90.00	-1,439.12	2,986.96	331.93	137.16	194.77	1.704	
11,600.00	7,618.00	7,559.00	7,559.00	68.75	130.95	90.00	-1,439.12	2,986.96	266.77	75.23	191.54	1.393	Level 3
11,700.00	7,618.00	7,559.00	7,559.00	69.06	130.95	90.00	-1,439.12	2,986.96	228.38	42.10	186.28	1.226	Level 2
11,745.04	7,618.00	7,559.00	7,559.00	69.22	130.95	90.00	-1,439.12	2,986.96	223.89	39.71	184.18	1.216	Level 2, CC, ES, SF
11,800.00	7,618.00	7,559.00	7,559.00	69.44	130.95	90.00	-1,439.12	2,986.96	230.54	47.52	183.02	1.260	Level 3
11,900.00	7,618.00	7,559.00	7,559.00	69.88	130.95	90.00	-1,439.12	2,986.96	272.29	87.55	184.73	1.474	Level 3
12,000.00	7,618.00	7,559.00	7,559.00	70.39	130.95	90.00	-1,439.12	2,986.96	339.31	151.60	187.71	1.808	
12,100.00	7,618.00	7,559.00	7,559.00	70.97	130.95	90.00	-1,439.12	2,986.96	419.67	229.70	189.97	2.209	
12,200.00	7,618.00	7,559.00	7,559.00	71.63	130.95	90.00	-1,439.12	2,986.96	507.06	315.58	191.48	2.648	
12,300.00	7,618.00	7,559.00	7,559.00	72.35	130.95	90.00	-1,439.12	2,986.96	598.42	405.91	192.51	3.109	
12,400.00	7,618.00	7,559.00	7,559.00	73.15	130.95	90.00	-1,439.12	2,986.96	692.17	498.94	193.23	3.582	
12,500.00	7,618.00	7,559.00	7,559.00	74.01	130.95	90.00	-1,439.12	2,986.96	787.46	593.70	193.76	4.064	
12,600.00	7,618.00	7,559.00	7,559.00	74.93	130.95	90.00	-1,439.12	2,986.96	883.79	689.63	194.15	4.552	
12,700.00	7,618.00	7,559.00	7,559.00	75.91	130.95	90.00	-1,439.12	2,986.96	980.85	786.39	194.46	5.044	
12,800.00	7,618.00	7,559.00	7,559.00	76.95	130.95	90.00	-1,439.12	2,986.96	1,078.45	883.74	194.71	5.539	
12,900.00	7,618.00	7,559.00	7,559.00	78.04	130.95	90.00	-1,439.12	2,986.96	1,176.46	981.54	194.91	6.036	
13,000.00	7,618.00	7,559.00	7,559.00	79.16	130.95	90.00	-1,439.12	2,986.96	1,274.77	1,079.69	195.08	6.535	
13,100.00	7,618.00	7,559.00	7,559.00	80.33	130.95	90.00	-1,439.12	2,986.96	1,373.33	1,178.10	195.23	7.035	
13,200.00	7,618.00	7,559.00	7,559.00	81.54	130.95	90.00	-1,439.12	2,986.96	1,472.08	1,276.73	195.35	7.536	
13,300.00	7,618.00	7,559.00	7,559.00	82.78	130.95	90.00	-1,439.12	2,986.96	1,570.99	1,375.53	195.46	8.038	
13,400.00	7,618.00	7,559.00	7,559.00	84.05	130.95	90.00	-1,439.12	2,986.96	1,670.03	1,474.48	195.55	8.540	
13,500.00	7,618.00	7,559.00	7,559.00	85.35	130.95	90.00	-1,439.12	2,986.96	1,769.18	1,573.54	195.64	9.043	
13,600.00	7,618.00	7,559.00	7,559.00	86.67	130.95	90.00	-1,439.12	2,986.96	1,868.42	1,672.70	195.71	9.547	
13,700.00	7,618.00	7,559.00	7,559.00	88.02	130.95	90.00	-1,439.12	2,986.96	1,967.73	1,771.95	195.78	10.051	
13,800.00	7,618.00	7,559.00	7,559.00	89.38	130.95	90.00	-1,439.12	2,986.96	2,067.12	1,871.27	195.85	10.555	
13,900.00	7,618.00	7,559.00	7,559.00	90.77	130.95	90.00	-1,439.12	2,986.96	2,166.55	1,970.65	195.91	11.059	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,618.00	7,559.00	7,559.00	92.17	130.95	90.00	-1,439.12	2,986.96	2,266.04	2,070.08	195.96	11.564	
14,100.00	7,618.00	7,559.00	7,559.00	93.59	130.95	90.00	-1,439.12	2,986.96	2,365.57	2,169.56	196.02	12.068	
14,200.00	7,618.00	7,559.00	7,559.00	95.02	130.95	90.00	-1,439.12	2,986.96	2,465.14	2,269.08	196.07	12.573	
14,300.00	7,618.00	7,559.00	7,559.00	96.47	130.95	90.00	-1,439.12	2,986.96	2,564.75	2,368.63	196.11	13.078	
14,400.00	7,618.00	7,559.00	7,559.00	97.93	130.95	90.00	-1,439.12	2,986.96	2,664.38	2,468.22	196.16	13.583	
14,500.00	7,618.00	7,559.00	7,559.00	99.41	130.95	90.00	-1,439.12	2,986.96	2,764.04	2,567.84	196.20	14.088	
14,600.00	7,618.00	7,559.00	7,559.00	100.89	130.95	90.00	-1,439.12	2,986.96	2,863.72	2,667.48	196.24	14.593	
14,700.00	7,618.00	7,559.00	7,559.00	102.38	130.95	90.00	-1,439.12	2,986.96	2,963.43	2,767.14	196.28	15.098	
14,800.00	7,618.00	7,559.00	7,559.00	103.89	130.95	90.00	-1,439.12	2,986.96	3,063.15	2,866.83	196.32	15.603	
14,900.00	7,618.00	7,559.00	7,559.00	105.40	130.95	90.00	-1,439.12	2,986.96	3,162.89	2,966.53	196.36	16.108	
15,000.00	7,618.00	7,559.00	7,559.00	106.92	130.95	90.00	-1,439.12	2,986.96	3,262.65	3,066.25	196.39	16.613	
15,100.00	7,618.00	7,559.00	7,559.00	108.45	130.95	90.00	-1,439.12	2,986.96	3,362.42	3,165.99	196.43	17.118	
15,200.00	7,618.00	7,559.00	7,559.00	109.99	130.95	90.00	-1,439.12	2,986.96	3,462.20	3,265.74	196.46	17.623	
15,300.00	7,618.00	7,559.00	7,559.00	111.54	130.95	90.00	-1,439.12	2,986.96	3,562.00	3,365.50	196.50	18.127	
15,400.00	7,618.00	7,559.00	7,559.00	113.09	130.95	90.00	-1,439.12	2,986.96	3,661.81	3,465.27	196.53	18.632	
15,500.00	7,618.00	7,559.00	7,559.00	114.65	130.95	90.00	-1,439.12	2,986.96	3,761.62	3,565.06	196.57	19.137	
15,600.00	7,618.00	7,559.00	7,559.00	116.21	130.95	90.00	-1,439.12	2,986.96	3,861.45	3,664.85	196.60	19.641	
15,700.00	7,618.00	7,559.00	7,559.00	117.78	130.95	90.00	-1,439.12	2,986.96	3,961.29	3,764.66	196.63	20.146	
15,800.00	7,618.00	7,559.00	7,559.00	119.36	130.95	90.00	-1,439.12	2,986.96	4,061.13	3,864.47	196.67	20.650	
15,900.00	7,618.00	7,559.00	7,559.00	120.94	130.95	90.00	-1,439.12	2,986.96	4,160.98	3,964.29	196.70	21.154	
16,000.00	7,618.00	7,559.00	7,559.00	122.53	130.95	90.00	-1,439.12	2,986.96	4,260.84	4,064.11	196.73	21.658	
16,100.00	7,618.00	7,559.00	7,559.00	124.12	130.95	90.00	-1,439.12	2,986.96	4,360.71	4,163.94	196.76	22.162	
16,200.00	7,618.00	7,559.00	7,559.00	125.72	130.95	90.00	-1,439.12	2,986.96	4,460.58	4,263.78	196.79	22.666	
16,300.00	7,618.00	7,559.00	7,559.00	127.32	130.95	90.00	-1,439.12	2,986.96	4,560.45	4,363.63	196.83	23.170	
16,400.00	7,618.00	7,559.00	7,559.00	128.93	130.95	90.00	-1,439.12	2,986.96	4,660.34	4,463.48	196.86	23.673	
16,500.00	7,618.00	7,559.00	7,559.00	130.54	130.95	90.00	-1,439.12	2,986.96	4,760.22	4,563.33	196.89	24.177	
16,600.00	7,618.00	7,559.00	7,559.00	132.15	130.95	90.00	-1,439.12	2,986.96	4,860.12	4,663.19	196.92	24.680	
16,700.00	7,618.00	7,559.00	7,559.00	133.77	130.95	90.00	-1,439.12	2,986.96	4,960.01	4,763.06	196.96	25.183	
16,800.00	7,618.00	7,559.00	7,559.00	135.39	130.95	90.00	-1,439.12	2,986.96	5,059.91	4,862.92	196.99	25.686	
16,900.00	7,618.00	7,559.00	7,559.00	137.01	130.95	90.00	-1,439.12	2,986.96	5,159.82	4,962.79	197.02	26.189	
17,000.00	7,618.00	7,559.00	7,559.00	138.64	130.95	90.00	-1,439.12	2,986.96	5,259.72	5,062.67	197.05	26.692	
17,100.00	7,618.00	7,559.00	7,559.00	140.27	130.95	90.00	-1,439.12	2,986.96	5,359.63	5,162.55	197.09	27.194	
17,200.00	7,618.00	7,559.00	7,559.00	141.91	130.95	90.00	-1,439.12	2,986.96	5,459.55	5,262.43	197.12	27.697	
17,300.00	7,618.00	7,559.00	7,559.00	143.55	130.95	90.00	-1,439.12	2,986.96	5,559.47	5,362.31	197.15	28.199	
17,400.00	7,618.00	7,559.00	7,559.00	145.19	130.95	90.00	-1,439.12	2,986.96	5,659.39	5,462.20	197.18	28.701	
17,500.00	7,618.00	7,559.00	7,559.00	146.83	130.95	90.00	-1,439.12	2,986.96	5,759.31	5,562.09	197.22	29.203	
17,600.00	7,618.00	7,559.00	7,559.00	148.48	130.95	90.00	-1,439.12	2,986.96	5,859.23	5,661.98	197.25	29.704	
17,700.00	7,618.00	7,559.00	7,559.00	150.13	130.95	90.00	-1,439.12	2,986.96	5,959.16	5,761.88	197.29	30.206	
17,800.00	7,618.00	7,559.00	7,559.00	151.78	130.95	90.00	-1,439.12	2,986.96	6,059.09	5,861.77	197.32	30.707	
17,900.00	7,618.00	7,559.00	7,559.00	153.43	130.95	90.00	-1,439.12	2,986.96	6,159.03	5,961.67	197.35	31.208	
18,000.00	7,618.00	7,559.00	7,559.00	155.09	130.95	90.00	-1,439.12	2,986.96	6,258.96	6,061.57	197.39	31.709	
18,100.00	7,618.00	7,559.00	7,559.00	156.75	130.95	90.00	-1,439.12	2,986.96	6,358.90	6,161.48	197.42	32.210	
18,200.00	7,618.00	7,559.00	7,559.00	158.41	130.95	90.00	-1,439.12	2,986.96	6,458.84	6,261.38	197.46	32.710	
18,300.00	7,618.00	7,559.00	7,559.00	160.07	130.95	90.00	-1,439.12	2,986.96	6,558.78	6,361.29	197.49	33.210	
18,400.00	7,618.00	7,559.00	7,559.00	161.74	130.95	90.00	-1,439.12	2,986.96	6,658.72	6,461.19	197.53	33.710	
18,500.00	7,618.00	7,559.00	7,559.00	163.41	130.95	90.00	-1,439.12	2,986.96	6,758.66	6,561.10	197.56	34.210	
18,600.00	7,618.00	7,559.00	7,559.00	165.08	130.95	90.00	-1,439.12	2,986.96	6,858.61	6,661.01	197.60	34.710	
18,700.00	7,618.00	7,559.00	7,559.00	166.75	130.95	90.00	-1,439.12	2,986.96	6,958.56	6,760.92	197.64	35.209	
18,711.30	7,618.00	7,559.00	7,559.00	166.94	130.95	90.00	-1,439.12	2,986.96	6,969.85	6,772.21	197.64	35.265	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	108.55	-1,435.29	4,277.85	4,512.37				
100.00	100.00	62.00	62.00	0.13	0.47	108.55	-1,435.29	4,277.85	4,512.21	4,511.61	0.61	7,456.438	
200.00	200.00	162.00	162.00	0.49	1.84	108.55	-1,435.29	4,277.85	4,512.21	4,509.88	2.33	1,933.068	
300.00	300.00	262.00	262.00	0.85	3.59	108.55	-1,435.29	4,277.85	4,512.21	4,507.77	4.44	1,016.716	
400.00	400.00	362.00	362.00	1.21	5.33	108.55	-1,435.29	4,277.85	4,512.21	4,505.67	6.54	689.748	
500.00	500.00	462.00	462.00	1.57	7.08	108.55	-1,435.29	4,277.85	4,512.21	4,503.56	8.65	521.907	
600.00	600.00	562.00	562.00	1.93	8.82	108.55	-1,435.29	4,277.85	4,512.21	4,501.46	10.75	419.763	
700.00	700.00	662.00	662.00	2.29	10.57	108.55	-1,435.29	4,277.85	4,512.21	4,499.36	12.85	351.057	
800.00	800.00	762.00	762.00	2.64	12.31	108.55	-1,435.29	4,277.85	4,512.21	4,497.25	14.96	301.678	
900.00	900.00	862.00	862.00	3.00	14.06	108.55	-1,435.29	4,277.85	4,512.21	4,495.15	17.06	264.478	
1,000.00	999.98	961.98	961.98	3.36	15.80	51.39	-1,435.29	4,277.85	4,511.12	4,491.96	19.16	235.443	
1,100.00	1,099.84	1,061.84	1,061.84	3.71	17.55	51.49	-1,435.29	4,277.85	4,507.86	4,486.60	21.26	212.081	
1,200.00	1,199.45	1,161.45	1,161.45	4.07	19.29	51.67	-1,435.29	4,277.85	4,502.43	4,479.08	23.35	192.826	
1,300.00	1,298.70	1,260.70	1,260.70	4.44	21.02	51.91	-1,435.29	4,277.85	4,494.85	4,469.41	25.44	176.660	
1,400.00	1,397.47	1,359.47	1,359.47	4.82	22.74	52.22	-1,435.29	4,277.85	4,485.16	4,457.62	27.54	162.873	
1,500.00	1,495.62	1,457.62	1,457.62	5.22	24.45	52.60	-1,435.29	4,277.85	4,473.38	4,443.75	29.63	150.955	
1,600.00	1,593.06	1,555.06	1,555.06	5.65	26.15	53.04	-1,435.29	4,277.85	4,459.57	4,427.83	31.73	140.529	
1,700.00	1,689.64	1,651.64	1,651.64	6.11	27.84	53.56	-1,435.29	4,277.85	4,443.75	4,409.91	33.84	131.314	
1,800.00	1,785.27	1,747.27	1,747.27	6.61	29.51	54.15	-1,435.29	4,277.85	4,426.01	4,390.05	35.96	123.095	
1,900.00	1,879.82	1,841.82	1,841.82	7.15	31.16	54.81	-1,435.29	4,277.85	4,406.39	4,368.31	38.08	115.705	
2,000.00	1,973.17	1,935.17	1,935.17	7.73	32.79	55.53	-1,435.29	4,277.85	4,384.97	4,344.75	40.22	109.013	
2,100.00	2,065.21	2,027.21	2,027.21	8.37	34.40	56.33	-1,435.29	4,277.85	4,361.84	4,319.45	42.38	102.914	
2,200.00	2,155.84	2,117.84	2,117.84	9.07	35.98	57.19	-1,435.29	4,277.85	4,337.07	4,292.51	44.56	97.326	
2,300.00	2,244.94	2,206.94	2,206.94	9.82	37.53	58.12	-1,435.29	4,277.85	4,310.77	4,264.01	46.76	92.181	
2,400.00	2,332.39	2,305.61	2,294.39	10.64	39.25	59.12	-1,435.29	4,277.85	4,283.04	4,233.85	49.19	87.075	
2,500.00	2,418.11	2,380.11	2,380.11	11.53	40.55	60.18	-1,435.29	4,277.85	4,253.98	4,202.73	51.25	83.008	
2,558.91	2,467.74	2,429.74	2,429.74	12.08	41.42	60.83	-1,435.29	4,277.85	4,236.30	4,183.71	52.59	80.552	
2,600.00	2,502.13	2,464.13	2,464.13	12.47	42.02	61.06	-1,435.29	4,277.85	4,223.86	4,170.33	53.53	78.901	
2,700.00	2,585.83	2,547.83	2,547.83	13.45	43.48	61.63	-1,435.29	4,277.85	4,193.94	4,138.09	55.85	75.092	
2,800.00	2,669.53	2,631.53	2,631.53	14.44	44.94	62.21	-1,435.29	4,277.85	4,164.53	4,106.33	58.20	71.559	
2,900.00	2,753.22	2,715.22	2,715.22	15.46	46.40	62.80	-1,435.29	4,277.85	4,135.64	4,075.07	60.57	68.280	
3,000.00	2,836.92	2,801.08	2,798.92	16.48	47.90	63.39	-1,435.29	4,277.85	4,107.27	4,044.26	63.00	65.192	
3,100.00	2,920.62	2,882.62	2,882.62	17.52	49.33	63.99	-1,435.29	4,277.85	4,079.43	4,014.05	65.38	62.395	
3,200.00	3,004.32	2,966.32	2,966.32	18.56	50.79	64.60	-1,435.29	4,277.85	4,052.15	3,984.33	67.82	59.751	
3,300.00	3,088.01	3,050.01	3,050.01	19.61	52.25	65.21	-1,435.29	4,277.85	4,025.42	3,955.15	70.27	57.284	
3,400.00	3,171.71	3,133.71	3,133.71	20.67	53.71	65.82	-1,435.29	4,277.85	3,999.26	3,926.52	72.74	54.979	
3,500.00	3,255.41	3,217.41	3,217.41	21.73	55.17	66.45	-1,435.29	4,277.85	3,973.69	3,898.46	75.23	52.821	
3,600.00	3,339.10	3,301.10	3,301.10	22.80	56.63	67.07	-1,435.29	4,277.85	3,948.71	3,870.98	77.73	50.800	
3,700.00	3,422.80	3,384.80	3,384.80	23.87	58.09	67.71	-1,435.29	4,277.85	3,924.33	3,844.08	80.25	48.904	
3,800.00	3,506.50	3,468.50	3,468.50	24.94	59.55	68.35	-1,435.29	4,277.85	3,900.57	3,817.79	82.77	47.123	
3,900.00	3,590.20	3,552.20	3,552.20	26.02	61.01	68.99	-1,435.29	4,277.85	3,877.43	3,792.12	85.31	45.449	
4,000.00	3,673.89	3,635.89	3,635.89	27.10	62.47	69.65	-1,435.29	4,277.85	3,854.93	3,767.07	87.87	43.873	
4,100.00	3,757.59	3,719.59	3,719.59	28.18	63.93	70.30	-1,435.29	4,277.85	3,833.08	3,742.65	90.43	42.388	
4,200.00	3,841.29	3,803.29	3,803.29	29.26	65.39	70.97	-1,435.29	4,277.85	3,811.90	3,718.89	93.00	40.987	
4,300.00	3,924.99	3,886.99	3,886.99	30.35	66.85	71.63	-1,435.29	4,277.85	3,791.38	3,695.79	95.59	39.665	
4,400.00	4,008.68	3,970.68	3,970.68	31.44	68.32	72.31	-1,435.29	4,277.85	3,771.55	3,673.37	98.18	38.416	
4,500.00	4,092.38	4,054.38	4,054.38	32.52	69.78	72.99	-1,435.29	4,277.85	3,752.41	3,651.63	100.78	37.235	
4,600.00	4,176.08	4,138.08	4,138.08	33.62	71.24	73.67	-1,435.29	4,277.85	3,733.97	3,630.59	103.38	36.117	
4,700.00	4,259.77	4,221.77	4,221.77	34.71	72.70	74.36	-1,435.29	4,277.85	3,716.25	3,610.25	106.00	35.059	
4,800.00	4,343.47	4,305.47	4,305.47	35.80	74.16	75.05	-1,435.29	4,277.85	3,699.25	3,590.63	108.62	34.057	
4,900.00	4,427.17	4,389.17	4,389.17	36.89	75.62	75.75	-1,435.29	4,277.85	3,682.99	3,571.74	111.25	33.107	
5,000.00	4,510.87	4,472.87	4,472.87	37.99	77.08	76.45	-1,435.29	4,277.85	3,667.47	3,553.59	113.88	32.206	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	4,556.56	4,556.56	39.08	78.54	77.16	-1,435.29	4,277.85	3,652.71	3,536.19	116.51	31.351	
5,200.00	4,678.26	4,640.26	4,640.26	40.18	80.00	77.87	-1,435.29	4,277.85	3,638.71	3,519.56	119.15	30.539	
5,300.00	4,761.96	4,723.96	4,723.96	41.28	81.46	78.58	-1,435.29	4,277.85	3,625.48	3,503.69	121.79	29.768	
5,400.00	4,845.66	4,807.66	4,807.66	42.37	82.92	79.30	-1,435.29	4,277.85	3,613.03	3,488.60	124.43	29.036	
5,500.00	4,929.35	4,908.65	4,891.35	43.47	84.69	80.02	-1,435.29	4,277.85	3,601.37	3,473.99	127.38	28.273	
5,600.00	5,013.05	4,975.05	4,975.05	44.57	85.84	80.74	-1,435.29	4,277.85	3,590.51	3,460.79	129.72	27.679	
5,700.00	5,096.75	5,058.75	5,058.75	45.67	87.31	81.47	-1,435.29	4,277.85	3,580.45	3,448.08	132.36	27.051	
5,800.00	5,180.45	5,142.45	5,142.45	46.77	88.77	82.20	-1,435.29	4,277.85	3,571.20	3,436.19	135.00	26.453	
5,900.00	5,264.14	5,226.14	5,226.14	47.87	90.23	82.93	-1,435.29	4,277.85	3,562.76	3,425.12	137.64	25.884	
6,000.00	5,347.84	5,309.84	5,309.84	48.97	91.69	83.66	-1,435.29	4,277.85	3,555.15	3,414.88	140.28	25.344	
6,100.00	5,431.54	5,406.46	5,393.54	50.07	93.37	84.40	-1,435.29	4,277.85	3,548.37	3,405.24	143.13	24.791	
6,200.00	5,515.23	5,477.23	5,477.23	51.17	94.61	85.14	-1,435.29	4,277.85	3,542.42	3,396.89	145.54	24.341	
6,300.00	5,598.93	5,560.93	5,560.93	52.27	96.07	85.88	-1,435.29	4,277.85	3,537.31	3,389.15	148.16	23.875	
6,400.00	5,682.63	5,644.63	5,644.63	53.38	97.53	86.62	-1,435.29	4,277.85	3,533.04	3,382.26	150.77	23.433	
6,500.00	5,766.33	5,728.33	5,728.33	54.48	98.99	87.36	-1,435.29	4,277.85	3,529.61	3,376.23	153.38	23.012	
6,600.00	5,850.02	5,812.02	5,812.02	55.58	100.45	88.11	-1,435.29	4,277.85	3,527.02	3,371.04	155.98	22.612	
6,700.00	5,933.72	5,904.28	5,895.72	56.68	102.06	88.85	-1,435.29	4,277.85	3,525.29	3,366.57	158.72	22.211	
6,800.00	6,017.42	5,979.42	5,979.42	57.79	103.37	89.59	-1,435.29	4,277.85	3,524.40	3,363.25	161.15	21.870	
6,854.39	6,062.94	6,024.94	6,024.94	58.39	104.17	90.00	-1,435.29	4,277.85	3,524.27	3,361.72	162.55	21.681	
6,900.00	6,101.12	6,063.12	6,063.12	58.89	104.84	90.34	-1,435.29	4,277.85	3,524.36	3,360.64	163.73	21.526	
7,000.00	6,184.81	6,146.81	6,146.81	59.99	106.30	91.08	-1,435.29	4,277.85	3,525.17	3,358.89	166.29	21.199	
7,100.00	6,268.51	6,230.51	6,230.51	61.10	107.76	91.83	-1,435.29	4,277.85	3,526.84	3,358.00	168.84	20.889	
7,200.00	6,352.21	6,314.21	6,314.21	62.20	109.22	92.57	-1,435.29	4,277.85	3,529.34	3,357.97	171.37	20.595	
7,300.00	6,435.90	6,402.10	6,397.90	63.31	110.75	93.31	-1,435.29	4,277.85	3,532.70	3,358.73	173.97	20.306	
7,400.00	6,519.60	6,481.60	6,481.60	64.41	112.14	94.06	-1,435.29	4,277.85	3,536.90	3,360.49	176.41	20.049	
7,500.00	6,603.30	6,565.30	6,565.30	65.51	113.60	94.80	-1,435.29	4,277.85	3,541.94	3,363.03	178.91	19.798	
7,600.00	6,687.00	6,649.00	6,649.00	66.62	115.06	95.53	-1,435.29	4,277.85	3,547.82	3,366.43	181.39	19.559	
7,700.00	6,770.69	6,732.69	6,732.69	67.72	116.52	96.27	-1,435.29	4,277.85	3,554.52	3,370.67	183.86	19.333	
7,800.00	6,854.39	6,816.39	6,816.39	68.83	117.98	97.01	-1,435.29	4,277.85	3,562.06	3,375.75	186.31	19.119	
7,900.00	6,938.09	6,900.09	6,900.09	69.93	119.44	97.74	-1,435.29	4,277.85	3,570.42	3,381.68	188.75	18.916	
7,933.18	6,965.86	6,927.86	6,927.86	70.30	119.93	97.98	-1,435.29	4,277.85	3,573.38	3,383.83	189.55	18.852	
7,950.00	6,980.00	6,942.00	6,942.00	70.49	120.17	95.83	-1,435.29	4,277.85	3,574.68	3,384.72	189.96	18.818	
8,000.00	7,022.68	6,984.68	6,984.68	71.01	120.92	88.66	-1,435.29	4,277.85	3,575.95	3,384.78	191.17	18.705	
8,050.00	7,066.06	7,028.06	7,028.06	71.51	121.68	80.47	-1,435.29	4,277.85	3,573.30	3,380.92	192.37	18.575	
8,100.00	7,109.82	7,071.82	7,071.82	71.97	122.44	71.59	-1,435.29	4,277.85	3,566.72	3,373.17	193.56	18.427	
8,150.00	7,153.63	7,115.63	7,115.63	72.38	123.20	62.49	-1,435.29	4,277.85	3,556.24	3,361.53	194.71	18.265	
8,200.00	7,197.14	7,159.14	7,159.14	72.74	123.96	53.66	-1,435.29	4,277.85	3,541.90	3,346.08	195.82	18.088	
8,250.00	7,240.04	7,202.04	7,202.04	73.05	124.71	45.46	-1,435.29	4,277.85	3,523.79	3,326.91	196.88	17.898	
8,300.00	7,281.99	7,243.99	7,243.99	73.31	125.45	38.06	-1,435.29	4,277.85	3,502.01	3,304.12	197.89	17.697	
8,350.00	7,322.67	7,284.67	7,284.67	73.52	126.16	31.46	-1,435.29	4,277.85	3,476.70	3,277.86	198.84	17.485	
8,400.00	7,361.77	7,323.77	7,323.77	73.68	126.84	25.52	-1,435.29	4,277.85	3,448.03	3,248.32	199.72	17.265	
8,450.00	7,399.01	7,361.01	7,361.01	73.78	127.49	20.05	-1,435.29	4,277.85	3,416.20	3,215.67	200.52	17.036	
8,500.00	7,434.08	7,403.92	7,396.08	73.85	128.24	14.85	-1,435.29	4,277.85	3,381.42	3,180.03	201.39	16.790	
8,550.00	7,466.74	7,428.74	7,428.74	73.87	128.67	9.65	-1,435.29	4,277.85	3,343.95	3,142.04	201.91	16.561	
8,600.00	7,496.72	7,458.72	7,458.72	73.85	129.19	4.15	-1,435.29	4,277.85	3,304.06	3,101.58	202.48	16.318	
8,650.00	7,523.80	7,485.80	7,485.80	73.79	129.67	-2.00	-1,435.29	4,277.85	3,262.05	3,059.08	202.97	16.072	
8,700.00	7,547.77	7,509.77	7,509.77	73.70	130.08	-9.29	-1,435.29	4,277.85	3,218.24	3,014.87	203.37	15.824	
8,750.00	7,568.45	7,530.45	7,530.45	73.58	130.45	-18.32	-1,435.29	4,277.85	3,172.96	2,969.27	203.68	15.578	
8,800.00	7,585.69	7,547.69	7,547.69	73.43	130.75	-29.74	-1,435.29	4,277.85	3,126.57	2,922.66	203.91	15.333	
8,850.00	7,599.35	7,561.35	7,561.35	73.26	130.98	-43.82	-1,435.29	4,277.85	3,079.44	2,875.40	204.04	15.092	
8,900.00	7,609.33	7,571.33	7,571.33	73.07	131.16	-59.73	-1,435.29	4,277.85	3,031.95	2,827.87	204.09	14.856	
8,950.00	7,615.55	7,577.55	7,577.55	72.87	131.27	-75.30	-1,435.29	4,277.85	2,984.50	2,780.46	204.04	14.627	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	7,579.97	7,579.97	72.65	131.31	-88.49	-1,435.29	4,277.85	2,937.47	2,733.56	203.91	14.406	
9,006.60	7,618.00	7,580.00	7,580.00	72.62	131.31	-90.00	-1,435.29	4,277.85	2,931.31	2,727.43	203.88	14.377	
9,100.00	7,618.00	7,580.00	7,580.00	72.22	131.31	-90.00	-1,435.29	4,277.85	2,844.53	2,641.01	203.52	13.977	
9,200.00	7,618.00	7,580.00	7,580.00	71.80	131.31	-90.00	-1,435.29	4,277.85	2,752.08	2,548.98	203.10	13.550	
9,300.00	7,618.00	7,580.00	7,580.00	71.41	131.31	-90.00	-1,435.29	4,277.85	2,660.19	2,457.53	202.65	13.127	
9,400.00	7,618.00	7,580.00	7,580.00	71.04	131.31	-90.00	-1,435.29	4,277.85	2,568.90	2,366.73	202.16	12.707	
9,500.00	7,618.00	7,580.00	7,580.00	70.68	131.31	-90.00	-1,435.29	4,277.85	2,478.28	2,276.64	201.63	12.291	
9,600.00	7,618.00	7,580.00	7,580.00	70.35	131.31	-90.00	-1,435.29	4,277.85	2,388.41	2,187.35	201.06	11.879	
9,700.00	7,618.00	7,580.00	7,580.00	70.04	131.31	-90.00	-1,435.29	4,277.85	2,299.38	2,098.94	200.43	11.472	
9,800.00	7,618.00	7,580.00	7,580.00	69.75	131.31	-90.00	-1,435.29	4,277.85	2,211.28	2,011.53	199.75	11.070	
9,900.00	7,618.00	7,580.00	7,580.00	69.47	131.31	-90.00	-1,435.29	4,277.85	2,124.24	1,925.24	199.00	10.675	
10,000.00	7,618.00	7,580.00	7,580.00	69.22	131.31	-90.00	-1,435.29	4,277.85	2,038.39	1,840.21	198.18	10.286	
10,100.00	7,618.00	7,580.00	7,580.00	68.99	131.31	-90.00	-1,435.29	4,277.85	1,953.88	1,756.60	197.29	9.904	
10,200.00	7,618.00	7,580.00	7,580.00	68.78	131.31	-90.00	-1,435.29	4,277.85	1,870.91	1,674.60	196.30	9.531	
10,300.00	7,618.00	7,580.00	7,580.00	68.59	131.31	-90.00	-1,435.29	4,277.85	1,789.67	1,594.44	195.23	9.167	
10,400.00	7,618.00	7,580.00	7,580.00	68.42	131.31	-90.00	-1,435.29	4,277.85	1,710.43	1,516.36	194.06	8.814	
10,500.00	7,618.00	7,580.00	7,580.00	68.28	131.31	-90.00	-1,435.29	4,277.85	1,633.46	1,440.67	192.79	8.473	
10,600.00	7,618.00	7,580.00	7,580.00	68.16	131.31	-90.00	-1,435.29	4,277.85	1,559.11	1,367.70	191.41	8.145	
10,700.00	7,618.00	7,580.00	7,580.00	68.06	131.31	-90.00	-1,435.29	4,277.85	1,487.77	1,297.83	189.94	7.833	
10,800.00	7,618.00	7,580.00	7,580.00	67.99	131.31	-90.00	-1,435.29	4,277.85	1,419.89	1,231.50	188.39	7.537	
10,900.00	7,618.00	7,580.00	7,580.00	67.95	131.31	-90.00	-1,435.29	4,277.85	1,355.99	1,169.21	186.79	7.260	
11,000.00	7,618.00	7,580.00	7,580.00	67.95	131.31	-90.00	-1,435.29	4,277.85	1,296.67	1,111.48	185.19	7.002	
11,100.00	7,618.00	7,580.00	7,580.00	67.97	131.31	-90.00	-1,435.29	4,277.85	1,242.57	1,058.88	183.69	6.764	
11,200.00	7,618.00	7,580.00	7,580.00	68.04	131.31	-90.00	-1,435.29	4,277.85	1,194.41	1,012.02	182.39	6.549	
11,300.00	7,618.00	7,580.00	7,580.00	68.15	131.31	-90.00	-1,435.29	4,277.85	1,152.93	971.50	181.44	6.354	
11,400.00	7,618.00	7,580.00	7,580.00	68.30	131.31	-90.00	-1,435.29	4,277.85	1,118.88	937.89	180.99	6.182	
11,500.00	7,618.00	7,580.00	7,580.00	68.50	131.31	-90.00	-1,435.29	4,277.85	1,092.94	911.76	181.18	6.032	
11,600.00	7,618.00	7,580.00	7,580.00	68.75	131.31	-90.00	-1,435.29	4,277.85	1,075.71	893.63	182.08	5.908	
11,700.00	7,618.00	7,580.00	7,580.00	69.06	131.31	-90.00	-1,435.29	4,277.85	1,067.61	883.91	183.69	5.812	
11,736.84	7,618.00	7,580.00	7,580.00	69.19	131.31	-90.00	-1,435.29	4,277.85	1,066.97	882.52	184.45	5.785	CC, ES
11,800.00	7,618.00	7,580.00	7,580.00	69.44	131.31	-90.00	-1,435.29	4,277.85	1,068.84	882.95	185.89	5.750	
11,900.00	7,618.00	7,580.00	7,580.00	69.88	131.31	-90.00	-1,435.29	4,277.85	1,079.38	890.87	188.51	5.726	SF
12,000.00	7,618.00	7,580.00	7,580.00	70.39	131.31	-90.00	-1,435.29	4,277.85	1,098.95	907.61	191.34	5.743	
12,100.00	7,618.00	7,580.00	7,580.00	70.97	131.31	-90.00	-1,435.29	4,277.85	1,127.08	932.89	194.19	5.804	
12,200.00	7,618.00	7,580.00	7,580.00	71.63	131.31	-90.00	-1,435.29	4,277.85	1,163.16	966.22	196.94	5.906	
12,300.00	7,618.00	7,580.00	7,580.00	72.35	131.31	-90.00	-1,435.29	4,277.85	1,206.48	1,007.00	199.47	6.048	
12,400.00	7,618.00	7,580.00	7,580.00	73.15	131.31	-90.00	-1,435.29	4,277.85	1,256.27	1,054.52	201.75	6.227	
12,500.00	7,618.00	7,580.00	7,580.00	74.01	131.31	-90.00	-1,435.29	4,277.85	1,311.81	1,108.06	203.76	6.438	
12,600.00	7,618.00	7,580.00	7,580.00	74.93	131.31	-90.00	-1,435.29	4,277.85	1,372.40	1,166.91	205.49	6.679	
12,700.00	7,618.00	7,580.00	7,580.00	75.91	131.31	-90.00	-1,435.29	4,277.85	1,437.40	1,230.42	206.98	6.945	
12,800.00	7,618.00	7,580.00	7,580.00	76.95	131.31	-90.00	-1,435.29	4,277.85	1,506.24	1,298.00	208.24	7.233	
12,900.00	7,618.00	7,580.00	7,580.00	78.04	131.31	-90.00	-1,435.29	4,277.85	1,578.41	1,369.10	209.31	7.541	
13,000.00	7,618.00	7,580.00	7,580.00	79.16	131.31	-90.00	-1,435.29	4,277.85	1,653.49	1,443.28	210.21	7.866	
13,100.00	7,618.00	7,580.00	7,580.00	80.33	131.31	-90.00	-1,435.29	4,277.85	1,731.08	1,520.11	210.97	8.205	
13,200.00	7,618.00	7,580.00	7,580.00	81.54	131.31	-90.00	-1,435.29	4,277.85	1,810.88	1,599.27	211.61	8.558	
13,300.00	7,618.00	7,580.00	7,580.00	82.78	131.31	-90.00	-1,435.29	4,277.85	1,892.59	1,680.45	212.15	8.921	
13,400.00	7,618.00	7,580.00	7,580.00	84.05	131.31	-90.00	-1,435.29	4,277.85	1,975.99	1,763.39	212.60	9.294	
13,500.00	7,618.00	7,580.00	7,580.00	85.35	131.31	-90.00	-1,435.29	4,277.85	2,060.87	1,847.89	212.98	9.676	
13,600.00	7,618.00	7,580.00	7,580.00	86.67	131.31	-90.00	-1,435.29	4,277.85	2,147.05	1,933.74	213.30	10.066	
13,700.00	7,618.00	7,580.00	7,580.00	88.02	131.31	-90.00	-1,435.29	4,277.85	2,234.38	2,020.80	213.58	10.462	
13,800.00	7,618.00	7,580.00	7,580.00	89.38	131.31	-90.00	-1,435.29	4,277.85	2,322.73	2,108.92	213.81	10.864	
13,900.00	7,618.00	7,580.00	7,580.00	90.77	131.31	-90.00	-1,435.29	4,277.85	2,411.99	2,197.99	214.00	11.271	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,618.00	7,580.00	7,580.00	92.17	131.31	-90.00	-1,435.29	4,277.85	2,502.07	2,287.90	214.17	11.683	
14,100.00	7,618.00	7,580.00	7,580.00	93.59	131.31	-90.00	-1,435.29	4,277.85	2,592.87	2,378.56	214.31	12.099	
14,200.00	7,618.00	7,580.00	7,580.00	95.02	131.31	-90.00	-1,435.29	4,277.85	2,684.33	2,469.90	214.43	12.519	
14,300.00	7,618.00	7,580.00	7,580.00	96.47	131.31	-90.00	-1,435.29	4,277.85	2,776.37	2,561.84	214.53	12.942	
14,400.00	7,618.00	7,580.00	7,580.00	97.93	131.31	-90.00	-1,435.29	4,277.85	2,868.95	2,654.34	214.61	13.368	
14,500.00	7,618.00	7,580.00	7,580.00	99.41	131.31	-90.00	-1,435.29	4,277.85	2,962.01	2,747.32	214.69	13.797	
14,600.00	7,618.00	7,580.00	7,580.00	100.89	131.31	-90.00	-1,435.29	4,277.85	3,055.51	2,840.76	214.75	14.228	
14,700.00	7,618.00	7,580.00	7,580.00	102.38	131.31	-90.00	-1,435.29	4,277.85	3,149.41	2,934.61	214.80	14.662	
14,800.00	7,618.00	7,580.00	7,580.00	103.89	131.31	-90.00	-1,435.29	4,277.85	3,243.67	3,028.83	214.84	15.098	
14,900.00	7,618.00	7,580.00	7,580.00	105.40	131.31	-90.00	-1,435.29	4,277.85	3,338.27	3,123.39	214.88	15.535	
15,000.00	7,618.00	7,580.00	7,580.00	106.92	131.31	-90.00	-1,435.29	4,277.85	3,433.17	3,218.26	214.91	15.975	
15,100.00	7,618.00	7,580.00	7,580.00	108.45	131.31	-90.00	-1,435.29	4,277.85	3,528.36	3,313.42	214.94	16.415	
15,200.00	7,618.00	7,580.00	7,580.00	109.99	131.31	-90.00	-1,435.29	4,277.85	3,623.80	3,408.84	214.96	16.858	
15,300.00	7,618.00	7,580.00	7,580.00	111.54	131.31	-90.00	-1,435.29	4,277.85	3,719.49	3,504.50	214.98	17.301	
15,400.00	7,618.00	7,580.00	7,580.00	113.09	131.31	-90.00	-1,435.29	4,277.85	3,815.39	3,600.39	215.00	17.746	
15,500.00	7,618.00	7,580.00	7,580.00	114.65	131.31	-90.00	-1,435.29	4,277.85	3,911.50	3,696.49	215.01	18.192	
15,600.00	7,618.00	7,580.00	7,580.00	116.21	131.31	-90.00	-1,435.29	4,277.85	4,007.80	3,792.77	215.03	18.639	
15,700.00	7,618.00	7,580.00	7,580.00	117.78	131.31	-90.00	-1,435.29	4,277.85	4,104.28	3,889.24	215.04	19.086	
15,800.00	7,618.00	7,580.00	7,580.00	119.36	131.31	-90.00	-1,435.29	4,277.85	4,200.92	3,985.88	215.04	19.535	
15,900.00	7,618.00	7,580.00	7,580.00	120.94	131.31	-90.00	-1,435.29	4,277.85	4,297.72	4,082.66	215.05	19.985	
16,000.00	7,618.00	7,580.00	7,580.00	122.53	131.31	-90.00	-1,435.29	4,277.85	4,394.66	4,179.60	215.06	20.435	
16,100.00	7,618.00	7,580.00	7,580.00	124.12	131.31	-90.00	-1,435.29	4,277.85	4,491.73	4,276.67	215.06	20.886	
16,200.00	7,618.00	7,580.00	7,580.00	125.72	131.31	-90.00	-1,435.29	4,277.85	4,588.93	4,373.86	215.07	21.337	
16,300.00	7,618.00	7,580.00	7,580.00	127.32	131.31	-90.00	-1,435.29	4,277.85	4,686.25	4,471.17	215.07	21.789	
16,400.00	7,618.00	7,580.00	7,580.00	128.93	131.31	-90.00	-1,435.29	4,277.85	4,783.67	4,568.60	215.08	22.242	
16,500.00	7,618.00	7,580.00	7,580.00	130.54	131.31	-90.00	-1,435.29	4,277.85	4,881.21	4,666.12	215.08	22.695	
16,600.00	7,618.00	7,580.00	7,580.00	132.15	131.31	-90.00	-1,435.29	4,277.85	4,978.84	4,763.75	215.08	23.148	
16,700.00	7,618.00	7,580.00	7,580.00	133.77	131.31	-90.00	-1,435.29	4,277.85	5,076.56	4,861.47	215.09	23.602	
16,800.00	7,618.00	7,580.00	7,580.00	135.39	131.31	-90.00	-1,435.29	4,277.85	5,174.37	4,959.27	215.09	24.056	
16,900.00	7,618.00	7,580.00	7,580.00	137.01	131.31	-90.00	-1,435.29	4,277.85	5,272.26	5,057.16	215.10	24.511	
17,000.00	7,618.00	7,580.00	7,580.00	138.64	131.31	-90.00	-1,435.29	4,277.85	5,370.23	5,155.13	215.10	24.966	
17,100.00	7,618.00	7,580.00	7,580.00	140.27	131.31	-90.00	-1,435.29	4,277.85	5,468.27	5,253.16	215.10	25.421	
17,200.00	7,618.00	7,580.00	7,580.00	141.91	131.31	-90.00	-1,435.29	4,277.85	5,566.38	5,351.27	215.11	25.877	
17,300.00	7,618.00	7,580.00	7,580.00	143.55	131.31	-90.00	-1,435.29	4,277.85	5,664.56	5,449.45	215.11	26.333	
17,400.00	7,618.00	7,580.00	7,580.00	145.19	131.31	-90.00	-1,435.29	4,277.85	5,762.80	5,547.68	215.12	26.789	
17,500.00	7,618.00	7,580.00	7,580.00	146.83	131.31	-90.00	-1,435.29	4,277.85	5,861.10	5,645.98	215.12	27.245	
17,600.00	7,618.00	7,580.00	7,580.00	148.48	131.31	-90.00	-1,435.29	4,277.85	5,959.46	5,744.33	215.13	27.702	
17,700.00	7,618.00	7,580.00	7,580.00	150.13	131.31	-90.00	-1,435.29	4,277.85	6,057.87	5,842.73	215.14	28.158	
17,800.00	7,618.00	7,580.00	7,580.00	151.78	131.31	-90.00	-1,435.29	4,277.85	6,156.33	5,941.19	215.14	28.615	
17,900.00	7,618.00	7,580.00	7,580.00	153.43	131.31	-90.00	-1,435.29	4,277.85	6,254.84	6,039.69	215.15	29.072	
18,000.00	7,618.00	7,580.00	7,580.00	155.09	131.31	-90.00	-1,435.29	4,277.85	6,353.40	6,138.24	215.16	29.529	
18,100.00	7,618.00	7,580.00	7,580.00	156.75	131.31	-90.00	-1,435.29	4,277.85	6,452.00	6,236.84	215.16	29.986	
18,200.00	7,618.00	7,580.00	7,580.00	158.41	131.31	-90.00	-1,435.29	4,277.85	6,550.64	6,335.47	215.17	30.444	
18,300.00	7,618.00	7,580.00	7,580.00	160.07	131.31	-90.00	-1,435.29	4,277.85	6,649.33	6,434.15	215.18	30.901	
18,400.00	7,618.00	7,580.00	7,580.00	161.74	131.31	-90.00	-1,435.29	4,277.85	6,748.05	6,532.86	215.19	31.358	
18,500.00	7,618.00	7,580.00	7,580.00	163.41	131.31	-90.00	-1,435.29	4,277.85	6,846.81	6,631.61	215.20	31.816	
18,600.00	7,618.00	7,580.00	7,580.00	165.08	131.31	-90.00	-1,435.29	4,277.85	6,945.61	6,730.40	215.21	32.274	
18,700.00	7,618.00	7,580.00	7,580.00	166.75	131.31	-90.00	-1,435.29	4,277.85	7,044.44	6,829.22	215.22	32.731	
18,711.30	7,618.00	7,580.00	7,580.00	166.94	131.31	-90.00	-1,435.29	4,277.85	7,055.61	6,840.39	215.22	32.783	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	123.84	-3,056.33	4,558.16	5,488.19				
100.00	100.00	53.00	53.00	0.13	0.41	123.84	-3,056.33	4,558.16	5,487.99	5,487.44	0.54	N/A	
200.00	200.00	153.00	153.00	0.49	1.69	123.84	-3,056.33	4,558.16	5,487.99	5,485.80	2.19	2,510.665	
300.00	300.00	253.00	253.00	0.85	3.44	123.84	-3,056.33	4,558.16	5,487.99	5,483.70	4.29	1,279.349	
400.00	400.00	353.00	353.00	1.21	5.18	123.84	-3,056.33	4,558.16	5,487.99	5,481.59	6.39	858.373	
500.00	500.00	453.00	453.00	1.57	6.93	123.84	-3,056.33	4,558.16	5,487.99	5,479.49	8.50	645.853	
600.00	600.00	553.00	553.00	1.93	8.67	123.84	-3,056.33	4,558.16	5,487.99	5,477.38	10.60	517.682	
700.00	700.00	653.00	653.00	2.29	10.42	123.84	-3,056.33	4,558.16	5,487.99	5,475.28	12.70	431.959	
800.00	800.00	753.00	753.00	2.64	12.16	123.84	-3,056.33	4,558.16	5,487.99	5,473.18	14.81	370.593	
900.00	900.00	853.00	853.00	3.00	13.91	123.84	-3,056.33	4,558.16	5,487.99	5,471.07	16.91	324.493	
1,000.00	999.98	952.98	952.98	3.36	15.66	66.68	-3,056.33	4,558.16	5,487.29	5,468.28	19.01	288.625	
1,100.00	1,099.84	1,052.84	1,052.84	3.71	17.40	66.77	-3,056.33	4,558.16	5,485.22	5,464.12	21.11	259.874	
1,200.00	1,199.45	1,152.45	1,152.45	4.07	19.14	66.92	-3,056.33	4,558.16	5,481.78	5,458.58	23.20	236.255	
1,300.00	1,298.70	1,251.70	1,251.70	4.44	20.87	67.12	-3,056.33	4,558.16	5,477.00	5,451.70	25.30	216.482	
1,400.00	1,397.47	1,350.47	1,350.47	4.82	22.59	67.38	-3,056.33	4,558.16	5,470.88	5,443.48	27.40	199.663	
1,500.00	1,495.62	1,448.62	1,448.62	5.22	24.31	67.70	-3,056.33	4,558.16	5,463.48	5,433.97	29.51	185.154	
1,600.00	1,593.06	1,546.06	1,546.06	5.65	26.01	68.08	-3,056.33	4,558.16	5,454.82	5,423.20	31.62	172.489	
1,700.00	1,689.64	1,642.64	1,642.64	6.11	27.69	68.51	-3,056.33	4,558.16	5,444.96	5,411.20	33.75	161.315	
1,800.00	1,785.27	1,738.27	1,738.27	6.61	29.36	68.99	-3,056.33	4,558.16	5,433.94	5,398.04	35.90	151.367	
1,900.00	1,879.82	1,832.82	1,832.82	7.15	31.01	69.52	-3,056.33	4,558.16	5,421.84	5,383.77	38.06	142.438	
2,000.00	1,973.17	1,926.17	1,926.17	7.73	32.64	70.11	-3,056.33	4,558.16	5,408.71	5,368.45	40.25	134.368	
2,100.00	2,065.21	2,018.21	2,018.21	8.37	34.25	70.74	-3,056.33	4,558.16	5,394.62	5,352.16	42.47	127.030	
2,200.00	2,155.84	2,108.84	2,108.84	9.07	35.83	71.41	-3,056.33	4,558.16	5,379.67	5,334.96	44.71	120.321	
2,300.00	2,244.94	2,202.06	2,197.94	9.82	37.46	72.13	-3,056.33	4,558.16	5,363.93	5,316.87	47.06	113.987	
2,400.00	2,332.39	2,285.39	2,285.39	10.64	38.91	72.89	-3,056.33	4,558.16	5,347.50	5,298.21	49.29	108.483	
2,500.00	2,418.11	2,371.11	2,371.11	11.53	40.41	73.68	-3,056.33	4,558.16	5,330.47	5,278.83	51.64	103.231	
2,558.91	2,467.74	2,420.74	2,420.74	12.08	41.27	74.16	-3,056.33	4,558.16	5,320.20	5,267.17	53.03	100.320	
2,600.00	2,502.13	2,455.13	2,455.13	12.47	41.87	74.36	-3,056.33	4,558.16	5,313.02	5,259.01	54.01	98.366	
2,700.00	2,585.83	2,538.83	2,538.83	13.45	43.33	74.84	-3,056.33	4,558.16	5,295.92	5,239.50	56.42	93.865	
2,800.00	2,669.53	2,622.53	2,622.53	14.44	44.79	75.33	-3,056.33	4,558.16	5,279.32	5,220.47	58.85	89.704	
2,900.00	2,753.22	2,706.22	2,706.22	15.46	46.26	75.82	-3,056.33	4,558.16	5,263.25	5,201.94	61.31	85.853	
3,000.00	2,836.92	2,789.92	2,789.92	16.48	47.72	76.31	-3,056.33	4,558.16	5,247.69	5,183.92	63.78	82.284	
3,100.00	2,920.62	2,873.62	2,873.62	17.52	49.18	76.80	-3,056.33	4,558.16	5,232.66	5,166.40	66.26	78.971	
3,200.00	3,004.32	2,957.32	2,957.32	18.56	50.64	77.30	-3,056.33	4,558.16	5,218.16	5,149.40	68.76	75.890	
3,300.00	3,088.01	3,041.01	3,041.01	19.61	52.10	77.79	-3,056.33	4,558.16	5,204.20	5,132.93	71.27	73.021	
3,400.00	3,171.71	3,124.71	3,124.71	20.67	53.56	78.29	-3,056.33	4,558.16	5,190.77	5,116.98	73.79	70.345	
3,500.00	3,255.41	3,208.41	3,208.41	21.73	55.02	78.79	-3,056.33	4,558.16	5,177.89	5,101.57	76.32	67.845	
3,600.00	3,339.10	3,307.90	3,292.10	22.80	56.76	79.29	-3,056.33	4,558.16	5,165.56	5,086.43	79.13	65.278	
3,700.00	3,422.80	3,375.80	3,375.80	23.87	57.94	79.80	-3,056.33	4,558.16	5,153.78	5,072.38	81.40	63.314	
3,800.00	3,506.50	3,459.50	3,459.50	24.94	59.40	80.30	-3,056.33	4,558.16	5,142.55	5,058.60	83.95	61.257	
3,900.00	3,590.20	3,543.20	3,543.20	26.02	60.86	80.81	-3,056.33	4,558.16	5,131.88	5,045.38	86.51	59.323	
4,000.00	3,673.89	3,626.89	3,626.89	27.10	62.32	81.32	-3,056.33	4,558.16	5,121.78	5,032.71	89.07	57.504	
4,100.00	3,757.59	3,710.59	3,710.59	28.18	63.78	81.83	-3,056.33	4,558.16	5,112.24	5,020.61	91.63	55.791	
4,200.00	3,841.29	3,805.71	3,794.29	29.26	65.44	82.34	-3,056.33	4,558.16	5,103.27	5,008.87	94.40	54.060	
4,300.00	3,924.99	3,877.99	3,877.99	30.35	66.71	82.85	-3,056.33	4,558.16	5,094.87	4,998.10	96.77	52.648	
4,400.00	4,008.68	3,961.68	3,961.68	31.44	68.17	83.36	-3,056.33	4,558.16	5,087.05	4,987.70	99.35	51.205	
4,500.00	4,092.38	4,045.38	4,045.38	32.52	69.63	83.88	-3,056.33	4,558.16	5,079.80	4,977.88	101.92	49.840	
4,600.00	4,176.08	4,129.08	4,129.08	33.62	71.09	84.39	-3,056.33	4,558.16	5,073.14	4,968.64	104.50	48.546	
4,700.00	4,259.77	4,212.77	4,212.77	34.71	72.55	84.91	-3,056.33	4,558.16	5,067.06	4,959.98	107.08	47.321	
4,800.00	4,343.47	4,303.53	4,296.47	35.80	74.13	85.43	-3,056.33	4,558.16	5,061.56	4,951.78	109.78	46.106	
4,900.00	4,427.17	4,380.17	4,380.17	36.89	75.47	85.94	-3,056.33	4,558.16	5,056.64	4,944.41	112.24	45.053	
5,000.00	4,510.87	4,463.87	4,463.87	37.99	76.93	86.46	-3,056.33	4,558.16	5,052.32	4,937.50	114.82	44.003	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	4,547.56	4,547.56	39.08	78.39	86.98	-3,056.33	4,558.16	5,048.59	4,931.19	117.40	43.005	
5,200.00	4,678.26	4,631.26	4,631.26	40.18	79.85	87.50	-3,056.33	4,558.16	5,045.44	4,925.47	119.97	42.055	
5,300.00	4,761.96	4,714.96	4,714.96	41.28	81.31	88.02	-3,056.33	4,558.16	5,042.89	4,920.34	122.55	41.150	
5,400.00	4,845.66	4,801.34	4,798.66	42.37	82.82	88.54	-3,056.33	4,558.16	5,040.93	4,915.76	125.17	40.273	
5,500.00	4,929.35	4,882.35	4,882.35	43.47	84.24	89.06	-3,056.33	4,558.16	5,039.56	4,911.87	127.69	39.467	
5,600.00	5,013.05	4,966.05	4,966.05	44.57	85.70	89.58	-3,056.33	4,558.16	5,038.79	4,908.53	130.26	38.682	
5,679.86	5,079.89	5,032.89	5,032.89	45.45	86.86	90.00	-3,056.33	4,558.16	5,038.60	4,906.29	132.31	38.082	
5,700.00	5,096.75	5,049.75	5,049.75	45.67	87.16	90.10	-3,056.33	4,558.16	5,038.61	4,905.79	132.83	37.934	
5,800.00	5,180.45	5,133.45	5,133.45	46.77	88.62	90.63	-3,056.33	4,558.16	5,039.03	4,903.64	135.39	37.219	
5,900.00	5,264.14	5,217.14	5,217.14	47.87	90.08	91.15	-3,056.33	4,558.16	5,040.04	4,902.10	137.95	36.537	
6,000.00	5,347.84	5,300.84	5,300.84	48.97	91.54	91.67	-3,056.33	4,558.16	5,041.65	4,901.15	140.50	35.884	
6,100.00	5,431.54	5,384.54	5,384.54	50.07	93.00	92.19	-3,056.33	4,558.16	5,043.85	4,900.80	143.05	35.260	
6,200.00	5,515.23	5,468.23	5,468.23	51.17	94.46	92.71	-3,056.33	4,558.16	5,046.64	4,901.04	145.59	34.663	
6,300.00	5,598.93	5,551.93	5,551.93	52.27	95.92	93.23	-3,056.33	4,558.16	5,050.02	4,901.89	148.13	34.092	
6,400.00	5,682.63	5,635.63	5,635.63	53.38	97.38	93.75	-3,056.33	4,558.16	5,053.99	4,903.33	150.66	33.545	
6,500.00	5,766.33	5,719.33	5,719.33	54.48	98.84	94.26	-3,056.33	4,558.16	5,058.55	4,905.36	153.19	33.021	
6,600.00	5,850.02	5,803.02	5,803.02	55.58	100.30	94.78	-3,056.33	4,558.16	5,063.70	4,907.99	155.71	32.519	
6,700.00	5,933.72	5,886.72	5,886.72	56.68	101.77	95.30	-3,056.33	4,558.16	5,069.44	4,911.21	158.23	32.039	
6,800.00	6,017.42	5,970.42	5,970.42	57.79	103.23	95.81	-3,056.33	4,558.16	5,075.75	4,915.02	160.74	31.578	
6,900.00	6,101.12	6,054.12	6,054.12	58.89	104.69	96.33	-3,056.33	4,558.16	5,082.65	4,919.42	163.24	31.137	
7,000.00	6,184.81	6,137.81	6,137.81	59.99	106.15	96.84	-3,056.33	4,558.16	5,090.13	4,924.40	165.73	30.713	
7,100.00	6,268.51	6,221.51	6,221.51	61.10	107.61	97.36	-3,056.33	4,558.16	5,098.19	4,929.97	168.22	30.307	
7,200.00	6,352.21	6,305.21	6,305.21	62.20	109.07	97.87	-3,056.33	4,558.16	5,106.81	4,936.12	170.70	29.917	
7,300.00	6,435.90	6,388.90	6,388.90	63.31	110.53	98.38	-3,056.33	4,558.16	5,116.01	4,942.85	173.17	29.544	
7,400.00	6,519.60	6,472.60	6,472.60	64.41	111.99	98.89	-3,056.33	4,558.16	5,125.78	4,950.15	175.63	29.185	
7,500.00	6,603.30	6,556.30	6,556.30	65.51	113.45	99.39	-3,056.33	4,558.16	5,136.11	4,958.03	178.08	28.841	
7,600.00	6,687.00	6,640.00	6,640.00	66.62	114.91	99.90	-3,056.33	4,558.16	5,147.01	4,966.47	180.53	28.510	
7,700.00	6,770.69	6,723.69	6,723.69	67.72	116.37	100.41	-3,056.33	4,558.16	5,158.46	4,975.49	182.97	28.193	
7,800.00	6,854.39	6,807.39	6,807.39	68.83	117.83	100.91	-3,056.33	4,558.16	5,170.46	4,985.06	185.40	27.889	
7,900.00	6,938.09	6,908.91	6,891.09	69.93	119.61	101.41	-3,056.33	4,558.16	5,183.01	4,994.89	188.13	27.551	
7,933.18	6,965.86	6,918.86	6,918.86	70.30	119.78	101.58	-3,056.33	4,558.16	5,187.30	4,998.68	188.62	27.502	
7,950.00	6,980.00	6,933.00	6,933.00	70.49	120.03	99.40	-3,056.33	4,558.16	5,189.26	5,000.24	189.02	27.453	
8,000.00	7,022.68	6,975.68	6,975.68	71.01	120.77	92.17	-3,056.33	4,558.16	5,192.40	5,002.17	190.23	27.295	
8,050.00	7,066.06	7,019.06	7,019.06	71.51	121.53	83.93	-3,056.33	4,558.16	5,191.48	5,000.04	191.44	27.118	
8,100.00	7,109.82	7,062.82	7,062.82	71.97	122.29	75.03	-3,056.33	4,558.16	5,186.49	4,993.86	192.63	26.925	
8,150.00	7,153.63	7,106.63	7,106.63	72.38	123.06	65.94	-3,056.33	4,558.16	5,177.46	4,983.67	193.79	26.716	
8,200.00	7,197.14	7,150.14	7,150.14	72.74	123.82	57.14	-3,056.33	4,558.16	5,164.44	4,969.52	194.92	26.495	
8,250.00	7,240.04	7,206.96	7,193.04	73.05	124.81	49.02	-3,056.33	4,558.16	5,147.50	4,951.26	196.25	26.230	
8,300.00	7,281.99	7,234.99	7,234.99	73.31	125.30	41.73	-3,056.33	4,558.16	5,126.76	4,929.73	197.03	26.020	
8,350.00	7,322.67	7,275.67	7,275.67	73.52	126.01	35.28	-3,056.33	4,558.16	5,102.36	4,904.36	198.00	25.770	
8,400.00	7,361.77	7,314.77	7,314.77	73.68	126.69	29.55	-3,056.33	4,558.16	5,074.46	4,875.56	198.90	25.512	
8,450.00	7,399.01	7,352.01	7,352.01	73.78	127.34	24.37	-3,056.33	4,558.16	5,043.27	4,843.53	199.74	25.250	
8,500.00	7,434.08	7,387.08	7,387.08	73.85	127.95	19.53	-3,056.33	4,558.16	5,008.99	4,808.50	200.49	24.983	
8,550.00	7,466.74	7,419.74	7,419.74	73.87	128.52	14.81	-3,056.33	4,558.16	4,971.90	4,770.72	201.17	24.714	
8,600.00	7,496.72	7,449.72	7,449.72	73.85	129.04	9.94	-3,056.33	4,558.16	4,932.25	4,730.47	201.77	24.445	
8,650.00	7,523.80	7,476.80	7,476.80	73.79	129.52	4.58	-3,056.33	4,558.16	4,890.33	4,688.05	202.29	24.175	
8,700.00	7,547.77	7,500.77	7,500.77	73.70	129.94	-1.73	-3,056.33	4,558.16	4,846.48	4,643.76	202.72	23.908	
8,750.00	7,568.45	7,521.45	7,521.45	73.58	130.30	-9.66	-3,056.33	4,558.16	4,801.01	4,597.95	203.06	23.644	
8,800.00	7,585.69	7,538.69	7,538.69	73.43	130.60	-20.16	-3,056.33	4,558.16	4,754.28	4,550.97	203.31	23.384	
8,850.00	7,599.35	7,552.35	7,552.35	73.26	130.84	-34.26	-3,056.33	4,558.16	4,706.65	4,503.17	203.48	23.131	
8,900.00	7,609.33	7,562.33	7,562.33	73.07	131.01	-52.10	-3,056.33	4,558.16	4,658.48	4,454.93	203.55	22.886	
8,950.00	7,615.55	7,568.55	7,568.55	72.87	131.12	-71.33	-3,056.33	4,558.16	4,610.17	4,406.63	203.54	22.649	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	7,570.97	7,570.97	72.65	131.16	-88.10	-3,056.33	4,558.16	4,562.10	4,358.64	203.45	22.423	
9,006.60	7,618.00	7,571.00	7,571.00	72.62	131.16	-90.00	-3,056.33	4,558.16	4,555.79	4,352.35	203.43	22.395	
9,100.00	7,618.00	7,571.00	7,571.00	72.22	131.16	-90.00	-3,056.33	4,558.16	4,466.69	4,263.53	203.16	21.987	
9,200.00	7,618.00	7,571.00	7,571.00	71.80	131.16	-90.00	-3,056.33	4,558.16	4,371.49	4,168.64	202.85	21.551	
9,300.00	7,618.00	7,571.00	7,571.00	71.41	131.16	-90.00	-3,056.33	4,558.16	4,276.51	4,073.98	202.53	21.116	
9,400.00	7,618.00	7,571.00	7,571.00	71.04	131.16	-90.00	-3,056.33	4,558.16	4,181.76	3,979.57	202.19	20.682	
9,500.00	7,618.00	7,571.00	7,571.00	70.68	131.16	-90.00	-3,056.33	4,558.16	4,087.27	3,885.43	201.84	20.250	
9,600.00	7,618.00	7,571.00	7,571.00	70.35	131.16	-90.00	-3,056.33	4,558.16	3,993.04	3,791.56	201.48	19.819	
9,700.00	7,618.00	7,571.00	7,571.00	70.04	131.16	-90.00	-3,056.33	4,558.16	3,899.10	3,698.00	201.10	19.389	
9,800.00	7,618.00	7,571.00	7,571.00	69.75	131.16	-90.00	-3,056.33	4,558.16	3,805.47	3,604.77	200.70	18.961	
9,900.00	7,618.00	7,571.00	7,571.00	69.47	131.16	-90.00	-3,056.33	4,558.16	3,712.17	3,511.89	200.29	18.534	
10,000.00	7,618.00	7,571.00	7,571.00	69.22	131.16	-90.00	-3,056.33	4,558.16	3,619.23	3,419.38	199.85	18.109	
10,100.00	7,618.00	7,571.00	7,571.00	68.99	131.16	-90.00	-3,056.33	4,558.16	3,526.68	3,327.28	199.40	17.686	
10,200.00	7,618.00	7,571.00	7,571.00	68.78	131.16	-90.00	-3,056.33	4,558.16	3,434.54	3,235.62	198.93	17.265	
10,300.00	7,618.00	7,571.00	7,571.00	68.59	131.16	-90.00	-3,056.33	4,558.16	3,342.86	3,144.43	198.43	16.847	
10,400.00	7,618.00	7,571.00	7,571.00	68.42	131.16	-90.00	-3,056.33	4,558.16	3,251.67	3,053.76	197.91	16.430	
10,500.00	7,618.00	7,571.00	7,571.00	68.28	131.16	-90.00	-3,056.33	4,558.16	3,161.00	2,963.64	197.37	16.016	
10,600.00	7,618.00	7,571.00	7,571.00	68.16	131.16	-90.00	-3,056.33	4,558.16	3,070.92	2,874.13	196.80	15.604	
10,700.00	7,618.00	7,571.00	7,571.00	68.06	131.16	-90.00	-3,056.33	4,558.16	2,981.47	2,785.27	196.20	15.196	
10,800.00	7,618.00	7,571.00	7,571.00	67.99	131.16	-90.00	-3,056.33	4,558.16	2,892.72	2,697.13	195.58	14.790	
10,900.00	7,618.00	7,571.00	7,571.00	67.95	131.16	-90.00	-3,056.33	4,558.16	2,804.71	2,609.78	194.93	14.388	
11,000.00	7,618.00	7,571.00	7,571.00	67.95	131.16	-90.00	-3,056.33	4,558.16	2,717.54	2,523.28	194.26	13.989	
11,100.00	7,618.00	7,571.00	7,571.00	67.97	131.16	-90.00	-3,056.33	4,558.16	2,631.28	2,437.72	193.56	13.594	
11,200.00	7,618.00	7,571.00	7,571.00	68.04	131.16	-90.00	-3,056.33	4,558.16	2,546.03	2,353.19	192.84	13.203	
11,300.00	7,618.00	7,571.00	7,571.00	68.15	131.16	-90.00	-3,056.33	4,558.16	2,461.89	2,269.79	192.10	12.816	
11,400.00	7,618.00	7,571.00	7,571.00	68.30	131.16	-90.00	-3,056.33	4,558.16	2,378.97	2,187.64	191.34	12.433	
11,500.00	7,618.00	7,571.00	7,571.00	68.50	131.16	-90.00	-3,056.33	4,558.16	2,297.42	2,106.85	190.57	12.056	
11,600.00	7,618.00	7,571.00	7,571.00	68.75	131.16	-90.00	-3,056.33	4,558.16	2,217.37	2,027.57	189.80	11.683	
11,700.00	7,618.00	7,571.00	7,571.00	69.06	131.16	-90.00	-3,056.33	4,558.16	2,139.01	1,949.97	189.04	11.315	
11,800.00	7,618.00	7,571.00	7,571.00	69.44	131.16	-90.00	-3,056.33	4,558.16	2,062.52	1,874.20	188.32	10.952	
11,900.00	7,618.00	7,571.00	7,571.00	69.88	131.16	-90.00	-3,056.33	4,558.16	1,988.12	1,800.48	187.64	10.595	
12,000.00	7,618.00	7,571.00	7,571.00	70.39	131.16	-90.00	-3,056.33	4,558.16	1,916.04	1,729.00	187.04	10.244	
12,100.00	7,618.00	7,571.00	7,571.00	70.97	131.16	-90.00	-3,056.33	4,558.16	1,846.58	1,660.02	186.56	9.898	
12,200.00	7,618.00	7,571.00	7,571.00	71.63	131.16	-90.00	-3,056.33	4,558.16	1,780.02	1,593.79	186.23	9.558	
12,300.00	7,618.00	7,571.00	7,571.00	72.35	131.16	-90.00	-3,056.33	4,558.16	1,716.71	1,530.60	186.11	9.224	
12,400.00	7,618.00	7,571.00	7,571.00	73.15	131.16	-90.00	-3,056.33	4,558.16	1,657.01	1,470.77	186.24	8.897	
12,500.00	7,618.00	7,571.00	7,571.00	74.01	131.16	-90.00	-3,056.33	4,558.16	1,601.35	1,414.65	186.70	8.577	
12,600.00	7,618.00	7,571.00	7,571.00	74.93	131.16	-90.00	-3,056.33	4,558.16	1,550.14	1,362.62	187.52	8.267	
12,700.00	7,618.00	7,571.00	7,571.00	75.91	131.16	-90.00	-3,056.33	4,558.16	1,503.85	1,315.10	188.74	7.968	
12,800.00	7,618.00	7,571.00	7,571.00	76.95	131.16	-90.00	-3,056.33	4,558.16	1,462.93	1,272.53	190.40	7.683	
12,900.00	7,618.00	7,571.00	7,571.00	78.04	131.16	-90.00	-3,056.33	4,558.16	1,427.86	1,235.38	192.49	7.418	
13,000.00	7,618.00	7,571.00	7,571.00	79.16	131.16	-90.00	-3,056.33	4,558.16	1,399.07	1,204.11	194.96	7.176	
13,100.00	7,618.00	7,571.00	7,571.00	80.33	131.16	-90.00	-3,056.33	4,558.16	1,376.96	1,179.18	197.78	6.962	
13,200.00	7,618.00	7,571.00	7,571.00	81.54	131.16	-90.00	-3,056.33	4,558.16	1,361.85	1,161.01	200.84	6.781	
13,300.00	7,618.00	7,571.00	7,571.00	82.78	131.16	-90.00	-3,056.33	4,558.16	1,353.98	1,149.92	204.06	6.635	
13,356.91	7,618.00	7,571.00	7,571.00	83.50	131.16	-90.00	-3,056.33	4,558.16	1,352.78	1,146.87	205.91	6.570	CC
13,400.00	7,618.00	7,571.00	7,571.00	84.05	131.16	-90.00	-3,056.33	4,558.16	1,353.47	1,146.16	207.31	6.529	ES
13,500.00	7,618.00	7,571.00	7,571.00	85.35	131.16	-90.00	-3,056.33	4,558.16	1,360.33	1,149.83	210.50	6.462	
13,600.00	7,618.00	7,571.00	7,571.00	86.67	131.16	-90.00	-3,056.33	4,558.16	1,374.45	1,160.91	213.54	6.436	SF
13,700.00	7,618.00	7,571.00	7,571.00	88.02	131.16	-90.00	-3,056.33	4,558.16	1,395.61	1,179.26	216.36	6.450	
13,800.00	7,618.00	7,571.00	7,571.00	89.38	131.16	-90.00	-3,056.33	4,558.16	1,423.50	1,204.60	218.90	6.503	
13,900.00	7,618.00	7,571.00	7,571.00	90.77	131.16	-90.00	-3,056.33	4,558.16	1,457.73	1,236.58	221.15	6.592	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,618.00	7,571.00	7,571.00	92.17	131.16	-90.00	-3,056.33	4,558.16	1,497.86	1,274.77	223.09	6.714	
14,100.00	7,618.00	7,571.00	7,571.00	93.59	131.16	-90.00	-3,056.33	4,558.16	1,543.44	1,318.70	224.74	6.868	
14,200.00	7,618.00	7,571.00	7,571.00	95.02	131.16	-90.00	-3,056.33	4,558.16	1,594.00	1,367.88	226.11	7.050	
14,300.00	7,618.00	7,571.00	7,571.00	96.47	131.16	-90.00	-3,056.33	4,558.16	1,649.07	1,421.84	227.23	7.257	
14,400.00	7,618.00	7,571.00	7,571.00	97.93	131.16	-90.00	-3,056.33	4,558.16	1,708.23	1,480.11	228.13	7.488	
14,500.00	7,618.00	7,571.00	7,571.00	99.41	131.16	-90.00	-3,056.33	4,558.16	1,771.07	1,542.24	228.83	7.740	
14,600.00	7,618.00	7,571.00	7,571.00	100.89	131.16	-90.00	-3,056.33	4,558.16	1,837.20	1,607.83	229.37	8.010	
14,700.00	7,618.00	7,571.00	7,571.00	102.38	131.16	-90.00	-3,056.33	4,558.16	1,906.28	1,676.52	229.77	8.297	
14,800.00	7,618.00	7,571.00	7,571.00	103.89	131.16	-90.00	-3,056.33	4,558.16	1,978.01	1,747.97	230.05	8.598	
14,900.00	7,618.00	7,571.00	7,571.00	105.40	131.16	-90.00	-3,056.33	4,558.16	2,052.11	1,821.88	230.23	8.913	
15,000.00	7,618.00	7,571.00	7,571.00	106.92	131.16	-90.00	-3,056.33	4,558.16	2,128.33	1,898.00	230.33	9.240	
15,100.00	7,618.00	7,571.00	7,571.00	108.45	131.16	-90.00	-3,056.33	4,558.16	2,206.44	1,976.07	230.37	9.578	
15,200.00	7,618.00	7,571.00	7,571.00	109.99	131.16	-90.00	-3,056.33	4,558.16	2,286.27	2,055.91	230.36	9.925	
15,300.00	7,618.00	7,571.00	7,571.00	111.54	131.16	-90.00	-3,056.33	4,558.16	2,367.62	2,137.32	230.30	10.281	
15,400.00	7,618.00	7,571.00	7,571.00	113.09	131.16	-90.00	-3,056.33	4,558.16	2,450.36	2,220.15	230.21	10.644	
15,500.00	7,618.00	7,571.00	7,571.00	114.65	131.16	-90.00	-3,056.33	4,558.16	2,534.34	2,304.24	230.09	11.014	
15,600.00	7,618.00	7,571.00	7,571.00	116.21	131.16	-90.00	-3,056.33	4,558.16	2,619.44	2,389.49	229.96	11.391	
15,700.00	7,618.00	7,571.00	7,571.00	117.78	131.16	-90.00	-3,056.33	4,558.16	2,705.57	2,475.76	229.81	11.773	
15,800.00	7,618.00	7,571.00	7,571.00	119.36	131.16	-90.00	-3,056.33	4,558.16	2,792.62	2,562.98	229.64	12.161	
15,900.00	7,618.00	7,571.00	7,571.00	120.94	131.16	-90.00	-3,056.33	4,558.16	2,880.51	2,651.04	229.47	12.553	
16,000.00	7,618.00	7,571.00	7,571.00	122.53	131.16	-90.00	-3,056.33	4,558.16	2,969.17	2,739.87	229.29	12.949	
16,100.00	7,618.00	7,571.00	7,571.00	124.12	131.16	-90.00	-3,056.33	4,558.16	3,058.52	2,829.41	229.11	13.349	
16,200.00	7,618.00	7,571.00	7,571.00	125.72	131.16	-90.00	-3,056.33	4,558.16	3,148.52	2,919.59	228.93	13.753	
16,300.00	7,618.00	7,571.00	7,571.00	127.32	131.16	-90.00	-3,056.33	4,558.16	3,239.11	3,010.36	228.75	14.160	
16,400.00	7,618.00	7,571.00	7,571.00	128.93	131.16	-90.00	-3,056.33	4,558.16	3,330.23	3,101.67	228.56	14.570	
16,500.00	7,618.00	7,571.00	7,571.00	130.54	131.16	-90.00	-3,056.33	4,558.16	3,421.85	3,193.47	228.38	14.983	
16,600.00	7,618.00	7,571.00	7,571.00	132.15	131.16	-90.00	-3,056.33	4,558.16	3,513.92	3,285.72	228.20	15.398	
16,700.00	7,618.00	7,571.00	7,571.00	133.77	131.16	-90.00	-3,056.33	4,558.16	3,606.42	3,378.39	228.03	15.816	
16,800.00	7,618.00	7,571.00	7,571.00	135.39	131.16	-90.00	-3,056.33	4,558.16	3,699.31	3,471.45	227.86	16.235	
16,900.00	7,618.00	7,571.00	7,571.00	137.01	131.16	-90.00	-3,056.33	4,558.16	3,792.56	3,564.87	227.69	16.657	
17,000.00	7,618.00	7,571.00	7,571.00	138.64	131.16	-90.00	-3,056.33	4,558.16	3,886.15	3,658.62	227.52	17.080	
17,100.00	7,618.00	7,571.00	7,571.00	140.27	131.16	-90.00	-3,056.33	4,558.16	3,980.04	3,752.68	227.36	17.505	
17,200.00	7,618.00	7,571.00	7,571.00	141.91	131.16	-90.00	-3,056.33	4,558.16	4,074.23	3,847.03	227.21	17.932	
17,300.00	7,618.00	7,571.00	7,571.00	143.55	131.16	-90.00	-3,056.33	4,558.16	4,168.69	3,941.64	227.06	18.360	
17,400.00	7,618.00	7,571.00	7,571.00	145.19	131.16	-90.00	-3,056.33	4,558.16	4,263.40	4,036.50	226.91	18.789	
17,500.00	7,618.00	7,571.00	7,571.00	146.83	131.16	-90.00	-3,056.33	4,558.16	4,358.35	4,131.59	226.76	19.220	
17,600.00	7,618.00	7,571.00	7,571.00	148.48	131.16	-90.00	-3,056.33	4,558.16	4,453.52	4,226.90	226.63	19.651	
17,700.00	7,618.00	7,571.00	7,571.00	150.13	131.16	-90.00	-3,056.33	4,558.16	4,548.90	4,322.41	226.49	20.084	
17,800.00	7,618.00	7,571.00	7,571.00	151.78	131.16	-90.00	-3,056.33	4,558.16	4,644.47	4,418.11	226.36	20.518	
17,900.00	7,618.00	7,571.00	7,571.00	153.43	131.16	-90.00	-3,056.33	4,558.16	4,740.22	4,513.99	226.23	20.953	
18,000.00	7,618.00	7,571.00	7,571.00	155.09	131.16	-90.00	-3,056.33	4,558.16	4,836.15	4,610.04	226.11	21.388	
18,100.00	7,618.00	7,571.00	7,571.00	156.75	131.16	-90.00	-3,056.33	4,558.16	4,932.23	4,706.24	225.99	21.825	
18,200.00	7,618.00	7,571.00	7,571.00	158.41	131.16	-90.00	-3,056.33	4,558.16	5,028.47	4,802.60	225.88	22.262	
18,300.00	7,618.00	7,571.00	7,571.00	160.07	131.16	-90.00	-3,056.33	4,558.16	5,124.86	4,899.09	225.77	22.700	
18,400.00	7,618.00	7,571.00	7,571.00	161.74	131.16	-90.00	-3,056.33	4,558.16	5,221.38	4,995.72	225.66	23.138	
18,500.00	7,618.00	7,571.00	7,571.00	163.41	131.16	-90.00	-3,056.33	4,558.16	5,318.03	5,092.47	225.56	23.577	
18,600.00	7,618.00	7,571.00	7,571.00	165.08	131.16	-90.00	-3,056.33	4,558.16	5,414.80	5,189.34	225.46	24.017	
18,700.00	7,618.00	7,571.00	7,571.00	166.75	131.16	-90.00	-3,056.33	4,558.16	5,511.68	5,286.32	225.36	24.457	
18,711.30	7,618.00	7,571.00	7,571.00	166.94	131.16	-90.00	-3,056.33	4,558.16	5,522.64	5,297.29	225.35	24.507	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	105.01	-1,580.68	5,893.59	6,102.13				
100.00	100.00	45.00	45.00	0.13	0.35	105.01	-1,580.68	5,893.59	6,101.88	6,101.40	0.48	N/A	
200.00	200.00	145.00	145.00	0.49	1.55	105.01	-1,580.68	5,893.59	6,101.88	6,099.83	2.05	2,981.993	
300.00	300.00	245.00	245.00	0.85	3.30	105.01	-1,580.68	5,893.59	6,101.88	6,097.73	4.15	1,470.317	
400.00	400.00	345.00	345.00	1.21	5.04	105.01	-1,580.68	5,893.59	6,101.88	6,095.63	6.25	975.701	
500.00	500.00	445.00	445.00	1.57	6.79	105.01	-1,580.68	5,893.59	6,101.88	6,093.52	8.36	730.096	
600.00	600.00	545.00	545.00	1.93	8.53	105.01	-1,580.68	5,893.59	6,101.88	6,091.42	10.46	583.273	
700.00	700.00	645.00	645.00	2.29	10.28	105.01	-1,580.68	5,893.59	6,101.88	6,089.32	12.57	485.616	
800.00	800.00	745.00	745.00	2.64	12.03	105.01	-1,580.68	5,893.59	6,101.88	6,087.21	14.67	415.970	
900.00	900.00	845.00	845.00	3.00	13.77	105.01	-1,580.68	5,893.59	6,101.88	6,085.11	16.77	363.795	
1,000.00	999.98	944.98	944.98	3.36	15.52	47.85	-1,580.68	5,893.59	6,100.71	6,081.84	18.87	323.265	
1,100.00	1,099.84	1,044.84	1,044.84	3.71	17.26	47.94	-1,580.68	5,893.59	6,097.20	6,076.23	20.97	290.795	
1,200.00	1,199.45	1,144.45	1,144.45	4.07	19.00	48.09	-1,580.68	5,893.59	6,091.35	6,068.29	23.06	264.136	
1,300.00	1,298.70	1,243.70	1,243.70	4.44	20.73	48.30	-1,580.68	5,893.59	6,083.20	6,058.04	25.15	241.834	
1,400.00	1,397.47	1,342.47	1,342.47	4.82	22.45	48.56	-1,580.68	5,893.59	6,072.74	6,045.50	27.25	222.877	
1,500.00	1,495.62	1,440.62	1,440.62	5.22	24.17	48.89	-1,580.68	5,893.59	6,060.03	6,030.69	29.34	206.542	
1,600.00	1,593.06	1,538.06	1,538.06	5.65	25.87	49.28	-1,580.68	5,893.59	6,045.07	6,013.64	31.44	192.298	
1,700.00	1,689.64	1,634.64	1,634.64	6.11	27.55	49.72	-1,580.68	5,893.59	6,027.93	5,994.39	33.54	179.746	
1,800.00	1,785.27	1,730.27	1,730.27	6.61	29.22	50.23	-1,580.68	5,893.59	6,008.64	5,973.00	35.64	168.584	
1,900.00	1,879.82	1,824.82	1,824.82	7.15	30.87	50.80	-1,580.68	5,893.59	5,987.25	5,949.49	37.76	158.577	
2,000.00	1,973.17	1,918.17	1,918.17	7.73	32.50	51.44	-1,580.68	5,893.59	5,963.82	5,923.94	39.88	149.540	
2,100.00	2,065.21	2,010.21	2,010.21	8.37	34.11	52.13	-1,580.68	5,893.59	5,938.42	5,896.40	42.02	141.328	
2,200.00	2,155.84	2,100.84	2,100.84	9.07	35.69	52.89	-1,580.68	5,893.59	5,911.12	5,866.95	44.17	133.821	
2,300.00	2,244.94	2,189.94	2,189.94	9.82	37.24	53.70	-1,580.68	5,893.59	5,881.98	5,835.64	46.34	126.924	
2,400.00	2,332.39	2,277.39	2,277.39	10.64	38.77	54.58	-1,580.68	5,893.59	5,851.10	5,802.57	48.53	120.561	
2,500.00	2,418.11	2,363.11	2,363.11	11.53	40.27	55.52	-1,580.68	5,893.59	5,818.55	5,767.81	50.74	114.665	
2,558.91	2,467.74	2,412.74	2,412.74	12.08	41.13	56.10	-1,580.68	5,893.59	5,798.64	5,746.58	52.06	111.389	
2,600.00	2,502.13	2,447.13	2,447.13	12.47	41.73	56.27	-1,580.68	5,893.59	5,784.59	5,731.61	52.98	109.188	
2,700.00	2,585.83	2,530.83	2,530.83	13.45	43.19	56.67	-1,580.68	5,893.59	5,750.62	5,695.38	55.24	104.104	
2,800.00	2,669.53	2,614.53	2,614.53	14.44	44.65	57.08	-1,580.68	5,893.59	5,716.97	5,659.45	57.53	99.381	
2,900.00	2,753.22	2,701.78	2,698.22	15.46	46.18	57.49	-1,580.68	5,893.59	5,683.66	5,623.76	59.90	94.890	
3,000.00	2,836.92	2,781.92	2,781.92	16.48	47.58	57.90	-1,580.68	5,893.59	5,650.67	5,588.50	62.17	90.897	
3,100.00	2,920.62	2,865.62	2,865.62	17.52	49.04	58.32	-1,580.68	5,893.59	5,618.02	5,553.51	64.52	87.081	
3,200.00	3,004.32	2,949.32	2,949.32	18.56	50.50	58.75	-1,580.68	5,893.59	5,585.72	5,518.84	66.88	83.516	
3,300.00	3,088.01	3,033.01	3,033.01	19.61	51.96	59.17	-1,580.68	5,893.59	5,553.78	5,484.51	69.26	80.182	
3,400.00	3,171.71	3,116.71	3,116.71	20.67	53.42	59.60	-1,580.68	5,893.59	5,522.18	5,450.52	71.66	77.058	
3,500.00	3,255.41	3,200.41	3,200.41	21.73	54.88	60.03	-1,580.68	5,893.59	5,490.96	5,416.88	74.07	74.128	
3,600.00	3,339.10	3,284.10	3,284.10	22.80	56.34	60.47	-1,580.68	5,893.59	5,460.10	5,383.60	76.50	71.374	
3,700.00	3,422.80	3,367.80	3,367.80	23.87	57.80	60.91	-1,580.68	5,893.59	5,429.62	5,350.68	78.94	68.783	
3,800.00	3,506.50	3,451.50	3,451.50	24.94	59.26	61.36	-1,580.68	5,893.59	5,399.52	5,318.13	81.39	66.343	
3,900.00	3,590.20	3,535.20	3,535.20	26.02	60.72	61.81	-1,580.68	5,893.59	5,369.81	5,285.96	83.85	64.040	
4,000.00	3,673.89	3,618.89	3,618.89	27.10	62.18	62.26	-1,580.68	5,893.59	5,340.49	5,254.17	86.32	61.865	
4,100.00	3,757.59	3,702.59	3,702.59	28.18	63.65	62.72	-1,580.68	5,893.59	5,311.58	5,222.77	88.81	59.809	
4,200.00	3,841.29	3,786.29	3,786.29	29.26	65.11	63.18	-1,580.68	5,893.59	5,283.08	5,191.77	91.30	57.862	
4,300.00	3,924.99	3,869.99	3,869.99	30.35	66.57	63.64	-1,580.68	5,893.59	5,254.99	5,161.18	93.81	56.017	
4,400.00	4,008.68	3,953.68	3,953.68	31.44	68.03	64.11	-1,580.68	5,893.59	5,227.32	5,131.00	96.33	54.267	
4,500.00	4,092.38	4,037.38	4,037.38	32.52	69.49	64.58	-1,580.68	5,893.59	5,200.08	5,101.23	98.85	52.605	
4,600.00	4,176.08	4,121.08	4,121.08	33.62	70.95	65.06	-1,580.68	5,893.59	5,173.28	5,071.90	101.39	51.026	
4,700.00	4,259.77	4,204.77	4,204.77	34.71	72.41	65.53	-1,580.68	5,893.59	5,146.92	5,042.99	103.93	49.523	
4,800.00	4,343.47	4,288.47	4,288.47	35.80	73.87	66.02	-1,580.68	5,893.59	5,121.01	5,014.53	106.48	48.092	
4,900.00	4,427.17	4,372.17	4,372.17	36.89	75.33	66.50	-1,580.68	5,893.59	5,095.55	4,986.51	109.04	46.729	
5,000.00	4,510.87	4,455.87	4,455.87	37.99	76.79	66.99	-1,580.68	5,893.59	5,070.56	4,958.95	111.61	45.429	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	4,539.56	4,539.56	39.08	78.25	67.49	-1,580.68	5,893.59	5,046.04	4,931.85	114.19	44.189	
5,200.00	4,678.26	4,623.26	4,623.26	40.18	79.71	67.98	-1,580.68	5,893.59	5,021.99	4,905.22	116.78	43.004	
5,300.00	4,761.96	4,706.96	4,706.96	41.28	81.17	68.48	-1,580.68	5,893.59	4,998.43	4,879.06	119.37	41.872	
5,400.00	4,845.66	4,809.34	4,790.66	42.37	82.96	68.99	-1,580.68	5,893.59	4,975.36	4,853.06	122.30	40.682	
5,500.00	4,929.35	4,874.35	4,874.35	43.47	84.10	69.50	-1,580.68	5,893.59	4,952.79	4,828.20	124.58	39.755	
5,600.00	5,013.05	4,958.05	4,958.05	44.57	85.56	70.01	-1,580.68	5,893.59	4,930.71	4,803.52	127.20	38.765	
5,700.00	5,096.75	5,041.75	5,041.75	45.67	87.02	70.52	-1,580.68	5,893.59	4,909.15	4,779.34	129.82	37.816	
5,800.00	5,180.45	5,125.45	5,125.45	46.77	88.48	71.04	-1,580.68	5,893.59	4,888.11	4,755.67	132.45	36.907	
5,900.00	5,264.14	5,209.14	5,209.14	47.87	89.94	71.56	-1,580.68	5,893.59	4,867.59	4,732.52	135.08	36.035	
6,000.00	5,347.84	5,307.16	5,292.84	48.97	91.65	72.08	-1,580.68	5,893.59	4,847.61	4,709.64	137.97	35.136	
6,100.00	5,431.54	5,376.54	5,376.54	50.07	92.86	72.61	-1,580.68	5,893.59	4,828.16	4,687.80	140.36	34.398	
6,200.00	5,515.23	5,460.23	5,460.23	51.17	94.32	73.14	-1,580.68	5,893.59	4,809.25	4,666.24	143.01	33.629	
6,300.00	5,598.93	5,543.93	5,543.93	52.27	95.78	73.67	-1,580.68	5,893.59	4,790.90	4,645.24	145.66	32.891	
6,400.00	5,682.63	5,627.63	5,627.63	53.38	97.24	74.21	-1,580.68	5,893.59	4,773.10	4,624.78	148.32	32.182	
6,500.00	5,766.33	5,711.33	5,711.33	54.48	98.70	74.75	-1,580.68	5,893.59	4,755.87	4,604.89	150.98	31.501	
6,600.00	5,850.02	5,804.98	5,795.02	55.58	100.34	75.29	-1,580.68	5,893.59	4,739.20	4,585.39	153.81	30.811	
6,700.00	5,933.72	5,878.72	5,878.72	56.68	101.63	75.83	-1,580.68	5,893.59	4,723.11	4,566.80	156.31	30.217	
6,800.00	6,017.42	5,962.42	5,962.42	57.79	103.09	76.38	-1,580.68	5,893.59	4,707.60	4,548.63	158.97	29.612	
6,900.00	6,101.12	6,046.12	6,046.12	58.89	104.55	76.93	-1,580.68	5,893.59	4,692.68	4,531.03	161.64	29.031	
7,000.00	6,184.81	6,129.81	6,129.81	59.99	106.01	77.48	-1,580.68	5,893.59	4,678.35	4,514.03	164.32	28.472	
7,100.00	6,268.51	6,213.51	6,213.51	61.10	107.47	78.04	-1,580.68	5,893.59	4,664.62	4,497.63	166.99	27.934	
7,200.00	6,352.21	6,302.79	6,297.21	62.20	109.03	78.59	-1,580.68	5,893.59	4,651.49	4,481.73	169.76	27.401	
7,300.00	6,435.90	6,380.90	6,380.90	63.31	110.39	79.15	-1,580.68	5,893.59	4,638.97	4,466.64	172.33	26.919	
7,400.00	6,519.60	6,464.60	6,464.60	64.41	111.85	79.71	-1,580.68	5,893.59	4,627.06	4,452.06	175.00	26.440	
7,500.00	6,603.30	6,548.30	6,548.30	65.51	113.31	80.28	-1,580.68	5,893.59	4,615.77	4,438.10	177.68	25.979	
7,600.00	6,687.00	6,632.00	6,632.00	66.62	114.77	80.84	-1,580.68	5,893.59	4,605.11	4,424.76	180.35	25.535	
7,700.00	6,770.69	6,715.69	6,715.69	67.72	116.23	81.41	-1,580.68	5,893.59	4,595.07	4,412.06	183.01	25.108	
7,800.00	6,854.39	6,800.61	6,799.39	68.83	117.72	81.97	-1,580.68	5,893.59	4,585.66	4,399.96	185.70	24.694	
7,900.00	6,938.09	6,883.09	6,883.09	69.93	119.16	82.54	-1,580.68	5,893.59	4,576.89	4,388.55	188.34	24.301	
7,933.18	6,965.86	6,910.86	6,910.86	70.30	119.64	82.73	-1,580.68	5,893.59	4,574.12	4,384.90	189.22	24.173	
7,950.00	6,980.00	6,925.00	6,925.00	70.49	119.89	80.42	-1,580.68	5,893.59	4,572.54	4,382.87	189.67	24.108	
8,000.00	7,022.68	6,967.68	6,967.68	71.01	120.63	72.71	-1,580.68	5,893.59	4,565.61	4,374.63	190.98	23.906	
8,050.00	7,066.06	7,011.06	7,011.06	71.51	121.39	63.91	-1,580.68	5,893.59	4,555.32	4,363.06	192.25	23.694	
8,100.00	7,109.82	7,054.82	7,054.82	71.97	122.15	54.31	-1,580.68	5,893.59	4,541.71	4,348.23	193.48	23.474	
8,150.00	7,153.63	7,101.37	7,098.63	72.38	122.96	44.37	-1,580.68	5,893.59	4,524.87	4,330.17	194.70	23.240	
8,200.00	7,197.14	7,142.14	7,142.14	72.74	123.68	34.58	-1,580.68	5,893.59	4,504.87	4,309.12	195.75	23.013	
8,250.00	7,240.04	7,185.04	7,185.04	73.05	124.43	25.26	-1,580.68	5,893.59	4,481.85	4,285.07	196.78	22.776	
8,300.00	7,281.99	7,226.99	7,226.99	73.31	125.16	16.56	-1,580.68	5,893.59	4,455.96	4,258.23	197.73	22.536	
8,350.00	7,322.67	7,267.67	7,267.67	73.52	125.87	8.44	-1,580.68	5,893.59	4,427.37	4,228.79	198.59	22.295	
8,400.00	7,361.77	7,306.77	7,306.77	73.68	126.55	0.76	-1,580.68	5,893.59	4,396.30	4,196.95	199.35	22.053	
8,450.00	7,399.01	7,344.01	7,344.01	73.78	127.20	-6.67	-1,580.68	5,893.59	4,362.98	4,162.95	200.02	21.812	
8,500.00	7,434.08	7,379.08	7,379.08	73.85	127.81	-14.07	-1,580.68	5,893.59	4,327.66	4,127.06	200.59	21.574	
8,550.00	7,466.74	7,411.74	7,411.74	73.87	128.38	-21.60	-1,580.68	5,893.59	4,290.62	4,089.56	201.06	21.340	
8,600.00	7,496.72	7,441.72	7,441.72	73.85	128.91	-29.41	-1,580.68	5,893.59	4,252.16	4,050.74	201.43	21.110	
8,650.00	7,523.80	7,468.80	7,468.80	73.79	129.38	-37.54	-1,580.68	5,893.59	4,212.61	4,010.92	201.69	20.887	
8,700.00	7,547.77	7,507.23	7,492.77	73.70	130.05	-45.95	-1,580.68	5,893.59	4,172.28	3,970.19	202.09	20.646	
8,750.00	7,568.45	7,513.45	7,513.45	73.58	130.16	-54.46	-1,580.68	5,893.59	4,131.53	3,929.65	201.88	20.465	
8,800.00	7,585.69	7,530.69	7,530.69	73.43	130.46	-62.80	-1,580.68	5,893.59	4,090.71	3,888.89	201.82	20.269	
8,850.00	7,599.35	7,544.35	7,544.35	73.26	130.70	-70.67	-1,580.68	5,893.59	4,050.18	3,848.52	201.66	20.084	
8,900.00	7,609.33	7,554.33	7,554.33	73.07	130.87	-77.82	-1,580.68	5,893.59	4,010.29	3,808.90	201.39	19.913	
8,950.00	7,615.55	7,560.55	7,560.55	72.87	130.98	-84.07	-1,580.68	5,893.59	3,971.40	3,770.37	201.03	19.756	
9,000.00	7,617.97	7,562.97	7,562.97	72.65	131.02	-89.37	-1,580.68	5,893.59	3,933.86	3,733.30	200.57	19.614	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,006.60	7,618.00	7,563.00	7,563.00	72.62	131.02	-90.00	-1,580.68	5,893.59	3,929.02	3,728.53	200.50	19.596	
9,100.00	7,618.00	7,563.00	7,563.00	72.22	131.02	-90.00	-1,580.68	5,893.59	3,861.33	3,661.81	199.52	19.353	
9,200.00	7,618.00	7,563.00	7,563.00	71.80	131.02	-90.00	-1,580.68	5,893.59	3,790.05	3,591.61	198.44	19.100	
9,300.00	7,618.00	7,563.00	7,563.00	71.41	131.02	-90.00	-1,580.68	5,893.59	3,720.10	3,522.78	197.32	18.853	
9,400.00	7,618.00	7,563.00	7,563.00	71.04	131.02	-90.00	-1,580.68	5,893.59	3,651.55	3,455.37	196.18	18.614	
9,500.00	7,618.00	7,563.00	7,563.00	70.68	131.02	-90.00	-1,580.68	5,893.59	3,584.47	3,389.47	195.00	18.382	
9,600.00	7,618.00	7,563.00	7,563.00	70.35	131.02	-90.00	-1,580.68	5,893.59	3,518.96	3,325.17	193.79	18.158	
9,700.00	7,618.00	7,563.00	7,563.00	70.04	131.02	-90.00	-1,580.68	5,893.59	3,455.10	3,262.54	192.57	17.942	
9,800.00	7,618.00	7,563.00	7,563.00	69.75	131.02	-90.00	-1,580.68	5,893.59	3,392.99	3,201.67	191.33	17.734	
9,900.00	7,618.00	7,563.00	7,563.00	69.47	131.02	-90.00	-1,580.68	5,893.59	3,332.72	3,142.65	190.07	17.534	
10,000.00	7,618.00	7,563.00	7,563.00	69.22	131.02	-90.00	-1,580.68	5,893.59	3,274.40	3,085.59	188.82	17.342	
10,100.00	7,618.00	7,563.00	7,563.00	68.99	131.02	-90.00	-1,580.68	5,893.59	3,218.13	3,030.56	187.57	17.157	
10,200.00	7,618.00	7,563.00	7,563.00	68.78	131.02	-90.00	-1,580.68	5,893.59	3,164.02	2,977.68	186.34	16.980	
10,300.00	7,618.00	7,563.00	7,563.00	68.59	131.02	-90.00	-1,580.68	5,893.59	3,112.18	2,927.04	185.14	16.810	
10,400.00	7,618.00	7,563.00	7,563.00	68.42	131.02	-90.00	-1,580.68	5,893.59	3,062.73	2,878.73	184.00	16.645	
10,500.00	7,618.00	7,563.00	7,563.00	68.28	131.02	-90.00	-1,580.68	5,893.59	3,015.79	2,832.86	182.93	16.486	
10,600.00	7,618.00	7,563.00	7,563.00	68.16	131.02	-90.00	-1,580.68	5,893.59	2,971.47	2,789.52	181.94	16.332	
10,700.00	7,618.00	7,563.00	7,563.00	68.06	131.02	-90.00	-1,580.68	5,893.59	2,929.89	2,748.82	181.08	16.180	
10,800.00	7,618.00	7,563.00	7,563.00	67.99	131.02	-90.00	-1,580.68	5,893.59	2,891.18	2,710.83	180.35	16.031	
10,900.00	7,618.00	7,563.00	7,563.00	67.95	131.02	-90.00	-1,580.68	5,893.59	2,855.45	2,675.66	179.78	15.883	
11,000.00	7,618.00	7,563.00	7,563.00	67.95	131.02	-90.00	-1,580.68	5,893.59	2,822.80	2,643.40	179.41	15.734	
11,100.00	7,618.00	7,563.00	7,563.00	67.97	131.02	-90.00	-1,580.68	5,893.59	2,793.36	2,614.13	179.24	15.585	
11,200.00	7,618.00	7,563.00	7,563.00	68.04	131.02	-90.00	-1,580.68	5,893.59	2,767.22	2,587.93	179.29	15.434	
11,300.00	7,618.00	7,563.00	7,563.00	68.15	131.02	-90.00	-1,580.68	5,893.59	2,744.48	2,564.89	179.59	15.282	
11,400.00	7,618.00	7,563.00	7,563.00	68.30	131.02	-90.00	-1,580.68	5,893.59	2,725.22	2,545.10	180.12	15.130	
11,500.00	7,618.00	7,563.00	7,563.00	68.50	131.02	-90.00	-1,580.68	5,893.59	2,709.52	2,528.62	180.90	14.978	
11,600.00	7,618.00	7,563.00	7,563.00	68.75	131.02	-90.00	-1,580.68	5,893.59	2,697.43	2,515.52	181.91	14.828	
11,700.00	7,618.00	7,563.00	7,563.00	69.06	131.02	-90.00	-1,580.68	5,893.59	2,689.01	2,505.88	183.14	14.683	
11,800.00	7,618.00	7,563.00	7,563.00	69.44	131.02	-90.00	-1,580.68	5,893.59	2,684.30	2,499.74	184.56	14.544	
11,876.74	7,618.00	7,563.00	7,563.00	69.77	131.02	-90.00	-1,580.68	5,893.59	2,683.20	2,497.43	185.77	14.444	CC
11,900.00	7,618.00	7,563.00	7,563.00	69.88	131.02	-90.00	-1,580.68	5,893.59	2,683.30	2,497.15	186.15	14.414	ES
12,000.00	7,618.00	7,563.00	7,563.00	70.39	131.02	-90.00	-1,580.68	5,893.59	2,686.03	2,498.13	187.89	14.295	
12,100.00	7,618.00	7,563.00	7,563.00	70.97	131.02	-90.00	-1,580.68	5,893.59	2,692.47	2,502.72	189.75	14.189	
12,200.00	7,618.00	7,563.00	7,563.00	71.63	131.02	-90.00	-1,580.68	5,893.59	2,702.60	2,510.90	191.70	14.098	
12,300.00	7,618.00	7,563.00	7,563.00	72.35	131.02	-90.00	-1,580.68	5,893.59	2,716.38	2,522.66	193.72	14.023	
12,400.00	7,618.00	7,563.00	7,563.00	73.15	131.02	-90.00	-1,580.68	5,893.59	2,733.74	2,537.98	195.77	13.964	
12,500.00	7,618.00	7,563.00	7,563.00	74.01	131.02	-90.00	-1,580.68	5,893.59	2,754.63	2,556.80	197.84	13.924	
12,600.00	7,618.00	7,563.00	7,563.00	74.93	131.02	-90.00	-1,580.68	5,893.59	2,778.97	2,579.07	199.90	13.902	
12,700.00	7,618.00	7,563.00	7,563.00	75.91	131.02	-90.00	-1,580.68	5,893.59	2,806.65	2,604.71	201.94	13.898	SF
12,800.00	7,618.00	7,563.00	7,563.00	76.95	131.02	-90.00	-1,580.68	5,893.59	2,837.60	2,633.65	203.95	13.913	
12,900.00	7,618.00	7,563.00	7,563.00	78.04	131.02	-90.00	-1,580.68	5,893.59	2,871.69	2,665.79	205.91	13.947	
13,000.00	7,618.00	7,563.00	7,563.00	79.16	131.02	-90.00	-1,580.68	5,893.59	2,908.83	2,701.02	207.80	13.998	
13,100.00	7,618.00	7,563.00	7,563.00	80.33	131.02	-90.00	-1,580.68	5,893.59	2,948.88	2,739.25	209.64	14.067	
13,200.00	7,618.00	7,563.00	7,563.00	81.54	131.02	-90.00	-1,580.68	5,893.59	2,991.75	2,780.35	211.40	14.152	
13,300.00	7,618.00	7,563.00	7,563.00	82.78	131.02	-90.00	-1,580.68	5,893.59	3,037.31	2,824.22	213.08	14.254	
13,400.00	7,618.00	7,563.00	7,563.00	84.05	131.02	-90.00	-1,580.68	5,893.59	3,085.43	2,870.74	214.69	14.371	
13,500.00	7,618.00	7,563.00	7,563.00	85.35	131.02	-90.00	-1,580.68	5,893.59	3,136.01	2,919.79	216.22	14.504	
13,600.00	7,618.00	7,563.00	7,563.00	86.67	131.02	-90.00	-1,580.68	5,893.59	3,188.92	2,971.25	217.67	14.650	
13,700.00	7,618.00	7,563.00	7,563.00	88.02	131.02	-90.00	-1,580.68	5,893.59	3,244.05	3,025.01	219.04	14.811	
13,800.00	7,618.00	7,563.00	7,563.00	89.38	131.02	-90.00	-1,580.68	5,893.59	3,301.29	3,080.96	220.33	14.983	
13,900.00	7,618.00	7,563.00	7,563.00	90.77	131.02	-90.00	-1,580.68	5,893.59	3,360.53	3,138.98	221.55	15.168	
14,000.00	7,618.00	7,563.00	7,563.00	92.17	131.02	-90.00	-1,580.68	5,893.59	3,421.66	3,198.97	222.69	15.365	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,618.00	7,563.00	7,563.00	93.59	131.02	-90.00	-1,580.68	5,893.59	3,484.60	3,260.83	223.77	15.572	
14,200.00	7,618.00	7,563.00	7,563.00	95.02	131.02	-90.00	-1,580.68	5,893.59	3,549.24	3,324.46	224.78	15.790	
14,300.00	7,618.00	7,563.00	7,563.00	96.47	131.02	-90.00	-1,580.68	5,893.59	3,615.49	3,389.76	225.73	16.017	
14,400.00	7,618.00	7,563.00	7,563.00	97.93	131.02	-90.00	-1,580.68	5,893.59	3,683.26	3,456.64	226.61	16.253	
14,500.00	7,618.00	7,563.00	7,563.00	99.41	131.02	-90.00	-1,580.68	5,893.59	3,752.47	3,525.03	227.45	16.498	
14,600.00	7,618.00	7,563.00	7,563.00	100.89	131.02	-90.00	-1,580.68	5,893.59	3,823.05	3,594.83	228.22	16.751	
14,700.00	7,618.00	7,563.00	7,563.00	102.38	131.02	-90.00	-1,580.68	5,893.59	3,894.91	3,665.96	228.95	17.012	
14,800.00	7,618.00	7,563.00	7,563.00	103.89	131.02	-90.00	-1,580.68	5,893.59	3,968.00	3,738.37	229.63	17.280	
14,900.00	7,618.00	7,563.00	7,563.00	105.40	131.02	-90.00	-1,580.68	5,893.59	4,042.23	3,811.97	230.27	17.555	
15,000.00	7,618.00	7,563.00	7,563.00	106.92	131.02	-90.00	-1,580.68	5,893.59	4,117.56	3,886.70	230.86	17.836	
15,100.00	7,618.00	7,563.00	7,563.00	108.45	131.02	-90.00	-1,580.68	5,893.59	4,193.92	3,962.50	231.42	18.123	
15,200.00	7,618.00	7,563.00	7,563.00	109.99	131.02	-90.00	-1,580.68	5,893.59	4,271.25	4,039.32	231.94	18.416	
15,300.00	7,618.00	7,563.00	7,563.00	111.54	131.02	-90.00	-1,580.68	5,893.59	4,349.51	4,117.09	232.42	18.714	
15,400.00	7,618.00	7,563.00	7,563.00	113.09	131.02	-90.00	-1,580.68	5,893.59	4,428.65	4,195.77	232.88	19.017	
15,500.00	7,618.00	7,563.00	7,563.00	114.65	131.02	-90.00	-1,580.68	5,893.59	4,508.61	4,275.31	233.30	19.325	
15,600.00	7,618.00	7,563.00	7,563.00	116.21	131.02	-90.00	-1,580.68	5,893.59	4,589.36	4,355.66	233.70	19.638	
15,700.00	7,618.00	7,563.00	7,563.00	117.78	131.02	-90.00	-1,580.68	5,893.59	4,670.85	4,436.78	234.07	19.955	
15,800.00	7,618.00	7,563.00	7,563.00	119.36	131.02	-90.00	-1,580.68	5,893.59	4,753.05	4,518.63	234.42	20.276	
15,900.00	7,618.00	7,563.00	7,563.00	120.94	131.02	-90.00	-1,580.68	5,893.59	4,835.93	4,601.18	234.75	20.600	
16,000.00	7,618.00	7,563.00	7,563.00	122.53	131.02	-90.00	-1,580.68	5,893.59	4,919.43	4,684.38	235.06	20.929	
16,100.00	7,618.00	7,563.00	7,563.00	124.12	131.02	-90.00	-1,580.68	5,893.59	5,003.55	4,768.20	235.34	21.261	
16,200.00	7,618.00	7,563.00	7,563.00	125.72	131.02	-90.00	-1,580.68	5,893.59	5,088.24	4,852.62	235.61	21.596	
16,300.00	7,618.00	7,563.00	7,563.00	127.32	131.02	-90.00	-1,580.68	5,893.59	5,173.47	4,937.61	235.86	21.934	
16,400.00	7,618.00	7,563.00	7,563.00	128.93	131.02	-90.00	-1,580.68	5,893.59	5,259.22	5,023.12	236.10	22.275	
16,500.00	7,618.00	7,563.00	7,563.00	130.54	131.02	-90.00	-1,580.68	5,893.59	5,345.47	5,109.15	236.32	22.619	
16,600.00	7,618.00	7,563.00	7,563.00	132.15	131.02	-90.00	-1,580.68	5,893.59	5,432.20	5,195.66	236.53	22.966	
16,700.00	7,618.00	7,563.00	7,563.00	133.77	131.02	-90.00	-1,580.68	5,893.59	5,519.37	5,282.64	236.73	23.315	
16,800.00	7,618.00	7,563.00	7,563.00	135.39	131.02	-90.00	-1,580.68	5,893.59	5,606.96	5,370.05	236.91	23.667	
16,900.00	7,618.00	7,563.00	7,563.00	137.01	131.02	-90.00	-1,580.68	5,893.59	5,694.97	5,457.88	237.09	24.020	
17,000.00	7,618.00	7,563.00	7,563.00	138.64	131.02	-90.00	-1,580.68	5,893.59	5,783.37	5,546.12	237.25	24.376	
17,100.00	7,618.00	7,563.00	7,563.00	140.27	131.02	-90.00	-1,580.68	5,893.59	5,872.14	5,634.73	237.41	24.734	
17,200.00	7,618.00	7,563.00	7,563.00	141.91	131.02	-90.00	-1,580.68	5,893.59	5,961.26	5,723.71	237.55	25.095	
17,300.00	7,618.00	7,563.00	7,563.00	143.55	131.02	-90.00	-1,580.68	5,893.59	6,050.73	5,813.04	237.69	25.456	
17,400.00	7,618.00	7,563.00	7,563.00	145.19	131.02	-90.00	-1,580.68	5,893.59	6,140.52	5,902.70	237.82	25.820	
17,500.00	7,618.00	7,563.00	7,563.00	146.83	131.02	-90.00	-1,580.68	5,893.59	6,230.62	5,992.68	237.94	26.185	
17,600.00	7,618.00	7,563.00	7,563.00	148.48	131.02	-90.00	-1,580.68	5,893.59	6,321.02	6,082.96	238.06	26.553	
17,700.00	7,618.00	7,563.00	7,563.00	150.13	131.02	-90.00	-1,580.68	5,893.59	6,411.70	6,173.54	238.17	26.921	
17,800.00	7,618.00	7,563.00	7,563.00	151.78	131.02	-90.00	-1,580.68	5,893.59	6,502.66	6,264.39	238.27	27.291	
17,900.00	7,618.00	7,563.00	7,563.00	153.43	131.02	-90.00	-1,580.68	5,893.59	6,593.88	6,355.51	238.37	27.663	
18,000.00	7,618.00	7,563.00	7,563.00	155.09	131.02	-90.00	-1,580.68	5,893.59	6,685.35	6,446.89	238.46	28.035	
18,100.00	7,618.00	7,563.00	7,563.00	156.75	131.02	-90.00	-1,580.68	5,893.59	6,777.06	6,538.51	238.55	28.409	
18,200.00	7,618.00	7,563.00	7,563.00	158.41	131.02	-90.00	-1,580.68	5,893.59	6,869.00	6,630.37	238.63	28.785	
18,300.00	7,618.00	7,563.00	7,563.00	160.07	131.02	-90.00	-1,580.68	5,893.59	6,961.17	6,722.45	238.71	29.161	
18,400.00	7,618.00	7,563.00	7,563.00	161.74	131.02	-90.00	-1,580.68	5,893.59	7,053.54	6,814.76	238.79	29.539	
18,500.00	7,618.00	7,563.00	7,563.00	163.41	131.02	-90.00	-1,580.68	5,893.59	7,146.13	6,907.27	238.86	29.918	
18,600.00	7,618.00	7,563.00	7,563.00	165.08	131.02	-90.00	-1,580.68	5,893.59	7,238.91	6,999.98	238.93	30.297	
18,700.00	7,618.00	7,563.00	7,563.00	166.75	131.02	-90.00	-1,580.68	5,893.59	7,331.88	7,092.88	238.99	30.678	
18,711.30	7,618.00	7,563.00	7,563.00	166.94	131.02	-90.00	-1,580.68	5,893.59	7,342.40	7,103.40	239.00	30.721	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	114.92	-2,506.81	5,396.76	5,950.75				
100.00	100.00	51.00	51.00	0.13	0.39	114.92	-2,506.81	5,396.76	5,950.55	5,950.03	0.53	N/A	
200.00	200.00	151.00	151.00	0.49	1.66	114.92	-2,506.81	5,396.76	5,950.55	5,948.40	2.15	2,766.460	
300.00	300.00	251.00	251.00	0.85	3.40	114.92	-2,506.81	5,396.76	5,950.55	5,946.30	4.25	1,398.562	
400.00	400.00	351.00	351.00	1.21	5.15	114.92	-2,506.81	5,396.76	5,950.55	5,944.19	6.36	935.833	
500.00	500.00	451.00	451.00	1.57	6.89	114.92	-2,506.81	5,396.76	5,950.55	5,942.09	8.46	703.178	
600.00	600.00	551.00	551.00	1.93	8.64	114.92	-2,506.81	5,396.76	5,950.55	5,939.99	10.57	563.170	
700.00	700.00	651.00	651.00	2.29	10.38	114.92	-2,506.81	5,396.76	5,950.55	5,937.88	12.67	469.658	
800.00	800.00	751.00	751.00	2.64	12.13	114.92	-2,506.81	5,396.76	5,950.55	5,935.78	14.77	402.778	
900.00	900.00	851.00	851.00	3.00	13.88	114.92	-2,506.81	5,396.76	5,950.55	5,933.67	16.88	352.572	
1,000.00	999.98	950.98	950.98	3.36	15.62	57.75	-2,506.81	5,396.76	5,949.62	5,930.64	18.98	313.519	
1,100.00	1,099.84	1,050.84	1,050.84	3.71	17.36	57.84	-2,506.81	5,396.76	5,946.83	5,925.76	21.07	282.213	
1,200.00	1,199.45	1,150.45	1,150.45	4.07	19.10	57.99	-2,506.81	5,396.76	5,942.19	5,919.02	23.17	256.494	
1,300.00	1,298.70	1,249.70	1,249.70	4.44	20.83	58.20	-2,506.81	5,396.76	5,935.71	5,910.45	25.26	234.964	
1,400.00	1,397.47	1,348.47	1,348.47	4.82	22.56	58.47	-2,506.81	5,396.76	5,927.43	5,900.07	27.36	216.652	
1,500.00	1,495.62	1,446.62	1,446.62	5.22	24.27	58.80	-2,506.81	5,396.76	5,917.36	5,887.90	29.46	200.860	
1,600.00	1,593.06	1,544.06	1,544.06	5.65	25.97	59.19	-2,506.81	5,396.76	5,905.55	5,873.98	31.57	187.078	
1,700.00	1,689.64	1,640.64	1,640.64	6.11	27.66	59.63	-2,506.81	5,396.76	5,892.04	5,858.35	33.68	174.923	
1,800.00	1,785.27	1,736.27	1,736.27	6.61	29.33	60.14	-2,506.81	5,396.76	5,876.88	5,841.06	35.81	164.103	
1,900.00	1,879.82	1,830.82	1,830.82	7.15	30.98	60.70	-2,506.81	5,396.76	5,860.12	5,822.16	37.96	154.395	
2,000.00	1,973.17	1,924.17	1,924.17	7.73	32.61	61.32	-2,506.81	5,396.76	5,841.82	5,801.71	40.12	145.621	
2,100.00	2,065.21	2,016.21	2,016.21	8.37	34.21	61.99	-2,506.81	5,396.76	5,822.06	5,779.76	42.30	137.642	
2,200.00	2,155.84	2,106.84	2,106.84	9.07	35.79	62.71	-2,506.81	5,396.76	5,800.91	5,756.41	44.50	130.345	
2,300.00	2,244.94	2,204.06	2,195.94	9.82	37.49	63.49	-2,506.81	5,396.76	5,778.45	5,731.57	46.88	123.267	
2,400.00	2,332.39	2,283.39	2,283.39	10.64	38.88	64.32	-2,506.81	5,396.76	5,754.76	5,705.76	49.00	117.456	
2,500.00	2,418.11	2,369.11	2,369.11	11.53	40.37	65.19	-2,506.81	5,396.76	5,729.93	5,678.65	51.28	111.728	
2,558.91	2,467.74	2,418.74	2,418.74	12.08	41.24	65.73	-2,506.81	5,396.76	5,714.82	5,662.17	52.65	108.548	
2,600.00	2,502.13	2,453.13	2,453.13	12.47	41.84	65.91	-2,506.81	5,396.76	5,704.19	5,650.58	53.60	106.413	
2,700.00	2,585.83	2,536.83	2,536.83	13.45	43.30	66.34	-2,506.81	5,396.76	5,678.60	5,622.65	55.95	101.487	
2,800.00	2,669.53	2,620.53	2,620.53	14.44	44.76	66.78	-2,506.81	5,396.76	5,653.43	5,595.10	58.33	96.923	
2,900.00	2,753.22	2,704.22	2,704.22	15.46	46.22	67.22	-2,506.81	5,396.76	5,628.68	5,567.96	60.73	92.688	
3,000.00	2,836.92	2,787.92	2,787.92	16.48	47.68	67.67	-2,506.81	5,396.76	5,604.36	5,541.22	63.14	88.754	
3,100.00	2,920.62	2,871.62	2,871.62	17.52	49.14	68.12	-2,506.81	5,396.76	5,580.47	5,514.89	65.58	85.095	
3,200.00	3,004.32	2,955.32	2,955.32	18.56	50.60	68.57	-2,506.81	5,396.76	5,557.01	5,488.98	68.03	81.684	
3,300.00	3,088.01	3,039.01	3,039.01	19.61	52.06	69.02	-2,506.81	5,396.76	5,533.99	5,463.50	70.50	78.502	
3,400.00	3,171.71	3,122.71	3,122.71	20.67	53.52	69.48	-2,506.81	5,396.76	5,511.42	5,438.45	72.97	75.527	
3,500.00	3,255.41	3,206.41	3,206.41	21.73	54.98	69.94	-2,506.81	5,396.76	5,489.31	5,413.85	75.46	72.742	
3,600.00	3,339.10	3,309.90	3,290.10	22.80	56.79	70.40	-2,506.81	5,396.76	5,467.65	5,389.34	78.31	69.822	
3,700.00	3,422.80	3,373.80	3,373.80	23.87	57.91	70.86	-2,506.81	5,396.76	5,446.46	5,365.98	80.47	67.679	
3,800.00	3,506.50	3,457.50	3,457.50	24.94	59.37	71.33	-2,506.81	5,396.76	5,425.73	5,342.74	83.00	65.374	
3,900.00	3,590.20	3,541.20	3,541.20	26.02	60.83	71.80	-2,506.81	5,396.76	5,405.48	5,319.96	85.52	63.204	
4,000.00	3,673.89	3,624.89	3,624.89	27.10	62.29	72.27	-2,506.81	5,396.76	5,385.71	5,297.65	88.06	61.158	
4,100.00	3,757.59	3,708.59	3,708.59	28.18	63.75	72.74	-2,506.81	5,396.76	5,366.43	5,275.82	90.61	59.227	
4,200.00	3,841.29	3,807.71	3,792.29	29.26	65.48	73.22	-2,506.81	5,396.76	5,347.64	5,254.20	93.43	57.236	
4,300.00	3,924.99	3,875.99	3,875.99	30.35	66.67	73.70	-2,506.81	5,396.76	5,329.34	5,233.62	95.72	55.675	
4,400.00	4,008.68	3,959.68	3,959.68	31.44	68.13	74.18	-2,506.81	5,396.76	5,311.54	5,213.25	98.29	54.040	
4,500.00	4,092.38	4,043.38	4,043.38	32.52	69.59	74.67	-2,506.81	5,396.76	5,294.25	5,193.39	100.86	52.491	
4,600.00	4,176.08	4,127.08	4,127.08	33.62	71.05	75.15	-2,506.81	5,396.76	5,277.47	5,174.03	103.44	51.020	
4,700.00	4,259.77	4,210.77	4,210.77	34.71	72.51	75.64	-2,506.81	5,396.76	5,261.20	5,155.18	106.02	49.623	
4,800.00	4,343.47	4,305.53	4,294.47	35.80	74.17	76.13	-2,506.81	5,396.76	5,245.46	5,136.65	108.80	48.210	
4,900.00	4,427.17	4,378.17	4,378.17	36.89	75.44	76.62	-2,506.81	5,396.76	5,230.24	5,119.03	111.20	47.033	
5,000.00	4,510.87	4,461.87	4,461.87	37.99	76.90	77.12	-2,506.81	5,396.76	5,215.55	5,101.75	113.80	45.831	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	4,545.56	4,545.56	39.08	78.36	77.62	-2,506.81	5,396.76	5,201.39	5,084.99	116.40	44.685	
5,200.00	4,678.26	4,629.26	4,629.26	40.18	79.82	78.11	-2,506.81	5,396.76	5,187.77	5,068.77	119.00	43.593	
5,300.00	4,761.96	4,712.96	4,712.96	41.28	81.28	78.61	-2,506.81	5,396.76	5,174.70	5,053.09	121.61	42.551	
5,400.00	4,845.66	4,803.34	4,796.66	42.37	82.86	79.12	-2,506.81	5,396.76	5,162.17	5,037.84	124.34	41.517	
5,500.00	4,929.35	4,880.35	4,880.35	43.47	84.20	79.62	-2,506.81	5,396.76	5,150.20	5,023.37	126.83	40.606	
5,600.00	5,013.05	4,964.05	4,964.05	44.57	85.66	80.13	-2,506.81	5,396.76	5,138.78	5,009.33	129.45	39.698	
5,700.00	5,096.75	5,047.75	5,047.75	45.67	87.12	80.63	-2,506.81	5,396.76	5,127.92	4,995.85	132.06	38.830	
5,800.00	5,180.45	5,131.45	5,131.45	46.77	88.58	81.14	-2,506.81	5,396.76	5,117.62	4,982.94	134.68	37.999	
5,900.00	5,264.14	5,215.14	5,215.14	47.87	90.04	81.65	-2,506.81	5,396.76	5,107.88	4,970.59	137.29	37.204	
6,000.00	5,347.84	5,301.16	5,298.84	48.97	91.55	82.16	-2,506.81	5,396.76	5,098.72	4,958.77	139.95	36.432	
6,100.00	5,431.54	5,382.54	5,382.54	50.07	92.97	82.68	-2,506.81	5,396.76	5,090.12	4,947.60	142.53	35.714	
6,200.00	5,515.23	5,466.23	5,466.23	51.17	94.43	83.19	-2,506.81	5,396.76	5,082.10	4,936.96	145.14	35.015	
6,300.00	5,598.93	5,549.93	5,549.93	52.27	95.89	83.70	-2,506.81	5,396.76	5,074.66	4,926.90	147.76	34.345	
6,400.00	5,682.63	5,633.63	5,633.63	53.38	97.35	84.22	-2,506.81	5,396.76	5,067.80	4,917.43	150.37	33.702	
6,500.00	5,766.33	5,717.33	5,717.33	54.48	98.81	84.74	-2,506.81	5,396.76	5,061.52	4,908.54	152.98	33.085	
6,600.00	5,850.02	5,801.02	5,801.02	55.58	100.27	85.25	-2,506.81	5,396.76	5,055.83	4,900.23	155.59	32.494	
6,700.00	5,933.72	5,884.72	5,884.72	56.68	101.73	85.77	-2,506.81	5,396.76	5,050.72	4,892.52	158.20	31.926	
6,800.00	6,017.42	5,968.42	5,968.42	57.79	103.19	86.29	-2,506.81	5,396.76	5,046.20	4,885.39	160.81	31.381	
6,900.00	6,101.12	6,052.12	6,052.12	58.89	104.65	86.81	-2,506.81	5,396.76	5,042.27	4,878.86	163.41	30.857	
7,000.00	6,184.81	6,135.81	6,135.81	59.99	106.11	87.33	-2,506.81	5,396.76	5,038.93	4,872.93	166.01	30.354	
7,100.00	6,268.51	6,219.51	6,219.51	61.10	107.57	87.85	-2,506.81	5,396.76	5,036.18	4,867.59	168.60	29.871	
7,200.00	6,352.21	6,303.21	6,303.21	62.20	109.03	88.37	-2,506.81	5,396.76	5,034.03	4,862.84	171.19	29.406	
7,300.00	6,435.90	6,386.90	6,386.90	63.31	110.50	88.89	-2,506.81	5,396.76	5,032.47	4,858.70	173.77	28.960	
7,400.00	6,519.60	6,470.60	6,470.60	64.41	111.96	89.42	-2,506.81	5,396.76	5,031.51	4,855.16	176.35	28.531	
7,500.00	6,603.30	6,554.30	6,554.30	65.51	113.42	89.94	-2,506.81	5,396.76	5,031.14	4,852.21	178.93	28.118	
7,511.90	6,613.26	6,564.26	6,564.26	65.65	113.59	90.00	-2,506.81	5,396.76	5,031.14	4,851.90	179.23	28.070	
7,600.00	6,687.00	6,638.00	6,638.00	66.62	114.88	90.46	-2,506.81	5,396.76	5,031.37	4,849.87	181.50	27.721	
7,700.00	6,770.69	6,721.69	6,721.69	67.72	116.34	90.98	-2,506.81	5,396.76	5,032.19	4,848.13	184.06	27.340	
7,800.00	6,854.39	6,805.39	6,805.39	68.83	117.80	91.50	-2,506.81	5,396.76	5,033.61	4,846.99	186.62	26.973	
7,900.00	6,938.09	6,889.09	6,889.09	69.93	119.26	92.02	-2,506.81	5,396.76	5,035.62	4,846.45	189.17	26.620	
7,933.18	6,965.86	6,916.86	6,916.86	70.30	119.74	92.20	-2,506.81	5,396.76	5,036.42	4,846.41	190.01	26.506	
7,950.00	6,980.00	6,931.00	6,931.00	70.49	119.99	89.97	-2,506.81	5,396.76	5,036.63	4,846.19	190.44	26.448	
8,000.00	7,022.68	6,973.68	6,973.68	71.01	120.74	82.57	-2,506.81	5,396.76	5,034.72	4,843.02	191.70	26.263	
8,050.00	7,066.06	7,017.06	7,017.06	71.51	121.49	74.12	-2,506.81	5,396.76	5,029.04	4,836.09	192.95	26.064	
8,100.00	7,109.82	7,060.82	7,060.82	71.97	122.26	64.93	-2,506.81	5,396.76	5,019.59	4,825.43	194.16	25.852	
8,150.00	7,153.63	7,104.63	7,104.63	72.38	123.02	55.48	-2,506.81	5,396.76	5,006.42	4,811.08	195.34	25.629	
8,200.00	7,197.14	7,148.14	7,148.14	72.74	123.78	46.24	-2,506.81	5,396.76	4,989.61	4,793.15	196.47	25.397	
8,250.00	7,240.04	7,208.96	7,191.04	73.05	124.84	37.57	-2,506.81	5,396.76	4,969.26	4,771.41	197.84	25.117	
8,300.00	7,281.99	7,232.99	7,232.99	73.31	125.26	29.61	-2,506.81	5,396.76	4,945.50	4,746.97	198.53	24.910	
8,350.00	7,322.67	7,273.67	7,273.67	73.52	125.97	22.35	-2,506.81	5,396.76	4,918.49	4,719.03	199.46	24.659	
8,400.00	7,361.77	7,312.77	7,312.77	73.68	126.65	15.64	-2,506.81	5,396.76	4,888.42	4,688.11	200.31	24.404	
8,450.00	7,399.01	7,350.01	7,350.01	73.78	127.30	9.26	-2,506.81	5,396.76	4,855.51	4,654.44	201.08	24.148	
8,500.00	7,434.08	7,385.08	7,385.08	73.85	127.92	2.98	-2,506.81	5,396.76	4,820.00	4,618.25	201.76	23.890	
8,550.00	7,466.74	7,417.74	7,417.74	73.87	128.49	-3.46	-2,506.81	5,396.76	4,782.16	4,579.81	202.35	23.633	
8,600.00	7,496.72	7,447.72	7,447.72	73.85	129.01	-10.37	-2,506.81	5,396.76	4,742.27	4,539.41	202.85	23.378	
8,650.00	7,523.80	7,474.80	7,474.80	73.79	129.48	-18.02	-2,506.81	5,396.76	4,700.64	4,497.38	203.26	23.126	
8,700.00	7,547.77	7,501.23	7,498.77	73.70	129.94	-26.69	-2,506.81	5,396.76	4,657.60	4,453.98	203.62	22.874	
8,750.00	7,568.45	7,519.45	7,519.45	73.58	130.26	-36.53	-2,506.81	5,396.76	4,613.49	4,409.70	203.79	22.638	
8,800.00	7,585.69	7,536.69	7,536.69	73.43	130.56	-47.43	-2,506.81	5,396.76	4,568.66	4,364.75	203.91	22.405	
8,850.00	7,599.35	7,550.35	7,550.35	73.26	130.80	-58.90	-2,506.81	5,396.76	4,523.49	4,319.55	203.93	22.181	
8,900.00	7,609.33	7,560.33	7,560.33	73.07	130.98	-70.13	-2,506.81	5,396.76	4,478.34	4,274.47	203.87	21.967	
8,950.00	7,615.55	7,566.55	7,566.55	72.87	131.08	-80.32	-2,506.81	5,396.76	4,433.59	4,229.88	203.70	21.765	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	7,568.97	7,568.97	72.65	131.13	-88.98	-2,506.81	5,396.76	4,389.61	4,186.15	203.45	21.576	
9,006.60	7,618.00	7,569.00	7,569.00	72.62	131.13	-90.00	-2,506.81	5,396.76	4,383.87	4,180.46	203.41	21.552	
9,100.00	7,618.00	7,569.00	7,569.00	72.22	131.13	-90.00	-2,506.81	5,396.76	4,303.21	4,100.38	202.83	21.216	
9,200.00	7,618.00	7,569.00	7,569.00	71.80	131.13	-90.00	-2,506.81	5,396.76	4,217.43	4,015.25	202.18	20.859	
9,300.00	7,618.00	7,569.00	7,569.00	71.41	131.13	-90.00	-2,506.81	5,396.76	4,132.29	3,930.78	201.51	20.506	
9,400.00	7,618.00	7,569.00	7,569.00	71.04	131.13	-90.00	-2,506.81	5,396.76	4,047.83	3,847.01	200.82	20.157	
9,500.00	7,618.00	7,569.00	7,569.00	70.68	131.13	-90.00	-2,506.81	5,396.76	3,964.09	3,763.99	200.10	19.811	
9,600.00	7,618.00	7,569.00	7,569.00	70.35	131.13	-90.00	-2,506.81	5,396.76	3,881.12	3,681.77	199.35	19.469	
9,700.00	7,618.00	7,569.00	7,569.00	70.04	131.13	-90.00	-2,506.81	5,396.76	3,798.97	3,600.39	198.58	19.131	
9,800.00	7,618.00	7,569.00	7,569.00	69.75	131.13	-90.00	-2,506.81	5,396.76	3,717.70	3,519.92	197.78	18.797	
9,900.00	7,618.00	7,569.00	7,569.00	69.47	131.13	-90.00	-2,506.81	5,396.76	3,637.36	3,440.40	196.96	18.468	
10,000.00	7,618.00	7,569.00	7,569.00	69.22	131.13	-90.00	-2,506.81	5,396.76	3,558.01	3,361.91	196.11	18.143	
10,100.00	7,618.00	7,569.00	7,569.00	68.99	131.13	-90.00	-2,506.81	5,396.76	3,479.73	3,284.50	195.23	17.824	
10,200.00	7,618.00	7,569.00	7,569.00	68.78	131.13	-90.00	-2,506.81	5,396.76	3,402.59	3,208.26	194.33	17.509	
10,300.00	7,618.00	7,569.00	7,569.00	68.59	131.13	-90.00	-2,506.81	5,396.76	3,326.67	3,133.25	193.42	17.199	
10,400.00	7,618.00	7,569.00	7,569.00	68.42	131.13	-90.00	-2,506.81	5,396.76	3,252.05	3,059.57	192.48	16.895	
10,500.00	7,618.00	7,569.00	7,569.00	68.28	131.13	-90.00	-2,506.81	5,396.76	3,178.82	2,987.29	191.54	16.596	
10,600.00	7,618.00	7,569.00	7,569.00	68.16	131.13	-90.00	-2,506.81	5,396.76	3,107.09	2,916.51	190.58	16.303	
10,700.00	7,618.00	7,569.00	7,569.00	68.06	131.13	-90.00	-2,506.81	5,396.76	3,036.95	2,847.32	189.63	16.015	
10,800.00	7,618.00	7,569.00	7,569.00	67.99	131.13	-90.00	-2,506.81	5,396.76	2,968.53	2,779.84	188.69	15.733	
10,900.00	7,618.00	7,569.00	7,569.00	67.95	131.13	-90.00	-2,506.81	5,396.76	2,901.94	2,714.18	187.76	15.455	
11,000.00	7,618.00	7,569.00	7,569.00	67.95	131.13	-90.00	-2,506.81	5,396.76	2,837.31	2,650.44	186.87	15.183	
11,100.00	7,618.00	7,569.00	7,569.00	67.97	131.13	-90.00	-2,506.81	5,396.76	2,774.79	2,588.76	186.03	14.916	
11,200.00	7,618.00	7,569.00	7,569.00	68.04	131.13	-90.00	-2,506.81	5,396.76	2,714.50	2,529.24	185.26	14.652	
11,300.00	7,618.00	7,569.00	7,569.00	68.15	131.13	-90.00	-2,506.81	5,396.76	2,656.62	2,472.04	184.58	14.393	
11,400.00	7,618.00	7,569.00	7,569.00	68.30	131.13	-90.00	-2,506.81	5,396.76	2,601.29	2,417.28	184.01	14.137	
11,500.00	7,618.00	7,569.00	7,569.00	68.50	131.13	-90.00	-2,506.81	5,396.76	2,548.69	2,365.11	183.57	13.884	
11,600.00	7,618.00	7,569.00	7,569.00	68.75	131.13	-90.00	-2,506.81	5,396.76	2,498.98	2,315.67	183.31	13.633	
11,700.00	7,618.00	7,569.00	7,569.00	69.06	131.13	-90.00	-2,506.81	5,396.76	2,452.34	2,269.11	183.23	13.384	
11,800.00	7,618.00	7,569.00	7,569.00	69.44	131.13	-90.00	-2,506.81	5,396.76	2,408.96	2,225.59	183.37	13.137	
11,900.00	7,618.00	7,569.00	7,569.00	69.88	131.13	-90.00	-2,506.81	5,396.76	2,369.00	2,185.26	183.74	12.893	
12,000.00	7,618.00	7,569.00	7,569.00	70.39	131.13	-90.00	-2,506.81	5,396.76	2,332.65	2,148.28	184.37	12.652	
12,100.00	7,618.00	7,569.00	7,569.00	70.97	131.13	-90.00	-2,506.81	5,396.76	2,300.07	2,114.81	185.26	12.415	
12,200.00	7,618.00	7,569.00	7,569.00	71.63	131.13	-90.00	-2,506.81	5,396.76	2,271.44	2,085.03	186.41	12.185	
12,300.00	7,618.00	7,569.00	7,569.00	72.35	131.13	-90.00	-2,506.81	5,396.76	2,246.89	2,059.08	187.81	11.964	
12,400.00	7,618.00	7,569.00	7,569.00	73.15	131.13	-90.00	-2,506.81	5,396.76	2,226.57	2,037.12	189.45	11.753	
12,500.00	7,618.00	7,569.00	7,569.00	74.01	131.13	-90.00	-2,506.81	5,396.76	2,210.59	2,019.29	191.30	11.556	
12,600.00	7,618.00	7,569.00	7,569.00	74.93	131.13	-90.00	-2,506.81	5,396.76	2,199.04	2,005.71	193.33	11.374	
12,700.00	7,618.00	7,569.00	7,569.00	75.91	131.13	-90.00	-2,506.81	5,396.76	2,192.00	1,996.49	195.51	11.211	
12,800.00	7,618.00	7,569.00	7,569.00	76.95	131.13	-90.00	-2,506.81	5,396.76	2,189.51	1,991.70	197.81	11.069	
12,804.55	7,618.00	7,569.00	7,569.00	77.00	131.13	-90.00	-2,506.81	5,396.76	2,189.51	1,991.59	197.92	11.063	CC
12,900.00	7,618.00	7,569.00	7,569.00	78.04	131.13	-90.00	-2,506.81	5,396.76	2,191.59	1,991.41	200.18	10.948	ES
13,000.00	7,618.00	7,569.00	7,569.00	79.16	131.13	-90.00	-2,506.81	5,396.76	2,198.21	1,995.63	202.59	10.851	
13,100.00	7,618.00	7,569.00	7,569.00	80.33	131.13	-90.00	-2,506.81	5,396.76	2,209.35	2,004.35	205.00	10.777	
13,200.00	7,618.00	7,569.00	7,569.00	81.54	131.13	-90.00	-2,506.81	5,396.76	2,224.93	2,017.54	207.39	10.728	
13,300.00	7,618.00	7,569.00	7,569.00	82.78	131.13	-90.00	-2,506.81	5,396.76	2,244.86	2,035.14	209.73	10.704	
13,400.00	7,618.00	7,569.00	7,569.00	84.05	131.13	-90.00	-2,506.81	5,396.76	2,269.03	2,057.04	211.99	10.704	SF
13,500.00	7,618.00	7,569.00	7,569.00	85.35	131.13	-90.00	-2,506.81	5,396.76	2,297.30	2,083.14	214.16	10.727	
13,600.00	7,618.00	7,569.00	7,569.00	86.67	131.13	-90.00	-2,506.81	5,396.76	2,329.52	2,113.31	216.22	10.774	
13,700.00	7,618.00	7,569.00	7,569.00	88.02	131.13	-90.00	-2,506.81	5,396.76	2,365.54	2,147.37	218.16	10.843	
13,800.00	7,618.00	7,569.00	7,569.00	89.38	131.13	-90.00	-2,506.81	5,396.76	2,405.17	2,185.18	219.99	10.933	
13,900.00	7,618.00	7,569.00	7,569.00	90.77	131.13	-90.00	-2,506.81	5,396.76	2,448.25	2,226.57	221.69	11.044	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,618.00	7,569.00	7,569.00	92.17	131.13	-90.00	-2,506.81	5,396.76	2,494.60	2,271.34	223.26	11.173	
14,100.00	7,618.00	7,569.00	7,569.00	93.59	131.13	-90.00	-2,506.81	5,396.76	2,544.04	2,319.32	224.71	11.321	
14,200.00	7,618.00	7,569.00	7,569.00	95.02	131.13	-90.00	-2,506.81	5,396.76	2,596.38	2,370.34	226.04	11.486	
14,300.00	7,618.00	7,569.00	7,569.00	96.47	131.13	-90.00	-2,506.81	5,396.76	2,651.47	2,424.21	227.26	11.667	
14,400.00	7,618.00	7,569.00	7,569.00	97.93	131.13	-90.00	-2,506.81	5,396.76	2,709.13	2,480.76	228.37	11.863	
14,500.00	7,618.00	7,569.00	7,569.00	99.41	131.13	-90.00	-2,506.81	5,396.76	2,769.20	2,539.83	229.38	12.073	
14,600.00	7,618.00	7,569.00	7,569.00	100.89	131.13	-90.00	-2,506.81	5,396.76	2,831.53	2,601.24	230.29	12.296	
14,700.00	7,618.00	7,569.00	7,569.00	102.38	131.13	-90.00	-2,506.81	5,396.76	2,895.97	2,664.86	231.11	12.531	
14,800.00	7,618.00	7,569.00	7,569.00	103.89	131.13	-90.00	-2,506.81	5,396.76	2,962.39	2,730.54	231.85	12.777	
14,900.00	7,618.00	7,569.00	7,569.00	105.40	131.13	-90.00	-2,506.81	5,396.76	3,030.65	2,798.13	232.52	13.034	
15,000.00	7,618.00	7,569.00	7,569.00	106.92	131.13	-90.00	-2,506.81	5,396.76	3,100.63	2,867.52	233.11	13.301	
15,100.00	7,618.00	7,569.00	7,569.00	108.45	131.13	-90.00	-2,506.81	5,396.76	3,172.23	2,938.58	233.65	13.577	
15,200.00	7,618.00	7,569.00	7,569.00	109.99	131.13	-90.00	-2,506.81	5,396.76	3,245.32	3,011.20	234.13	13.861	
15,300.00	7,618.00	7,569.00	7,569.00	111.54	131.13	-90.00	-2,506.81	5,396.76	3,319.82	3,085.27	234.55	14.154	
15,400.00	7,618.00	7,569.00	7,569.00	113.09	131.13	-90.00	-2,506.81	5,396.76	3,395.63	3,160.70	234.93	14.454	
15,500.00	7,618.00	7,569.00	7,569.00	114.65	131.13	-90.00	-2,506.81	5,396.76	3,472.66	3,237.40	235.26	14.761	
15,600.00	7,618.00	7,569.00	7,569.00	116.21	131.13	-90.00	-2,506.81	5,396.76	3,550.84	3,315.28	235.56	15.074	
15,700.00	7,618.00	7,569.00	7,569.00	117.78	131.13	-90.00	-2,506.81	5,396.76	3,630.09	3,394.27	235.82	15.393	
15,800.00	7,618.00	7,569.00	7,569.00	119.36	131.13	-90.00	-2,506.81	5,396.76	3,710.34	3,474.29	236.05	15.718	
15,900.00	7,618.00	7,569.00	7,569.00	120.94	131.13	-90.00	-2,506.81	5,396.76	3,791.53	3,555.28	236.25	16.049	
16,000.00	7,618.00	7,569.00	7,569.00	122.53	131.13	-90.00	-2,506.81	5,396.76	3,873.61	3,637.18	236.43	16.384	
16,100.00	7,618.00	7,569.00	7,569.00	124.12	131.13	-90.00	-2,506.81	5,396.76	3,956.50	3,719.92	236.58	16.724	
16,200.00	7,618.00	7,569.00	7,569.00	125.72	131.13	-90.00	-2,506.81	5,396.76	4,040.17	3,803.46	236.71	17.068	
16,300.00	7,618.00	7,569.00	7,569.00	127.32	131.13	-90.00	-2,506.81	5,396.76	4,124.57	3,887.74	236.83	17.416	
16,400.00	7,618.00	7,569.00	7,569.00	128.93	131.13	-90.00	-2,506.81	5,396.76	4,209.65	3,972.73	236.93	17.768	
16,500.00	7,618.00	7,569.00	7,569.00	130.54	131.13	-90.00	-2,506.81	5,396.76	4,295.38	4,058.37	237.01	18.123	
16,600.00	7,618.00	7,569.00	7,569.00	132.15	131.13	-90.00	-2,506.81	5,396.76	4,381.71	4,144.63	237.08	18.482	
16,700.00	7,618.00	7,569.00	7,569.00	133.77	131.13	-90.00	-2,506.81	5,396.76	4,468.61	4,231.47	237.14	18.844	
16,800.00	7,618.00	7,569.00	7,569.00	135.39	131.13	-90.00	-2,506.81	5,396.76	4,556.04	4,318.86	237.18	19.209	
16,900.00	7,618.00	7,569.00	7,569.00	137.01	131.13	-90.00	-2,506.81	5,396.76	4,643.99	4,406.77	237.22	19.577	
17,000.00	7,618.00	7,569.00	7,569.00	138.64	131.13	-90.00	-2,506.81	5,396.76	4,732.41	4,495.16	237.25	19.947	
17,100.00	7,618.00	7,569.00	7,569.00	140.27	131.13	-90.00	-2,506.81	5,396.76	4,821.29	4,584.02	237.27	20.320	
17,200.00	7,618.00	7,569.00	7,569.00	141.91	131.13	-90.00	-2,506.81	5,396.76	4,910.59	4,673.31	237.28	20.695	
17,300.00	7,618.00	7,569.00	7,569.00	143.55	131.13	-90.00	-2,506.81	5,396.76	5,000.30	4,763.01	237.29	21.072	
17,400.00	7,618.00	7,569.00	7,569.00	145.19	131.13	-90.00	-2,506.81	5,396.76	5,090.39	4,853.10	237.29	21.452	
17,500.00	7,618.00	7,569.00	7,569.00	146.83	131.13	-90.00	-2,506.81	5,396.76	5,180.85	4,943.56	237.29	21.833	
17,600.00	7,618.00	7,569.00	7,569.00	148.48	131.13	-90.00	-2,506.81	5,396.76	5,271.65	5,034.36	237.28	22.217	
17,700.00	7,618.00	7,569.00	7,569.00	150.13	131.13	-90.00	-2,506.81	5,396.76	5,362.77	5,125.50	237.27	22.602	
17,800.00	7,618.00	7,569.00	7,569.00	151.78	131.13	-90.00	-2,506.81	5,396.76	5,454.21	5,216.95	237.26	22.988	
17,900.00	7,618.00	7,569.00	7,569.00	153.43	131.13	-90.00	-2,506.81	5,396.76	5,545.95	5,308.70	237.24	23.377	
18,000.00	7,618.00	7,569.00	7,569.00	155.09	131.13	-90.00	-2,506.81	5,396.76	5,637.96	5,400.74	237.22	23.766	
18,100.00	7,618.00	7,569.00	7,569.00	156.75	131.13	-90.00	-2,506.81	5,396.76	5,730.24	5,493.04	237.20	24.158	
18,200.00	7,618.00	7,569.00	7,569.00	158.41	131.13	-90.00	-2,506.81	5,396.76	5,822.78	5,585.60	237.18	24.550	
18,300.00	7,618.00	7,569.00	7,569.00	160.07	131.13	-90.00	-2,506.81	5,396.76	5,915.56	5,678.41	237.16	24.944	
18,400.00	7,618.00	7,569.00	7,569.00	161.74	131.13	-90.00	-2,506.81	5,396.76	6,008.57	5,771.45	237.13	25.339	
18,500.00	7,618.00	7,569.00	7,569.00	163.41	131.13	-90.00	-2,506.81	5,396.76	6,101.81	5,864.71	237.10	25.735	
18,600.00	7,618.00	7,569.00	7,569.00	165.08	131.13	-90.00	-2,506.81	5,396.76	6,195.25	5,958.18	237.07	26.132	
18,700.00	7,618.00	7,569.00	7,569.00	166.75	131.13	-90.00	-2,506.81	5,396.76	6,288.90	6,051.85	237.04	26.531	
18,711.30	7,618.00	7,569.00	7,569.00	166.94	131.13	-90.00	-2,506.81	5,396.76	6,299.49	6,062.45	237.04	26.576	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	143.49	-4,237.57	3,137.12	5,272.50				
100.00	100.00	73.00	73.00	0.13	0.61	143.49	-4,237.57	3,137.12	5,272.43	5,271.69	0.74	7,128.563	
200.00	200.00	173.00	173.00	0.49	2.10	143.49	-4,237.57	3,137.12	5,272.43	5,269.84	2.60	2,030.966	
300.00	300.00	273.00	273.00	0.85	3.85	143.49	-4,237.57	3,137.12	5,272.43	5,267.73	4.70	1,121.836	
400.00	400.00	373.00	373.00	1.21	5.59	143.49	-4,237.57	3,137.12	5,272.43	5,265.63	6.80	774.945	
500.00	500.00	473.00	473.00	1.57	7.34	143.49	-4,237.57	3,137.12	5,272.43	5,263.52	8.91	591.914	
600.00	600.00	573.00	573.00	1.93	9.08	143.49	-4,237.57	3,137.12	5,272.43	5,261.42	11.01	478.823	
700.00	700.00	673.00	673.00	2.29	10.83	143.49	-4,237.57	3,137.12	5,272.43	5,259.32	13.12	402.015	
800.00	800.00	773.00	773.00	2.64	12.58	143.49	-4,237.57	3,137.12	5,272.43	5,257.21	15.22	346.441	
900.00	900.00	873.00	873.00	3.00	14.32	143.49	-4,237.57	3,137.12	5,272.43	5,255.11	17.32	304.367	
1,000.00	999.98	972.98	972.98	3.36	16.07	86.32	-4,237.57	3,137.12	5,272.32	5,252.90	19.42	271.458	
1,100.00	1,099.84	1,072.84	1,072.84	3.71	17.81	86.38	-4,237.57	3,137.12	5,271.99	5,250.47	21.52	245.002	
1,200.00	1,199.45	1,172.45	1,172.45	4.07	19.55	86.49	-4,237.57	3,137.12	5,271.44	5,247.83	23.62	223.221	
1,300.00	1,298.70	1,271.70	1,271.70	4.44	21.28	86.63	-4,237.57	3,137.12	5,270.70	5,244.99	25.72	204.962	
1,400.00	1,397.47	1,370.47	1,370.47	4.82	23.00	86.82	-4,237.57	3,137.12	5,269.80	5,241.98	27.82	189.414	
1,500.00	1,495.62	1,468.62	1,468.62	5.22	24.72	87.04	-4,237.57	3,137.12	5,268.76	5,238.82	29.94	175.995	
1,600.00	1,593.06	1,566.06	1,566.06	5.65	26.42	87.30	-4,237.57	3,137.12	5,267.62	5,235.55	32.07	164.278	
1,700.00	1,689.64	1,662.64	1,662.64	6.11	28.10	87.60	-4,237.57	3,137.12	5,266.43	5,232.22	34.21	153.943	
1,800.00	1,785.27	1,758.27	1,758.27	6.61	29.77	87.93	-4,237.57	3,137.12	5,265.23	5,228.86	36.38	144.746	
1,900.00	1,879.82	1,852.82	1,852.82	7.15	31.42	88.28	-4,237.57	3,137.12	5,264.10	5,225.53	38.57	136.499	
2,000.00	1,973.17	1,946.17	1,946.17	7.73	33.05	88.67	-4,237.57	3,137.12	5,263.08	5,222.29	40.78	129.055	
2,100.00	2,065.21	2,038.21	2,038.21	8.37	34.66	89.08	-4,237.57	3,137.12	5,262.24	5,219.21	43.03	122.299	
2,200.00	2,155.84	2,128.84	2,128.84	9.07	36.24	89.50	-4,237.57	3,137.12	5,261.67	5,216.36	45.31	116.137	
2,300.00	2,244.94	2,217.94	2,217.94	9.82	37.79	89.95	-4,237.57	3,137.12	5,261.42	5,213.81	47.62	110.495	
2,311.10	2,254.73	2,227.73	2,227.73	9.91	37.96	90.00	-4,237.57	3,137.12	5,261.42	5,213.54	47.88	109.892	
2,400.00	2,332.39	2,305.39	2,305.39	10.64	39.32	90.41	-4,237.57	3,137.12	5,261.60	5,211.64	49.96	105.312	
2,500.00	2,418.11	2,408.89	2,391.11	11.53	41.13	90.87	-4,237.57	3,137.12	5,262.27	5,209.62	52.65	99.945	
2,558.91	2,467.74	2,440.74	2,440.74	12.08	41.68	91.15	-4,237.57	3,137.12	5,262.94	5,209.18	53.76	97.900	
2,600.00	2,502.13	2,475.13	2,475.13	12.47	42.28	91.36	-4,237.57	3,137.12	5,263.53	5,208.78	54.75	96.133	
2,700.00	2,585.83	2,558.83	2,558.83	13.45	43.74	91.86	-4,237.57	3,137.12	5,265.36	5,208.17	57.19	92.068	
2,800.00	2,669.53	2,642.53	2,642.53	14.44	45.20	92.35	-4,237.57	3,137.12	5,267.76	5,208.12	59.65	88.319	
2,900.00	2,753.22	2,726.22	2,726.22	15.46	46.67	92.85	-4,237.57	3,137.12	5,270.73	5,208.62	62.11	84.856	
3,000.00	2,836.92	2,809.92	2,809.92	16.48	48.13	93.35	-4,237.57	3,137.12	5,274.27	5,209.67	64.59	81.653	
3,100.00	2,920.62	2,906.38	2,893.62	17.52	49.81	93.85	-4,237.57	3,137.12	5,278.37	5,211.06	67.30	78.426	
3,200.00	3,004.32	2,977.32	2,977.32	18.56	51.05	94.34	-4,237.57	3,137.12	5,283.03	5,213.45	69.58	75.933	
3,300.00	3,088.01	3,061.01	3,061.01	19.61	52.51	94.84	-4,237.57	3,137.12	5,288.25	5,216.18	72.07	73.373	
3,400.00	3,171.71	3,144.71	3,144.71	20.67	53.97	95.33	-4,237.57	3,137.12	5,294.04	5,219.46	74.57	70.990	
3,500.00	3,255.41	3,228.41	3,228.41	21.73	55.43	95.83	-4,237.57	3,137.12	5,300.38	5,223.31	77.08	68.766	
3,600.00	3,339.10	3,312.10	3,312.10	22.80	56.89	96.32	-4,237.57	3,137.12	5,307.28	5,227.70	79.58	66.689	
3,700.00	3,422.80	3,404.20	3,395.80	23.87	58.50	96.81	-4,237.57	3,137.12	5,314.74	5,232.51	82.23	64.630	
3,800.00	3,506.50	3,479.50	3,479.50	24.94	59.81	97.30	-4,237.57	3,137.12	5,322.75	5,238.16	84.59	62.924	
3,900.00	3,590.20	3,563.20	3,563.20	26.02	61.27	97.79	-4,237.57	3,137.12	5,331.31	5,244.21	87.09	61.215	
4,000.00	3,673.89	3,646.89	3,646.89	27.10	62.73	98.28	-4,237.57	3,137.12	5,340.41	5,250.82	89.59	59.608	
4,100.00	3,757.59	3,730.59	3,730.59	28.18	64.19	98.77	-4,237.57	3,137.12	5,350.06	5,257.97	92.09	58.097	
4,200.00	3,841.29	3,814.29	3,814.29	29.26	65.66	99.26	-4,237.57	3,137.12	5,360.25	5,265.67	94.58	56.672	
4,300.00	3,924.99	3,902.01	3,897.99	30.35	67.19	99.74	-4,237.57	3,137.12	5,370.98	5,273.83	97.14	55.289	
4,400.00	4,008.68	3,981.68	3,981.68	31.44	68.58	100.23	-4,237.57	3,137.12	5,382.24	5,282.68	99.56	54.060	
4,500.00	4,092.38	4,065.38	4,065.38	32.52	70.04	100.71	-4,237.57	3,137.12	5,394.04	5,291.99	102.04	52.860	
4,600.00	4,176.08	4,149.08	4,149.08	33.62	71.50	101.19	-4,237.57	3,137.12	5,406.36	5,301.84	104.52	51.725	
4,700.00	4,259.77	4,232.77	4,232.77	34.71	72.96	101.67	-4,237.57	3,137.12	5,419.21	5,312.21	107.00	50.649	
4,800.00	4,343.47	4,316.47	4,316.47	35.80	74.42	102.15	-4,237.57	3,137.12	5,432.58	5,323.11	109.46	49.629	
4,900.00	4,427.17	4,400.17	4,400.17	36.89	75.88	102.62	-4,237.57	3,137.12	5,446.46	5,334.54	111.93	48.661	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,510.87	4,483.87	4,483.87	37.99	77.34	103.10	-4,237.57	3,137.12	5,460.86	5,346.48	114.38	47.742	
5,100.00	4,594.56	4,567.56	4,567.56	39.08	78.80	103.57	-4,237.57	3,137.12	5,475.77	5,358.94	116.83	46.868	
5,200.00	4,678.26	4,651.26	4,651.26	40.18	80.26	104.04	-4,237.57	3,137.12	5,491.19	5,371.91	119.28	46.037	
5,300.00	4,761.96	4,734.96	4,734.96	41.28	81.72	104.51	-4,237.57	3,137.12	5,507.10	5,385.38	121.72	45.245	
5,400.00	4,845.66	4,818.66	4,818.66	42.37	83.19	104.97	-4,237.57	3,137.12	5,523.51	5,399.36	124.15	44.491	
5,500.00	4,929.35	4,902.35	4,902.35	43.47	84.65	105.44	-4,237.57	3,137.12	5,540.41	5,413.84	126.57	43.772	
5,600.00	5,013.05	4,986.05	4,986.05	44.57	86.11	105.90	-4,237.57	3,137.12	5,557.80	5,428.81	128.99	43.086	
5,700.00	5,096.75	5,050.00	5,050.00	45.67	87.22	106.25	-4,237.57	3,137.12	5,575.71	5,444.66	131.05	42.545	
5,800.00	5,180.45	5,050.00	5,050.00	46.77	87.22	106.25	-4,237.57	3,137.12	5,594.98	5,463.03	131.95	42.403	
5,900.00	5,264.14	5,050.00	5,050.00	47.87	87.22	106.25	-4,237.57	3,137.12	5,615.97	5,483.16	132.80	42.287	
6,000.00	5,347.84	5,050.00	5,050.00	48.97	87.22	106.25	-4,237.57	3,137.12	5,638.65	5,505.03	133.62	42.198	
6,100.00	5,431.54	5,050.00	5,050.00	50.07	87.22	106.25	-4,237.57	3,137.12	5,663.01	5,528.60	134.41	42.134	
6,200.00	5,515.23	5,050.00	5,050.00	51.17	87.22	106.25	-4,237.57	3,137.12	5,689.02	5,553.87	135.15	42.094	
6,300.00	5,598.93	5,050.00	5,050.00	52.27	87.22	106.25	-4,237.57	3,137.12	5,716.66	5,580.81	135.86	42.078	
6,400.00	5,682.63	5,050.00	5,050.00	53.38	87.22	106.25	-4,237.57	3,137.12	5,745.91	5,609.39	136.53	42.086	
6,500.00	5,766.33	5,050.00	5,050.00	54.48	87.22	106.25	-4,237.57	3,137.12	5,776.75	5,639.58	137.16	42.115	
6,600.00	5,850.02	5,050.00	5,050.00	55.58	87.22	106.25	-4,237.57	3,137.12	5,809.14	5,671.38	137.76	42.167	
6,700.00	5,933.72	5,050.00	5,050.00	56.68	87.22	106.25	-4,237.57	3,137.12	5,843.06	5,704.73	138.33	42.240	
6,800.00	6,017.42	5,050.00	5,050.00	57.79	87.22	106.25	-4,237.57	3,137.12	5,878.49	5,739.63	138.86	42.334	
6,900.00	6,101.12	5,050.00	5,050.00	58.89	87.22	106.25	-4,237.57	3,137.12	5,915.40	5,776.04	139.36	42.447	
7,000.00	6,184.81	5,050.00	5,050.00	59.99	87.22	106.25	-4,237.57	3,137.12	5,953.76	5,813.93	139.82	42.580	
7,100.00	6,268.51	5,050.00	5,050.00	61.10	87.22	106.25	-4,237.57	3,137.12	5,993.54	5,853.28	140.26	42.732	
7,200.00	6,352.21	5,050.00	5,050.00	62.20	87.22	106.25	-4,237.57	3,137.12	6,034.72	5,894.05	140.66	42.902	
7,300.00	6,435.90	5,050.00	5,050.00	63.31	87.22	106.25	-4,237.57	3,137.12	6,077.26	5,936.22	141.04	43.090	
7,400.00	6,519.60	5,050.00	5,050.00	64.41	87.22	106.25	-4,237.57	3,137.12	6,121.14	5,979.76	141.38	43.295	
7,500.00	6,603.30	5,050.00	5,050.00	65.51	87.22	106.25	-4,237.57	3,137.12	6,166.33	6,024.63	141.70	43.516	
7,600.00	6,687.00	5,050.00	5,050.00	66.62	87.22	106.25	-4,237.57	3,137.12	6,212.81	6,070.81	141.99	43.754	
7,700.00	6,770.69	5,050.00	5,050.00	67.72	87.22	106.25	-4,237.57	3,137.12	6,260.53	6,118.27	142.26	44.008	
7,800.00	6,854.39	5,050.00	5,050.00	68.83	87.22	106.25	-4,237.57	3,137.12	6,309.48	6,166.98	142.50	44.277	
7,900.00	6,938.09	5,050.00	5,050.00	69.93	87.22	106.25	-4,237.57	3,137.12	6,359.62	6,216.90	142.72	44.560	
7,933.18	6,965.86	5,050.00	5,050.00	70.30	87.22	106.25	-4,237.57	3,137.12	6,376.52	6,233.73	142.79	44.658	
7,950.00	6,980.00	5,050.00	5,050.00	70.49	87.22	104.14	-4,237.57	3,137.12	6,384.93	6,242.11	142.82	44.706	
8,000.00	7,022.68	5,050.00	5,050.00	71.01	87.22	97.09	-4,237.57	3,137.12	6,407.61	6,264.70	142.91	44.838	
8,050.00	7,066.06	5,050.00	5,050.00	71.51	87.22	89.05	-4,237.57	3,137.12	6,426.73	6,283.75	142.98	44.950	
8,100.00	7,109.82	5,050.00	5,050.00	71.97	87.22	80.37	-4,237.57	3,137.12	6,442.18	6,299.15	143.02	45.042	
8,150.00	7,153.63	5,050.00	5,050.00	72.38	87.22	71.53	-4,237.57	3,137.12	6,453.86	6,310.81	143.05	45.116	
8,200.00	7,197.14	5,050.00	5,050.00	72.74	87.22	63.05	-4,237.57	3,137.12	6,461.71	6,318.67	143.05	45.172	
8,250.00	7,240.04	5,050.00	5,050.00	73.05	87.22	55.30	-4,237.57	3,137.12	6,465.69	6,322.67	143.02	45.210	
8,300.00	7,281.99	5,050.00	5,050.00	73.31	87.22	48.48	-4,237.57	3,137.12	6,465.77	6,322.81	142.95	45.230	
8,350.00	7,322.67	5,050.00	5,050.00	73.52	87.22	42.61	-4,237.57	3,137.12	6,461.94	6,319.08	142.86	45.232	
8,400.00	7,361.77	5,050.00	5,050.00	73.68	87.22	37.61	-4,237.57	3,137.12	6,454.24	6,311.50	142.74	45.217	
8,450.00	7,399.01	5,050.00	5,050.00	73.78	87.22	33.36	-4,237.57	3,137.12	6,442.70	6,300.11	142.59	45.183	
8,500.00	7,434.08	5,050.00	5,050.00	73.85	87.22	29.73	-4,237.57	3,137.12	6,427.40	6,284.98	142.42	45.131	
8,550.00	7,466.74	5,050.00	5,050.00	73.87	87.22	26.58	-4,237.57	3,137.12	6,408.42	6,266.20	142.22	45.060	
8,600.00	7,496.72	5,050.00	5,050.00	73.85	87.22	23.81	-4,237.57	3,137.12	6,385.88	6,243.87	142.00	44.970	
8,650.00	7,523.80	5,050.00	5,050.00	73.79	87.22	21.31	-4,237.57	3,137.12	6,359.90	6,218.13	141.77	44.861	
8,700.00	7,547.77	5,050.00	5,050.00	73.70	87.22	18.99	-4,237.57	3,137.12	6,330.66	6,189.14	141.52	44.733	
8,750.00	7,568.45	5,050.00	5,050.00	73.58	87.22	16.76	-4,237.57	3,137.12	6,298.32	6,157.05	141.27	44.585	
8,800.00	7,585.69	5,050.00	5,050.00	73.43	87.22	14.52	-4,237.57	3,137.12	6,263.09	6,122.08	141.01	44.417	
8,850.00	7,599.35	5,050.00	5,050.00	73.26	87.22	12.14	-4,237.57	3,137.12	6,225.18	6,084.44	140.74	44.231	
8,900.00	7,609.33	5,050.00	5,050.00	73.07	87.22	9.46	-4,237.57	3,137.12	6,184.85	6,044.36	140.49	44.024	
8,950.00	7,615.55	5,050.00	5,050.00	72.87	87.22	6.23	-4,237.57	3,137.12	6,142.35	6,002.11	140.24	43.800	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	5,050.00	5,050.00	72.65	87.22	2.09	-4,237.57	3,137.12	6,097.96	5,957.96	140.00	43.556	
9,006.60	7,618.00	5,050.00	5,050.00	72.62	87.22	1.45	-4,237.57	3,137.12	6,091.97	5,952.00	139.97	43.522	
9,100.00	7,618.00	5,050.00	5,050.00	72.22	87.22	1.45	-4,237.57	3,137.12	6,007.22	5,867.68	139.54	43.050	
9,200.00	7,618.00	5,050.00	5,050.00	71.80	87.22	1.45	-4,237.57	3,137.12	5,916.76	5,777.70	139.06	42.548	
9,300.00	7,618.00	5,050.00	5,050.00	71.41	87.22	1.45	-4,237.57	3,137.12	5,826.62	5,688.05	138.56	42.050	
9,400.00	7,618.00	5,050.00	5,050.00	71.04	87.22	1.45	-4,237.57	3,137.12	5,736.80	5,598.75	138.05	41.556	
9,500.00	7,618.00	5,050.00	5,050.00	70.68	87.22	1.45	-4,237.57	3,137.12	5,647.33	5,509.81	137.52	41.067	
9,600.00	7,618.00	5,050.00	5,050.00	70.35	87.22	1.45	-4,237.57	3,137.12	5,558.21	5,421.25	136.96	40.582	
9,700.00	7,618.00	5,050.00	5,050.00	70.04	87.22	1.45	-4,237.57	3,137.12	5,469.47	5,333.08	136.39	40.102	
9,800.00	7,618.00	5,050.00	5,050.00	69.75	87.22	1.45	-4,237.57	3,137.12	5,381.13	5,245.33	135.79	39.627	
9,900.00	7,618.00	5,050.00	5,050.00	69.47	87.22	1.45	-4,237.57	3,137.12	5,293.20	5,158.02	135.18	39.158	
10,000.00	7,618.00	5,050.00	5,050.00	69.22	87.22	1.45	-4,237.57	3,137.12	5,205.70	5,071.17	134.53	38.695	
10,100.00	7,618.00	5,050.00	5,050.00	68.99	87.22	1.45	-4,237.57	3,137.12	5,118.67	4,984.80	133.87	38.237	
10,200.00	7,618.00	5,050.00	5,050.00	68.78	87.22	1.45	-4,237.57	3,137.12	5,032.11	4,898.94	133.17	37.786	
10,300.00	7,618.00	5,050.00	5,050.00	68.59	87.22	1.45	-4,237.57	3,137.12	4,946.06	4,813.61	132.45	37.342	
10,400.00	7,618.00	5,050.00	5,050.00	68.42	87.22	1.45	-4,237.57	3,137.12	4,860.55	4,728.85	131.70	36.905	
10,500.00	7,618.00	5,050.00	5,050.00	68.28	87.22	1.45	-4,237.57	3,137.12	4,775.60	4,644.68	130.92	36.476	
10,600.00	7,618.00	5,050.00	5,050.00	68.16	87.22	1.45	-4,237.57	3,137.12	4,691.24	4,561.13	130.11	36.055	
10,700.00	7,618.00	5,050.00	5,050.00	68.06	87.22	1.45	-4,237.57	3,137.12	4,607.51	4,478.24	129.27	35.643	
10,800.00	7,618.00	5,050.00	5,050.00	67.99	87.22	1.45	-4,237.57	3,137.12	4,524.44	4,396.05	128.39	35.239	
10,900.00	7,618.00	5,050.00	5,050.00	67.95	87.22	1.45	-4,237.57	3,137.12	4,442.07	4,314.59	127.48	34.845	
11,000.00	7,618.00	5,050.00	5,050.00	67.95	87.22	1.45	-4,237.57	3,137.12	4,360.44	4,233.91	126.53	34.462	
11,100.00	7,618.00	5,050.00	5,050.00	67.97	87.22	1.45	-4,237.57	3,137.12	4,279.58	4,154.04	125.54	34.089	
11,200.00	7,618.00	5,050.00	5,050.00	68.04	87.22	1.45	-4,237.57	3,137.12	4,199.55	4,075.04	124.51	33.728	
11,300.00	7,618.00	5,050.00	5,050.00	68.15	87.22	1.45	-4,237.57	3,137.12	4,120.39	3,996.95	123.44	33.379	
11,400.00	7,618.00	5,050.00	5,050.00	68.30	87.22	1.45	-4,237.57	3,137.12	4,042.16	3,919.83	122.33	33.043	
11,500.00	7,618.00	5,050.00	5,050.00	68.50	87.22	1.45	-4,237.57	3,137.12	3,964.90	3,843.73	121.18	32.720	
11,600.00	7,618.00	5,050.00	5,050.00	68.75	87.22	1.45	-4,237.57	3,137.12	3,888.68	3,768.71	119.97	32.413	
11,700.00	7,618.00	5,050.00	5,050.00	69.06	87.22	1.45	-4,237.57	3,137.12	3,813.56	3,694.83	118.73	32.120	
11,800.00	7,618.00	5,050.00	5,050.00	69.44	87.22	1.45	-4,237.57	3,137.12	3,739.61	3,622.17	117.43	31.844	
11,900.00	7,618.00	5,050.00	5,050.00	69.88	87.22	1.45	-4,237.57	3,137.12	3,666.89	3,550.80	116.09	31.586	
12,000.00	7,618.00	5,050.00	5,050.00	70.39	87.22	1.45	-4,237.57	3,137.12	3,595.48	3,480.78	114.70	31.346	
12,100.00	7,618.00	5,050.00	5,050.00	70.97	87.22	1.45	-4,237.57	3,137.12	3,525.46	3,412.20	113.27	31.125	
12,200.00	7,618.00	5,050.00	5,050.00	71.63	87.22	1.45	-4,237.57	3,137.12	3,456.92	3,345.14	111.78	30.926	
12,300.00	7,618.00	5,050.00	5,050.00	72.35	87.22	1.45	-4,237.57	3,137.12	3,389.94	3,279.69	110.25	30.748	
12,400.00	7,618.00	5,050.00	5,050.00	73.15	87.22	1.45	-4,237.57	3,137.12	3,324.62	3,215.95	108.67	30.592	
12,500.00	7,618.00	5,050.00	5,050.00	74.01	87.22	1.45	-4,237.57	3,137.12	3,261.06	3,154.01	107.05	30.462	
12,600.00	7,618.00	5,050.00	5,050.00	74.93	87.22	1.45	-4,237.57	3,137.12	3,199.36	3,093.97	105.39	30.356	
12,700.00	7,618.00	5,050.00	5,050.00	75.91	87.22	1.45	-4,237.57	3,137.12	3,139.64	3,035.94	103.69	30.278	
12,800.00	7,618.00	5,050.00	5,050.00	76.95	87.22	1.45	-4,237.57	3,137.12	3,082.00	2,980.04	101.96	30.227	
12,900.00	7,618.00	5,050.00	5,050.00	78.04	87.22	1.45	-4,237.57	3,137.12	3,026.57	2,926.38	100.20	30.206	
13,000.00	7,618.00	5,050.00	5,050.00	79.16	87.22	1.45	-4,237.57	3,137.12	2,973.47	2,875.06	98.41	30.216	
13,100.00	7,618.00	5,050.00	5,050.00	80.33	87.22	1.45	-4,237.57	3,137.12	2,922.83	2,826.23	96.60	30.257	
13,200.00	7,618.00	5,050.00	5,050.00	81.54	87.22	1.45	-4,237.57	3,137.12	2,874.78	2,780.00	94.78	30.330	
13,300.00	7,618.00	5,050.00	5,050.00	82.78	87.22	1.45	-4,237.57	3,137.12	2,829.45	2,736.48	92.96	30.437	
13,400.00	7,618.00	5,050.00	5,050.00	84.05	87.22	1.45	-4,237.57	3,137.12	2,786.97	2,695.82	91.15	30.577	
13,500.00	7,618.00	5,050.00	5,050.00	85.35	87.22	1.45	-4,237.57	3,137.12	2,747.47	2,658.12	89.35	30.750	
13,600.00	7,618.00	5,050.00	5,050.00	86.67	87.22	1.45	-4,237.57	3,137.12	2,711.09	2,623.51	87.58	30.955	
13,700.00	7,618.00	5,050.00	5,050.00	88.02	87.22	1.45	-4,237.57	3,137.12	2,677.95	2,592.08	85.86	31.189	
13,800.00	7,618.00	5,050.00	5,050.00	89.38	87.22	1.45	-4,237.57	3,137.12	2,648.17	2,563.95	84.22	31.445	
13,900.00	7,618.00	5,050.00	5,050.00	90.77	87.22	1.45	-4,237.57	3,137.12	2,621.87	2,539.20	82.67	31.715	
14,000.00	7,618.00	5,050.00	5,050.00	92.17	87.22	1.45	-4,237.57	3,137.12	2,599.16	2,517.89	81.26	31.984	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,618.00	5,050.00	5,050.00	93.59	87.22	1.45	-4,237.57	3,137.12	2,580.12	2,500.06	80.06	32.227	
14,200.00	7,618.00	5,050.00	5,050.00	95.02	87.22	1.45	-4,237.57	3,137.12	2,564.85	2,485.71	79.13	32.411	
14,300.00	7,618.00	5,050.00	5,050.00	96.47	87.22	1.45	-4,237.57	3,137.12	2,553.40	2,474.80	78.59	32.489	
14,400.00	7,618.00	5,050.00	5,050.00	97.93	87.22	1.45	-4,237.57	3,137.12	2,545.83	2,467.26	78.57	32.404	
14,500.00	7,618.00	5,050.00	5,050.00	99.41	87.22	1.45	-4,237.57	3,137.12	2,542.18	2,463.00	79.17	32.109	
14,542.96	7,618.00	5,050.00	5,050.00	100.04	87.22	1.45	-4,237.57	3,137.12	2,541.81	2,462.16	79.65	31.911	CC
14,600.00	7,618.00	5,050.00	5,050.00	100.89	87.22	1.45	-4,237.57	3,137.12	2,542.45	2,461.96	80.49	31.586	ES
14,700.00	7,618.00	5,050.00	5,050.00	102.38	87.22	1.45	-4,237.57	3,137.12	2,546.66	2,464.16	82.50	30.868	
14,800.00	7,618.00	5,050.00	5,050.00	103.89	87.22	1.45	-4,237.57	3,137.12	2,554.78	2,469.68	85.09	30.023	
14,900.00	7,618.00	5,050.00	5,050.00	105.40	87.22	1.45	-4,237.57	3,137.12	2,566.77	2,478.65	88.12	29.129	
15,000.00	7,618.00	5,050.00	5,050.00	106.92	87.22	1.45	-4,237.57	3,137.12	2,582.57	2,491.14	91.43	28.246	
15,100.00	7,618.00	5,050.00	5,050.00	108.45	87.22	1.45	-4,237.57	3,137.12	2,602.13	2,507.23	94.91	27.418	
15,200.00	7,618.00	5,050.00	5,050.00	109.99	87.22	1.45	-4,237.57	3,137.12	2,625.36	2,526.90	98.46	26.665	
15,300.00	7,618.00	5,050.00	5,050.00	111.54	87.22	1.45	-4,237.57	3,137.12	2,652.15	2,550.14	102.01	25.998	
15,400.00	7,618.00	5,050.00	5,050.00	113.09	87.22	1.45	-4,237.57	3,137.12	2,682.41	2,576.89	105.52	25.420	
15,500.00	7,618.00	5,050.00	5,050.00	114.65	87.22	1.45	-4,237.57	3,137.12	2,716.01	2,607.06	108.95	24.928	
15,600.00	7,618.00	5,050.00	5,050.00	116.21	87.22	1.45	-4,237.57	3,137.12	2,752.84	2,640.56	112.28	24.518	
15,700.00	7,618.00	5,050.00	5,050.00	117.78	87.22	1.45	-4,237.57	3,137.12	2,792.77	2,677.29	115.48	24.185	
15,800.00	7,618.00	5,050.00	5,050.00	119.36	87.22	1.45	-4,237.57	3,137.12	2,835.66	2,717.12	118.54	23.921	
15,900.00	7,618.00	5,050.00	5,050.00	120.94	87.22	1.45	-4,237.57	3,137.12	2,881.38	2,759.92	121.46	23.723	
16,000.00	7,618.00	5,050.00	5,050.00	122.53	87.22	1.45	-4,237.57	3,137.12	2,929.81	2,805.57	124.23	23.583	
16,100.00	7,618.00	5,050.00	5,050.00	124.12	87.22	1.45	-4,237.57	3,137.12	2,980.80	2,853.94	126.86	23.498	
16,200.00	7,618.00	5,050.00	5,050.00	125.72	87.22	1.45	-4,237.57	3,137.12	3,034.23	2,904.90	129.33	23.461	SF
16,300.00	7,618.00	5,050.00	5,050.00	127.32	87.22	1.45	-4,237.57	3,137.12	3,089.98	2,958.32	131.66	23.469	
16,400.00	7,618.00	5,050.00	5,050.00	128.93	87.22	1.45	-4,237.57	3,137.12	3,147.92	3,014.06	133.86	23.517	
16,500.00	7,618.00	5,050.00	5,050.00	130.54	87.22	1.45	-4,237.57	3,137.12	3,207.93	3,072.01	135.91	23.603	
16,600.00	7,618.00	5,050.00	5,050.00	132.15	87.22	1.45	-4,237.57	3,137.12	3,269.89	3,132.05	137.84	23.722	
16,700.00	7,618.00	5,050.00	5,050.00	133.77	87.22	1.45	-4,237.57	3,137.12	3,333.71	3,194.06	139.65	23.873	
16,800.00	7,618.00	5,050.00	5,050.00	135.39	87.22	1.45	-4,237.57	3,137.12	3,399.27	3,257.93	141.33	24.051	
16,900.00	7,618.00	5,050.00	5,050.00	137.01	87.22	1.45	-4,237.57	3,137.12	3,466.47	3,323.56	142.91	24.256	
17,000.00	7,618.00	5,050.00	5,050.00	138.64	87.22	1.45	-4,237.57	3,137.12	3,535.23	3,390.84	144.38	24.485	
17,100.00	7,618.00	5,050.00	5,050.00	140.27	87.22	1.45	-4,237.57	3,137.12	3,605.45	3,459.69	145.76	24.735	
17,200.00	7,618.00	5,050.00	5,050.00	141.91	87.22	1.45	-4,237.57	3,137.12	3,677.04	3,530.00	147.05	25.006	
17,300.00	7,618.00	5,050.00	5,050.00	143.55	87.22	1.45	-4,237.57	3,137.12	3,749.94	3,601.70	148.25	25.296	
17,400.00	7,618.00	5,050.00	5,050.00	145.19	87.22	1.45	-4,237.57	3,137.12	3,824.06	3,674.70	149.36	25.602	
17,500.00	7,618.00	5,050.00	5,050.00	146.83	87.22	1.45	-4,237.57	3,137.12	3,899.34	3,748.93	150.41	25.925	
17,600.00	7,618.00	5,050.00	5,050.00	148.48	87.22	1.45	-4,237.57	3,137.12	3,975.71	3,824.33	151.39	26.262	
17,700.00	7,618.00	5,050.00	5,050.00	150.13	87.22	1.45	-4,237.57	3,137.12	4,053.11	3,900.81	152.30	26.613	
17,800.00	7,618.00	5,050.00	5,050.00	151.78	87.22	1.45	-4,237.57	3,137.12	4,131.48	3,978.33	153.15	26.977	
17,900.00	7,618.00	5,050.00	5,050.00	153.43	87.22	1.45	-4,237.57	3,137.12	4,210.76	4,056.82	153.94	27.352	
18,000.00	7,618.00	5,050.00	5,050.00	155.09	87.22	1.45	-4,237.57	3,137.12	4,290.91	4,136.22	154.69	27.739	
18,100.00	7,618.00	5,050.00	5,050.00	156.75	87.22	1.45	-4,237.57	3,137.12	4,371.88	4,216.49	155.38	28.136	
18,200.00	7,618.00	5,050.00	5,050.00	158.41	87.22	1.45	-4,237.57	3,137.12	4,453.62	4,297.58	156.04	28.542	
18,300.00	7,618.00	5,050.00	5,050.00	160.07	87.22	1.45	-4,237.57	3,137.12	4,536.09	4,379.45	156.65	28.958	
18,400.00	7,618.00	5,050.00	5,050.00	161.74	87.22	1.45	-4,237.57	3,137.12	4,619.26	4,462.04	157.22	29.381	
18,500.00	7,618.00	5,050.00	5,050.00	163.41	87.22	1.45	-4,237.57	3,137.12	4,703.08	4,545.33	157.75	29.813	
18,600.00	7,618.00	5,050.00	5,050.00	165.08	87.22	1.45	-4,237.57	3,137.12	4,787.52	4,629.27	158.26	30.252	
18,700.00	7,618.00	5,050.00	5,050.00	166.75	87.22	1.45	-4,237.57	3,137.12	4,872.55	4,713.82	158.73	30.698	
18,711.30	7,618.00	5,050.00	5,050.00	166.94	87.22	1.45	-4,237.57	3,137.12	4,882.20	4,723.42	158.78	30.748	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	156.78	-4,237.70	1,818.09	4,611.31				
100.00	100.00	75.00	75.00	0.13	0.62	156.78	-4,237.70	1,818.09	4,611.24	4,610.49	0.75	6,151.140	
200.00	200.00	175.00	175.00	0.49	2.13	156.78	-4,237.70	1,818.09	4,611.24	4,608.62	2.62	1,758.538	
300.00	300.00	275.00	275.00	0.85	3.87	156.78	-4,237.70	1,818.09	4,611.24	4,606.52	4.73	975.717	
400.00	400.00	375.00	375.00	1.21	5.62	156.78	-4,237.70	1,818.09	4,611.24	4,604.41	6.83	675.165	
500.00	500.00	475.00	475.00	1.57	7.37	156.78	-4,237.70	1,818.09	4,611.24	4,602.31	8.93	516.168	
600.00	600.00	575.00	575.00	1.93	9.11	156.78	-4,237.70	1,818.09	4,611.24	4,600.20	11.04	417.783	
700.00	700.00	675.00	675.00	2.29	10.86	156.78	-4,237.70	1,818.09	4,611.24	4,598.10	13.14	350.899	
800.00	800.00	775.00	775.00	2.64	12.60	156.78	-4,237.70	1,818.09	4,611.24	4,596.00	15.25	302.476	
900.00	900.00	875.00	875.00	3.00	14.35	156.78	-4,237.70	1,818.09	4,611.24	4,593.89	17.35	265.796	
1,000.00	999.98	974.98	974.98	3.36	16.09	99.60	-4,237.70	1,818.09	4,611.53	4,592.08	19.45	237.114	
1,100.00	1,099.84	1,074.84	1,074.84	3.71	17.83	99.65	-4,237.70	1,818.09	4,612.41	4,590.86	21.54	214.083	
1,200.00	1,199.45	1,174.45	1,174.45	4.07	19.57	99.73	-4,237.70	1,818.09	4,613.88	4,590.24	23.64	195.150	
1,300.00	1,298.70	1,273.70	1,273.70	4.44	21.31	99.84	-4,237.70	1,818.09	4,615.97	4,590.22	25.74	179.305	
1,400.00	1,397.47	1,372.47	1,372.47	4.82	23.03	99.97	-4,237.70	1,818.09	4,618.69	4,590.84	27.85	165.839	
1,500.00	1,495.62	1,470.62	1,470.62	5.22	24.74	100.13	-4,237.70	1,818.09	4,622.08	4,592.12	29.97	154.245	
1,600.00	1,593.06	1,568.06	1,568.06	5.65	26.44	100.32	-4,237.70	1,818.09	4,626.18	4,594.08	32.09	144.146	
1,700.00	1,689.64	1,664.64	1,664.64	6.11	28.13	100.53	-4,237.70	1,818.09	4,631.02	4,596.78	34.24	135.263	
1,800.00	1,785.27	1,760.27	1,760.27	6.61	29.80	100.76	-4,237.70	1,818.09	4,636.66	4,600.26	36.40	127.383	
1,900.00	1,879.82	1,854.82	1,854.82	7.15	31.45	101.00	-4,237.70	1,818.09	4,643.15	4,604.56	38.58	120.341	
2,000.00	1,973.17	1,948.17	1,948.17	7.73	33.08	101.26	-4,237.70	1,818.09	4,650.54	4,609.75	40.79	114.007	
2,100.00	2,065.21	2,040.21	2,040.21	8.37	34.68	101.54	-4,237.70	1,818.09	4,658.90	4,615.88	43.03	108.281	
2,200.00	2,155.84	2,130.84	2,130.84	9.07	36.27	101.81	-4,237.70	1,818.09	4,668.30	4,623.01	45.29	103.081	
2,300.00	2,244.94	2,219.94	2,219.94	9.82	37.82	102.09	-4,237.70	1,818.09	4,678.80	4,631.22	47.58	98.341	
2,400.00	2,332.39	2,307.39	2,307.39	10.64	39.35	102.38	-4,237.70	1,818.09	4,690.47	4,640.57	49.89	94.007	
2,500.00	2,418.11	2,406.89	2,393.11	11.53	41.08	102.65	-4,237.70	1,818.09	4,703.38	4,650.90	52.48	89.622	
2,558.91	2,467.74	2,442.74	2,442.74	12.08	41.71	102.81	-4,237.70	1,818.09	4,711.60	4,657.97	53.63	87.850	
2,600.00	2,502.13	2,477.13	2,477.13	12.47	42.31	103.03	-4,237.70	1,818.09	4,717.54	4,662.94	54.61	86.388	
2,700.00	2,585.83	2,560.83	2,560.83	13.45	43.77	103.58	-4,237.70	1,818.09	4,732.43	4,675.43	57.00	83.029	
2,800.00	2,669.53	2,644.53	2,644.53	14.44	45.23	104.13	-4,237.70	1,818.09	4,747.89	4,688.50	59.40	79.933	
2,900.00	2,753.22	2,728.22	2,728.22	15.46	46.69	104.67	-4,237.70	1,818.09	4,763.94	4,702.13	61.81	77.076	
3,000.00	2,836.92	2,811.92	2,811.92	16.48	48.15	105.21	-4,237.70	1,818.09	4,780.56	4,716.33	64.22	74.436	
3,100.00	2,920.62	2,904.38	2,895.62	17.52	49.77	105.74	-4,237.70	1,818.09	4,797.74	4,730.95	66.80	71.827	
3,200.00	3,004.32	2,979.32	2,979.32	18.56	51.07	106.28	-4,237.70	1,818.09	4,815.49	4,746.43	69.06	69.726	
3,300.00	3,088.01	3,063.01	3,063.01	19.61	52.53	106.81	-4,237.70	1,818.09	4,833.79	4,762.30	71.48	67.621	
3,400.00	3,171.71	3,146.71	3,146.71	20.67	54.00	107.33	-4,237.70	1,818.09	4,852.64	4,778.73	73.90	65.663	
3,500.00	3,255.41	3,230.41	3,230.41	21.73	55.46	107.86	-4,237.70	1,818.09	4,872.03	4,795.71	76.32	63.838	
3,600.00	3,339.10	3,314.10	3,314.10	22.80	56.92	108.38	-4,237.70	1,818.09	4,891.95	4,813.22	78.73	62.135	
3,700.00	3,422.80	3,402.20	3,397.80	23.87	58.45	108.90	-4,237.70	1,818.09	4,912.41	4,831.19	81.22	60.485	
3,800.00	3,506.50	3,481.50	3,481.50	24.94	59.84	109.41	-4,237.70	1,818.09	4,933.38	4,849.84	83.54	59.051	
3,900.00	3,590.20	3,565.20	3,565.20	26.02	61.30	109.92	-4,237.70	1,818.09	4,954.87	4,868.93	85.94	57.652	
4,000.00	3,673.89	3,648.89	3,648.89	27.10	62.76	110.43	-4,237.70	1,818.09	4,976.87	4,888.54	88.34	56.339	
4,100.00	3,757.59	3,732.59	3,732.59	28.18	64.22	110.94	-4,237.70	1,818.09	4,999.38	4,908.65	90.72	55.105	
4,200.00	3,841.29	3,816.29	3,816.29	29.26	65.68	111.44	-4,237.70	1,818.09	5,022.38	4,929.27	93.11	53.942	
4,300.00	3,924.99	3,900.01	3,899.99	30.35	67.14	111.94	-4,237.70	1,818.09	5,045.86	4,950.38	95.48	52.847	
4,400.00	4,008.68	3,983.68	3,983.68	31.44	68.60	112.43	-4,237.70	1,818.09	5,069.83	4,971.98	97.85	51.813	
4,500.00	4,092.38	4,067.38	4,067.38	32.52	70.06	112.92	-4,237.70	1,818.09	5,094.28	4,994.07	100.21	50.836	
4,600.00	4,176.08	4,151.08	4,151.08	33.62	71.52	113.41	-4,237.70	1,818.09	5,119.19	5,016.63	102.56	49.913	
4,700.00	4,259.77	4,234.77	4,234.77	34.71	72.99	113.90	-4,237.70	1,818.09	5,144.56	5,039.66	104.91	49.039	
4,800.00	4,343.47	4,318.47	4,318.47	35.80	74.45	114.38	-4,237.70	1,818.09	5,170.39	5,063.15	107.25	48.210	
4,900.00	4,427.17	4,402.17	4,402.17	36.89	75.91	114.85	-4,237.70	1,818.09	5,196.67	5,087.09	109.58	47.424	
5,000.00	4,510.87	4,485.87	4,485.87	37.99	77.37	115.33	-4,237.70	1,818.09	5,223.39	5,111.49	111.90	46.678	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	4,569.56	4,569.56	39.08	78.83	115.80	-4,237.70	1,818.09	5,250.54	5,136.32	114.22	45.970	
5,200.00	4,678.26	4,653.26	4,653.26	40.18	80.29	116.26	-4,237.70	1,818.09	5,278.12	5,161.60	116.52	45.296	
5,300.00	4,761.96	4,736.96	4,736.96	41.28	81.75	116.73	-4,237.70	1,818.09	5,306.12	5,187.30	118.82	44.655	
5,400.00	4,845.66	4,820.66	4,820.66	42.37	83.21	117.18	-4,237.70	1,818.09	5,334.54	5,213.42	121.12	44.044	
5,500.00	4,929.35	4,904.35	4,904.35	43.47	84.67	117.64	-4,237.70	1,818.09	5,363.36	5,239.96	123.40	43.463	
5,600.00	5,013.05	4,988.05	4,988.05	44.57	86.13	118.09	-4,237.70	1,818.09	5,392.59	5,266.91	125.68	42.908	
5,700.00	5,096.75	5,071.75	5,071.75	45.67	87.59	118.54	-4,237.70	1,818.09	5,422.21	5,294.26	127.95	42.379	
5,800.00	5,180.45	5,155.45	5,155.45	46.77	89.05	118.98	-4,237.70	1,818.09	5,452.21	5,322.01	130.21	41.873	
5,900.00	5,264.14	5,239.14	5,239.14	47.87	90.52	119.42	-4,237.70	1,818.09	5,482.60	5,350.14	132.46	41.390	
6,000.00	5,347.84	5,322.84	5,322.84	48.97	91.98	119.86	-4,237.70	1,818.09	5,513.37	5,378.66	134.71	40.929	
6,100.00	5,431.54	5,406.54	5,406.54	50.07	93.44	120.29	-4,237.70	1,818.09	5,544.50	5,407.56	136.94	40.487	
6,200.00	5,515.23	5,450.00	5,450.00	51.17	94.20	120.51	-4,237.70	1,818.09	5,576.15	5,437.71	138.44	40.278	
6,300.00	5,598.93	5,450.00	5,450.00	52.27	94.20	120.51	-4,237.70	1,818.09	5,609.23	5,470.11	139.12	40.320	
6,400.00	5,682.63	5,450.00	5,450.00	53.38	94.20	120.51	-4,237.70	1,818.09	5,643.88	5,504.13	139.75	40.384	
6,500.00	5,766.33	5,450.00	5,450.00	54.48	94.20	120.51	-4,237.70	1,818.09	5,680.09	5,539.74	140.35	40.470	
6,600.00	5,850.02	5,450.00	5,450.00	55.58	94.20	120.51	-4,237.70	1,818.09	5,717.82	5,576.91	140.91	40.577	
6,700.00	5,933.72	5,450.00	5,450.00	56.68	94.20	120.51	-4,237.70	1,818.09	5,757.04	5,615.60	141.44	40.704	
6,800.00	6,017.42	5,450.00	5,450.00	57.79	94.20	120.51	-4,237.70	1,818.09	5,797.71	5,655.79	141.93	40.850	
6,900.00	6,101.12	5,450.00	5,450.00	58.89	94.20	120.51	-4,237.70	1,818.09	5,839.82	5,697.44	142.38	41.016	
7,000.00	6,184.81	5,450.00	5,450.00	59.99	94.20	120.51	-4,237.70	1,818.09	5,883.32	5,740.52	142.80	41.199	
7,100.00	6,268.51	5,450.00	5,450.00	61.10	94.20	120.51	-4,237.70	1,818.09	5,928.19	5,785.00	143.19	41.401	
7,200.00	6,352.21	5,450.00	5,450.00	62.20	94.20	120.51	-4,237.70	1,818.09	5,974.40	5,830.86	143.55	41.620	
7,300.00	6,435.90	5,450.00	5,450.00	63.31	94.20	120.51	-4,237.70	1,818.09	6,021.92	5,878.04	143.88	41.855	
7,400.00	6,519.60	5,450.00	5,450.00	64.41	94.20	120.51	-4,237.70	1,818.09	6,070.71	5,926.53	144.17	42.107	
7,500.00	6,603.30	5,450.00	5,450.00	65.51	94.20	120.51	-4,237.70	1,818.09	6,120.74	5,976.30	144.45	42.374	
7,600.00	6,687.00	5,450.00	5,450.00	66.62	94.20	120.51	-4,237.70	1,818.09	6,172.00	6,027.30	144.69	42.656	
7,700.00	6,770.69	5,450.00	5,450.00	67.72	94.20	120.51	-4,237.70	1,818.09	6,224.43	6,079.52	144.91	42.954	
7,800.00	6,854.39	5,450.00	5,450.00	68.83	94.20	120.51	-4,237.70	1,818.09	6,278.02	6,132.91	145.11	43.265	
7,900.00	6,938.09	5,450.00	5,450.00	69.93	94.20	120.51	-4,237.70	1,818.09	6,332.74	6,187.46	145.28	43.590	
7,933.18	6,965.86	5,450.00	5,450.00	70.30	94.20	120.51	-4,237.70	1,818.09	6,351.14	6,205.80	145.33	43.701	
7,950.00	6,980.00	5,450.00	5,450.00	70.49	94.20	118.16	-4,237.70	1,818.09	6,360.30	6,214.94	145.36	43.756	
8,000.00	7,022.68	5,450.00	5,450.00	71.01	94.20	110.49	-4,237.70	1,818.09	6,385.25	6,239.82	145.43	43.906	
8,050.00	7,066.06	5,450.00	5,450.00	71.51	94.20	101.97	-4,237.70	1,818.09	6,406.65	6,261.15	145.50	44.032	
8,100.00	7,109.82	5,450.00	5,450.00	71.97	94.20	92.92	-4,237.70	1,818.09	6,424.36	6,278.80	145.56	44.136	
8,150.00	7,153.63	5,450.00	5,450.00	72.38	94.20	83.82	-4,237.70	1,818.09	6,438.29	6,292.69	145.60	44.218	
8,200.00	7,197.14	5,450.00	5,450.00	72.74	94.20	75.16	-4,237.70	1,818.09	6,448.35	6,302.72	145.63	44.278	
8,250.00	7,240.04	5,450.00	5,450.00	73.05	94.20	67.32	-4,237.70	1,818.09	6,454.49	6,308.85	145.64	44.318	
8,300.00	7,281.99	5,450.00	5,450.00	73.31	94.20	60.49	-4,237.70	1,818.09	6,456.67	6,311.04	145.63	44.336	
8,350.00	7,322.67	5,450.00	5,450.00	73.52	94.20	54.70	-4,237.70	1,818.09	6,454.88	6,309.28	145.60	44.334	
8,400.00	7,361.77	5,450.00	5,450.00	73.68	94.20	49.86	-4,237.70	1,818.09	6,449.12	6,303.58	145.54	44.311	
8,450.00	7,399.01	5,450.00	5,450.00	73.78	94.20	45.86	-4,237.70	1,818.09	6,439.44	6,293.97	145.47	44.267	
8,500.00	7,434.08	5,450.00	5,450.00	73.85	94.20	42.57	-4,237.70	1,818.09	6,425.88	6,280.51	145.37	44.203	
8,550.00	7,466.74	5,450.00	5,450.00	73.87	94.20	39.88	-4,237.70	1,818.09	6,408.53	6,263.27	145.26	44.118	
8,600.00	7,496.72	5,450.00	5,450.00	73.85	94.20	37.70	-4,237.70	1,818.09	6,387.49	6,242.36	145.13	44.012	
8,650.00	7,523.80	5,450.00	5,450.00	73.79	94.20	35.95	-4,237.70	1,818.09	6,362.88	6,217.89	144.99	43.885	
8,700.00	7,547.77	5,450.00	5,450.00	73.70	94.20	34.57	-4,237.70	1,818.09	6,334.85	6,190.01	144.84	43.737	
8,750.00	7,568.45	5,450.00	5,450.00	73.58	94.20	33.51	-4,237.70	1,818.09	6,303.57	6,158.89	144.68	43.569	
8,800.00	7,585.69	5,450.00	5,450.00	73.43	94.20	32.76	-4,237.70	1,818.09	6,269.23	6,124.70	144.52	43.379	
8,850.00	7,599.35	5,450.00	5,450.00	73.26	94.20	32.30	-4,237.70	1,818.09	6,232.04	6,087.68	144.36	43.170	
8,900.00	7,609.33	5,450.00	5,450.00	73.07	94.20	32.12	-4,237.70	1,818.09	6,192.23	6,048.03	144.20	42.941	
8,950.00	7,615.55	5,450.00	5,450.00	72.87	94.20	32.25	-4,237.70	1,818.09	6,150.08	6,006.02	144.06	42.692	
9,000.00	7,617.97	5,450.00	5,450.00	72.65	94.20	32.74	-4,237.70	1,818.09	6,105.83	5,961.91	143.92	42.425	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,006.60	7,618.00	5,450.00	5,450.00	72.62	94.20	32.84	-4,237.70	1,818.09	6,099.85	5,955.94	143.91	42.388	
9,100.00	7,618.00	5,450.00	5,450.00	72.22	94.20	32.84	-4,237.70	1,818.09	6,015.14	5,871.48	143.66	41.870	
9,200.00	7,618.00	5,450.00	5,450.00	71.80	94.20	32.84	-4,237.70	1,818.09	5,924.73	5,781.33	143.39	41.318	
9,300.00	7,618.00	5,450.00	5,450.00	71.41	94.20	32.84	-4,237.70	1,818.09	5,834.63	5,691.51	143.12	40.769	
9,400.00	7,618.00	5,450.00	5,450.00	71.04	94.20	32.84	-4,237.70	1,818.09	5,744.85	5,602.03	142.83	40.222	
9,500.00	7,618.00	5,450.00	5,450.00	70.68	94.20	32.84	-4,237.70	1,818.09	5,655.43	5,512.90	142.53	39.679	
9,600.00	7,618.00	5,450.00	5,450.00	70.35	94.20	32.84	-4,237.70	1,818.09	5,566.36	5,424.13	142.22	39.138	
9,700.00	7,618.00	5,450.00	5,450.00	70.04	94.20	32.84	-4,237.70	1,818.09	5,477.66	5,335.76	141.91	38.601	
9,800.00	7,618.00	5,450.00	5,450.00	69.75	94.20	32.84	-4,237.70	1,818.09	5,389.37	5,247.79	141.58	38.067	
9,900.00	7,618.00	5,450.00	5,450.00	69.47	94.20	32.84	-4,237.70	1,818.09	5,301.49	5,160.25	141.24	37.536	
10,000.00	7,618.00	5,450.00	5,450.00	69.22	94.20	32.84	-4,237.70	1,818.09	5,214.05	5,073.16	140.88	37.010	
10,100.00	7,618.00	5,450.00	5,450.00	68.99	94.20	32.84	-4,237.70	1,818.09	5,127.06	4,986.54	140.52	36.487	
10,200.00	7,618.00	5,450.00	5,450.00	68.78	94.20	32.84	-4,237.70	1,818.09	5,040.56	4,900.42	140.14	35.968	
10,300.00	7,618.00	5,450.00	5,450.00	68.59	94.20	32.84	-4,237.70	1,818.09	4,954.57	4,814.82	139.75	35.454	
10,400.00	7,618.00	5,450.00	5,450.00	68.42	94.20	32.84	-4,237.70	1,818.09	4,869.11	4,729.77	139.34	34.944	
10,500.00	7,618.00	5,450.00	5,450.00	68.28	94.20	32.84	-4,237.70	1,818.09	4,784.21	4,645.30	138.92	34.439	
10,600.00	7,618.00	5,450.00	5,450.00	68.16	94.20	32.84	-4,237.70	1,818.09	4,699.91	4,561.43	138.48	33.939	
10,700.00	7,618.00	5,450.00	5,450.00	68.06	94.20	32.84	-4,237.70	1,818.09	4,616.24	4,478.21	138.03	33.444	
10,800.00	7,618.00	5,450.00	5,450.00	67.99	94.20	32.84	-4,237.70	1,818.09	4,533.23	4,395.67	137.56	32.955	
10,900.00	7,618.00	5,450.00	5,450.00	67.95	94.20	32.84	-4,237.70	1,818.09	4,450.92	4,313.85	137.07	32.472	
11,000.00	7,618.00	5,450.00	5,450.00	67.95	94.20	32.84	-4,237.70	1,818.09	4,369.34	4,232.78	136.56	31.995	
11,100.00	7,618.00	5,450.00	5,450.00	67.97	94.20	32.84	-4,237.70	1,818.09	4,288.54	4,152.51	136.04	31.525	
11,200.00	7,618.00	5,450.00	5,450.00	68.04	94.20	32.84	-4,237.70	1,818.09	4,208.58	4,073.08	135.49	31.061	
11,300.00	7,618.00	5,450.00	5,450.00	68.15	94.20	32.84	-4,237.70	1,818.09	4,129.48	3,994.55	134.93	30.605	
11,400.00	7,618.00	5,450.00	5,450.00	68.30	94.20	32.84	-4,237.70	1,818.09	4,051.31	3,916.96	134.34	30.156	
11,500.00	7,618.00	5,450.00	5,450.00	68.50	94.20	32.84	-4,237.70	1,818.09	3,974.11	3,840.37	133.74	29.716	
11,600.00	7,618.00	5,450.00	5,450.00	68.75	94.20	32.84	-4,237.70	1,818.09	3,897.95	3,764.84	133.11	29.284	
11,700.00	7,618.00	5,450.00	5,450.00	69.06	94.20	32.84	-4,237.70	1,818.09	3,822.90	3,690.44	132.46	28.861	
11,800.00	7,618.00	5,450.00	5,450.00	69.44	94.20	32.84	-4,237.70	1,818.09	3,749.00	3,617.21	131.79	28.447	
11,900.00	7,618.00	5,450.00	5,450.00	69.88	94.20	32.84	-4,237.70	1,818.09	3,676.34	3,545.25	131.10	28.043	
12,000.00	7,618.00	5,450.00	5,450.00	70.39	94.20	32.84	-4,237.70	1,818.09	3,605.00	3,474.61	130.38	27.649	
12,100.00	7,618.00	5,450.00	5,450.00	70.97	94.20	32.84	-4,237.70	1,818.09	3,535.04	3,405.39	129.65	27.266	
12,200.00	7,618.00	5,450.00	5,450.00	71.63	94.20	32.84	-4,237.70	1,818.09	3,466.55	3,337.66	128.89	26.895	
12,300.00	7,618.00	5,450.00	5,450.00	72.35	94.20	32.84	-4,237.70	1,818.09	3,399.63	3,271.51	128.12	26.535	
12,400.00	7,618.00	5,450.00	5,450.00	73.15	94.20	32.84	-4,237.70	1,818.09	3,334.36	3,207.03	127.32	26.188	
12,500.00	7,618.00	5,450.00	5,450.00	74.01	94.20	32.84	-4,237.70	1,818.09	3,270.84	3,144.33	126.51	25.853	
12,600.00	7,618.00	5,450.00	5,450.00	74.93	94.20	32.84	-4,237.70	1,818.09	3,209.19	3,083.50	125.69	25.532	
12,700.00	7,618.00	5,450.00	5,450.00	75.91	94.20	32.84	-4,237.70	1,818.09	3,149.51	3,024.65	124.86	25.225	
12,800.00	7,618.00	5,450.00	5,450.00	76.95	94.20	32.84	-4,237.70	1,818.09	3,091.91	2,967.89	124.02	24.931	
12,900.00	7,618.00	5,450.00	5,450.00	78.04	94.20	32.84	-4,237.70	1,818.09	3,036.51	2,913.33	123.17	24.652	
13,000.00	7,618.00	5,450.00	5,450.00	79.16	94.20	32.84	-4,237.70	1,818.09	2,983.43	2,861.10	122.33	24.387	
13,100.00	7,618.00	5,450.00	5,450.00	80.33	94.20	32.84	-4,237.70	1,818.09	2,932.80	2,811.30	121.50	24.137	
13,200.00	7,618.00	5,450.00	5,450.00	81.54	94.20	32.84	-4,237.70	1,818.09	2,884.76	2,764.07	120.69	23.902	
13,300.00	7,618.00	5,450.00	5,450.00	82.78	94.20	32.84	-4,237.70	1,818.09	2,839.42	2,719.52	119.90	23.681	
13,400.00	7,618.00	5,450.00	5,450.00	84.05	94.20	32.84	-4,237.70	1,818.09	2,796.93	2,677.77	119.15	23.474	
13,500.00	7,618.00	5,450.00	5,450.00	85.35	94.20	32.84	-4,237.70	1,818.09	2,757.41	2,638.96	118.45	23.279	
13,600.00	7,618.00	5,450.00	5,450.00	86.67	94.20	32.84	-4,237.70	1,818.09	2,720.99	2,603.18	117.80	23.098	
13,700.00	7,618.00	5,450.00	5,450.00	88.02	94.20	32.84	-4,237.70	1,818.09	2,687.80	2,570.57	117.23	22.927	
13,800.00	7,618.00	5,450.00	5,450.00	89.38	94.20	32.84	-4,237.70	1,818.09	2,657.96	2,541.21	116.75	22.767	
13,900.00	7,618.00	5,450.00	5,450.00	90.77	94.20	32.84	-4,237.70	1,818.09	2,631.58	2,515.22	116.37	22.614	
14,000.00	7,618.00	5,450.00	5,450.00	92.17	94.20	32.84	-4,237.70	1,818.09	2,608.78	2,492.67	116.11	22.469	
14,100.00	7,618.00	5,450.00	5,450.00	93.59	94.20	32.84	-4,237.70	1,818.09	2,589.63	2,473.66	115.97	22.329	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,618.00	5,450.00	5,450.00	95.02	94.20	32.84	-4,237.70	1,818.09	2,574.24	2,458.25	115.99	22.194	
14,300.00	7,618.00	5,450.00	5,450.00	96.47	94.20	32.84	-4,237.70	1,818.09	2,562.65	2,446.49	116.16	22.062	
14,400.00	7,618.00	5,450.00	5,450.00	97.93	94.20	32.84	-4,237.70	1,818.09	2,554.93	2,438.44	116.49	21.933	
14,500.00	7,618.00	5,450.00	5,450.00	99.41	94.20	32.84	-4,237.70	1,818.09	2,551.11	2,434.12	116.99	21.807	
14,547.57	7,618.00	5,450.00	5,450.00	100.11	94.20	32.84	-4,237.70	1,818.09	2,550.66	2,433.38	117.28	21.748	CC, ES
14,600.00	7,618.00	5,450.00	5,450.00	100.89	94.20	32.84	-4,237.70	1,818.09	2,551.20	2,433.55	117.65	21.685	
14,700.00	7,618.00	5,450.00	5,450.00	102.38	94.20	32.84	-4,237.70	1,818.09	2,555.21	2,436.74	118.47	21.568	
14,800.00	7,618.00	5,450.00	5,450.00	103.89	94.20	32.84	-4,237.70	1,818.09	2,563.12	2,443.68	119.44	21.459	
14,900.00	7,618.00	5,450.00	5,450.00	105.40	94.20	32.84	-4,237.70	1,818.09	2,574.90	2,454.35	120.55	21.360	
15,000.00	7,618.00	5,450.00	5,450.00	106.92	94.20	32.84	-4,237.70	1,818.09	2,590.48	2,468.71	121.77	21.273	
15,100.00	7,618.00	5,450.00	5,450.00	108.45	94.20	32.84	-4,237.70	1,818.09	2,609.80	2,486.71	123.10	21.201	
15,200.00	7,618.00	5,450.00	5,450.00	109.99	94.20	32.84	-4,237.70	1,818.09	2,632.78	2,508.29	124.50	21.147	
15,300.00	7,618.00	5,450.00	5,450.00	111.54	94.20	32.84	-4,237.70	1,818.09	2,659.33	2,533.37	125.96	21.113	
15,400.00	7,618.00	5,450.00	5,450.00	113.09	94.20	32.84	-4,237.70	1,818.09	2,689.34	2,561.88	127.45	21.101	SF
15,500.00	7,618.00	5,450.00	5,450.00	114.65	94.20	32.84	-4,237.70	1,818.09	2,722.68	2,593.72	128.97	21.111	
15,600.00	7,618.00	5,450.00	5,450.00	116.21	94.20	32.84	-4,237.70	1,818.09	2,759.26	2,628.77	130.49	21.146	
15,700.00	7,618.00	5,450.00	5,450.00	117.78	94.20	32.84	-4,237.70	1,818.09	2,798.93	2,666.93	131.99	21.205	
15,800.00	7,618.00	5,450.00	5,450.00	119.36	94.20	32.84	-4,237.70	1,818.09	2,841.56	2,708.09	133.47	21.290	
15,900.00	7,618.00	5,450.00	5,450.00	120.94	94.20	32.84	-4,237.70	1,818.09	2,887.03	2,752.12	134.92	21.399	
16,000.00	7,618.00	5,450.00	5,450.00	122.53	94.20	32.84	-4,237.70	1,818.09	2,935.21	2,798.89	136.32	21.532	
16,100.00	7,618.00	5,450.00	5,450.00	124.12	94.20	32.84	-4,237.70	1,818.09	2,985.96	2,848.29	137.67	21.689	
16,200.00	7,618.00	5,450.00	5,450.00	125.72	94.20	32.84	-4,237.70	1,818.09	3,039.15	2,900.18	138.97	21.869	
16,300.00	7,618.00	5,450.00	5,450.00	127.32	94.20	32.84	-4,237.70	1,818.09	3,094.66	2,954.45	140.21	22.072	
16,400.00	7,618.00	5,450.00	5,450.00	128.93	94.20	32.84	-4,237.70	1,818.09	3,152.36	3,010.97	141.39	22.295	
16,500.00	7,618.00	5,450.00	5,450.00	130.54	94.20	32.84	-4,237.70	1,818.09	3,212.14	3,069.63	142.51	22.539	
16,600.00	7,618.00	5,450.00	5,450.00	132.15	94.20	32.84	-4,237.70	1,818.09	3,273.89	3,130.31	143.58	22.802	
16,700.00	7,618.00	5,450.00	5,450.00	133.77	94.20	32.84	-4,237.70	1,818.09	3,337.49	3,192.91	144.58	23.083	
16,800.00	7,618.00	5,450.00	5,450.00	135.39	94.20	32.84	-4,237.70	1,818.09	3,402.84	3,257.31	145.53	23.382	
16,900.00	7,618.00	5,450.00	5,450.00	137.01	94.20	32.84	-4,237.70	1,818.09	3,469.84	3,323.42	146.43	23.697	
17,000.00	7,618.00	5,450.00	5,450.00	138.64	94.20	32.84	-4,237.70	1,818.09	3,538.40	3,391.13	147.27	24.027	
17,100.00	7,618.00	5,450.00	5,450.00	140.27	94.20	32.84	-4,237.70	1,818.09	3,608.43	3,460.37	148.06	24.371	
17,200.00	7,618.00	5,450.00	5,450.00	141.91	94.20	32.84	-4,237.70	1,818.09	3,679.85	3,531.04	148.81	24.729	
17,300.00	7,618.00	5,450.00	5,450.00	143.55	94.20	32.84	-4,237.70	1,818.09	3,752.57	3,603.06	149.50	25.100	
17,400.00	7,618.00	5,450.00	5,450.00	145.19	94.20	32.84	-4,237.70	1,818.09	3,826.52	3,676.36	150.16	25.483	
17,500.00	7,618.00	5,450.00	5,450.00	146.83	94.20	32.84	-4,237.70	1,818.09	3,901.63	3,750.86	150.77	25.877	
17,600.00	7,618.00	5,450.00	5,450.00	148.48	94.20	32.84	-4,237.70	1,818.09	3,977.84	3,826.49	151.35	26.282	
17,700.00	7,618.00	5,450.00	5,450.00	150.13	94.20	32.84	-4,237.70	1,818.09	4,055.08	3,903.19	151.89	26.697	
17,800.00	7,618.00	5,450.00	5,450.00	151.78	94.20	32.84	-4,237.70	1,818.09	4,133.30	3,980.90	152.40	27.121	
17,900.00	7,618.00	5,450.00	5,450.00	153.43	94.20	32.84	-4,237.70	1,818.09	4,212.44	4,059.57	152.88	27.554	
18,000.00	7,618.00	5,450.00	5,450.00	155.09	94.20	32.84	-4,237.70	1,818.09	4,292.45	4,139.13	153.33	27.996	
18,100.00	7,618.00	5,450.00	5,450.00	156.75	94.20	32.84	-4,237.70	1,818.09	4,373.29	4,219.54	153.75	28.445	
18,200.00	7,618.00	5,450.00	5,450.00	158.41	94.20	32.84	-4,237.70	1,818.09	4,454.90	4,300.76	154.14	28.901	
18,300.00	7,618.00	5,450.00	5,450.00	160.07	94.20	32.84	-4,237.70	1,818.09	4,537.25	4,382.74	154.51	29.365	
18,400.00	7,618.00	5,450.00	5,450.00	161.74	94.20	32.84	-4,237.70	1,818.09	4,620.29	4,465.43	154.86	29.835	
18,500.00	7,618.00	5,450.00	5,450.00	163.41	94.20	32.84	-4,237.70	1,818.09	4,704.00	4,548.81	155.19	30.311	
18,600.00	7,618.00	5,450.00	5,450.00	165.08	94.20	32.84	-4,237.70	1,818.09	4,788.33	4,632.82	155.50	30.792	
18,700.00	7,618.00	5,450.00	5,450.00	166.75	94.20	32.84	-4,237.70	1,818.09	4,873.25	4,717.46	155.80	31.280	
18,711.30	7,618.00	5,450.00	5,450.00	166.94	94.20	32.84	-4,237.70	1,818.09	4,882.88	4,727.06	155.83	31.335	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	154.84	-4,569.18	2,145.77	5,047.95				
100.00	100.00	71.27	71.27	0.13	0.11	154.85	-4,569.39	2,145.66	5,048.13	5,047.88	0.25	N/A	
200.00	200.00	166.37	166.37	0.49	0.40	154.85	-4,570.15	2,145.22	5,048.66	5,047.76	0.89	5,665.430	
300.00	300.00	285.72	285.71	0.85	0.83	154.86	-4,570.86	2,144.71	5,049.02	5,047.34	1.68	3,010.431	
400.00	400.00	381.15	381.14	1.21	1.17	154.87	-4,571.06	2,144.59	5,049.15	5,046.78	2.38	2,125.349	
500.00	500.00	482.93	482.92	1.57	1.53	154.87	-4,571.30	2,144.59	5,049.37	5,046.27	3.10	1,630.552	
600.00	600.00	612.94	612.93	1.93	1.99	154.87	-4,571.54	2,143.95	5,049.34	5,045.43	3.92	1,289.574	
700.00	700.00	779.58	779.55	2.29	2.56	154.89	-4,570.15	2,141.97	5,047.97	5,043.12	4.85	1,040.992	
800.00	800.00	874.23	874.19	2.64	2.89	154.89	-4,568.84	2,140.90	5,046.24	5,040.71	5.53	911.814	
900.00	900.00	974.71	974.65	3.00	3.24	154.90	-4,567.52	2,139.94	5,044.64	5,038.40	6.24	808.236	
1,000.00	999.98	1,111.30	1,111.22	3.36	3.72	97.77	-4,565.23	2,138.56	5,042.95	5,035.88	7.07	713.062	
1,100.00	1,099.84	1,181.26	1,181.16	3.71	3.96	97.84	-4,564.04	2,137.82	5,041.65	5,033.98	7.67	657.151	
1,200.00	1,199.45	1,273.63	1,273.51	4.07	4.29	97.94	-4,562.75	2,136.98	5,041.19	5,032.83	8.36	603.291	
1,234.18	1,233.42	1,307.07	1,306.95	4.20	4.41	97.99	-4,562.26	2,136.74	5,041.16	5,032.56	8.60	586.215	
1,300.00	1,298.70	1,361.78	1,361.66	4.44	4.60	98.06	-4,561.56	2,136.29	5,041.34	5,032.31	9.04	557.892	
1,400.00	1,397.47	1,444.10	1,443.97	4.82	4.89	98.19	-4,560.80	2,135.49	5,042.31	5,032.60	9.71	519.198	
1,500.00	1,495.62	1,527.79	1,527.65	5.22	5.19	98.34	-4,560.29	2,134.78	5,044.18	5,033.77	10.41	484.430	
1,600.00	1,593.06	1,621.79	1,621.66	5.65	5.52	98.53	-4,559.86	2,134.04	5,046.81	5,035.63	11.18	451.580	
1,700.00	1,689.64	1,719.95	1,719.81	6.11	5.88	98.76	-4,559.40	2,133.16	5,050.02	5,038.03	11.99	421.358	
1,800.00	1,785.27	1,795.87	1,795.72	6.61	6.15	98.93	-4,559.22	2,132.51	5,054.13	5,041.38	12.75	396.373	
1,900.00	1,879.82	1,890.31	1,890.16	7.15	6.48	99.19	-4,559.25	2,131.60	5,059.17	5,045.55	13.62	371.338	
2,000.00	1,973.17	1,983.03	1,982.87	7.73	6.81	99.45	-4,559.34	2,130.52	5,065.00	5,050.46	14.54	348.420	
2,100.00	2,065.21	2,093.65	2,093.48	8.37	7.21	99.82	-4,559.31	2,129.14	5,071.54	5,055.98	15.56	325.838	
2,200.00	2,155.84	2,182.72	2,182.55	9.07	7.53	100.11	-4,559.12	2,127.93	5,078.81	5,062.24	16.57	306.537	
2,300.00	2,244.94	2,278.93	2,278.75	9.82	7.87	100.44	-4,558.83	2,126.74	5,087.04	5,069.39	17.65	288.153	
2,400.00	2,332.39	2,364.37	2,364.18	10.64	8.18	100.73	-4,558.53	2,125.54	5,096.25	5,077.49	18.76	271.672	
2,500.00	2,418.11	2,454.02	2,453.82	11.53	8.50	101.05	-4,558.21	2,124.39	5,106.62	5,086.68	19.94	256.122	
2,558.91	2,467.74	2,510.25	2,510.05	12.08	8.70	101.26	-4,557.88	2,123.80	5,113.21	5,092.54	20.67	247.343	
2,600.00	2,502.13	2,546.51	2,546.30	12.47	8.83	101.48	-4,557.62	2,123.44	5,117.99	5,096.80	21.18	241.614	
2,700.00	2,585.83	2,646.88	2,646.67	13.45	9.19	102.09	-4,556.81	2,122.35	5,129.89	5,107.40	22.48	228.176	
2,800.00	2,669.53	2,738.39	2,738.16	14.44	9.52	102.65	-4,555.77	2,121.07	5,142.01	5,118.24	23.76	216.380	
2,900.00	2,753.22	2,810.07	2,809.83	15.46	9.78	103.09	-4,555.11	2,119.95	5,154.82	5,129.83	24.98	206.325	
3,000.00	2,836.92	2,889.31	2,889.05	16.48	10.06	103.57	-4,554.60	2,118.38	5,168.31	5,142.07	26.24	196.973	
3,100.00	2,920.62	2,966.11	2,965.83	17.52	10.34	104.04	-4,554.26	2,116.57	5,182.44	5,154.96	27.49	188.529	
3,200.00	3,004.32	3,040.39	3,040.08	18.56	10.60	104.50	-4,554.03	2,114.85	5,197.26	5,168.53	28.73	180.889	
3,300.00	3,088.01	3,118.19	3,117.87	19.61	10.88	104.97	-4,553.92	2,113.14	5,212.79	5,182.80	29.99	173.827	
3,400.00	3,171.71	3,220.30	3,219.95	20.67	11.25	105.59	-4,553.59	2,110.81	5,228.72	5,197.39	31.33	166.870	
3,500.00	3,255.41	3,290.37	3,290.01	21.73	11.50	106.01	-4,553.33	2,109.37	5,245.21	5,212.65	32.56	161.092	
3,600.00	3,339.10	3,369.25	3,368.87	22.80	11.78	106.49	-4,553.10	2,107.82	5,262.33	5,228.51	33.82	155.615	
3,700.00	3,422.80	3,443.37	3,442.97	23.87	12.05	106.93	-4,552.98	2,106.24	5,280.06	5,245.01	35.05	150.640	
3,800.00	3,506.50	3,517.78	3,517.37	24.94	12.32	107.37	-4,553.00	2,104.75	5,298.50	5,262.22	36.28	146.035	
3,900.00	3,590.20	3,606.02	3,605.60	26.02	12.63	107.89	-4,552.99	2,103.14	5,317.47	5,279.91	37.56	141.567	
4,000.00	3,673.89	3,682.18	3,681.74	27.10	12.91	108.34	-4,552.99	2,101.73	5,336.98	5,298.19	38.79	137.586	
4,100.00	3,757.59	3,772.73	3,772.27	28.18	13.23	108.87	-4,553.04	2,099.93	5,357.01	5,316.95	40.07	133.699	
4,200.00	3,841.29	3,856.27	3,855.80	29.26	13.53	109.36	-4,552.96	2,098.30	5,377.44	5,336.13	41.31	130.162	
4,300.00	3,924.99	3,934.52	3,934.03	30.35	13.81	109.81	-4,552.91	2,096.86	5,398.43	5,355.89	42.53	126.924	
4,400.00	4,008.68	4,017.07	4,016.57	31.44	14.11	110.28	-4,552.93	2,095.41	5,419.98	5,376.22	43.76	123.850	
4,500.00	4,092.38	4,127.19	4,126.68	32.52	14.51	110.91	-4,552.60	2,093.66	5,441.77	5,396.68	45.09	120.684	
4,600.00	4,176.08	4,230.75	4,230.23	33.62	14.87	111.48	-4,551.74	2,092.63	5,463.69	5,417.30	46.39	117.787	
4,700.00	4,259.77	4,321.64	4,321.11	34.71	15.19	111.98	-4,550.63	2,092.27	5,485.81	5,438.18	47.62	115.191	
4,800.00	4,343.47	4,388.88	4,388.35	35.80	15.43	112.35	-4,549.88	2,092.20	5,508.50	5,459.74	48.76	112.964	
4,900.00	4,427.17	4,460.40	4,459.86	36.89	15.68	112.73	-4,549.29	2,092.14	5,531.86	5,481.95	49.91	110.831	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,510.87	4,537.32	4,536.78	37.99	15.95	113.15	-4,548.81	2,091.93	5,555.82	5,504.74	51.08	108.773	
5,100.00	4,594.56	4,630.42	4,629.88	39.08	16.28	113.65	-4,548.29	2,091.25	5,580.23	5,527.94	52.30	106.698	
5,200.00	4,678.26	4,761.86	4,761.30	40.18	16.75	114.36	-4,546.90	2,089.24	5,604.62	5,550.95	53.66	104.442	
5,300.00	4,761.96	4,867.75	4,867.15	41.28	17.13	114.93	-4,545.06	2,087.33	5,628.83	5,573.91	54.92	102.495	
5,400.00	4,845.66	4,951.74	4,951.11	42.37	17.43	115.38	-4,543.46	2,085.82	5,653.34	5,597.26	56.08	100.804	
5,500.00	4,929.35	5,026.63	5,025.98	43.47	17.70	115.78	-4,542.08	2,084.46	5,678.35	5,621.15	57.20	99.263	
5,600.00	5,013.05	5,095.22	5,094.55	44.57	17.94	116.14	-4,540.98	2,083.15	5,703.98	5,645.68	58.29	97.847	
5,700.00	5,096.75	5,167.53	5,166.83	45.67	18.20	116.52	-4,539.99	2,081.65	5,730.21	5,670.82	59.39	96.483	
5,800.00	5,180.45	5,246.07	5,245.34	46.77	18.49	116.93	-4,539.05	2,079.90	5,756.99	5,696.49	60.50	95.152	
5,900.00	5,264.14	5,335.86	5,335.11	47.87	18.81	117.40	-4,537.95	2,077.94	5,784.18	5,722.53	61.65	93.820	
6,000.00	5,347.84	5,430.87	5,430.09	48.97	19.15	117.89	-4,536.59	2,075.82	5,811.59	5,748.77	62.81	92.521	
6,100.00	5,431.54	5,513.15	5,512.33	50.07	19.45	118.32	-4,535.34	2,073.90	5,839.33	5,775.41	63.92	91.358	
6,200.00	5,515.23	5,586.47	5,585.63	51.17	19.71	118.69	-4,534.30	2,072.41	5,867.56	5,802.58	64.98	90.301	
6,300.00	5,598.93	5,664.51	5,663.66	52.27	19.99	119.08	-4,533.30	2,071.09	5,896.28	5,830.23	66.05	89.271	
6,400.00	5,682.63	5,735.22	5,734.35	53.38	20.24	119.43	-4,532.46	2,069.97	5,925.48	5,858.39	67.08	88.329	
6,500.00	5,766.33	5,800.00	5,799.12	54.48	20.48	119.75	-4,531.91	2,069.19	5,955.29	5,887.20	68.09	87.466	
6,600.00	5,850.02	5,890.54	5,889.65	55.58	20.80	120.19	-4,531.22	2,068.22	5,985.55	5,916.36	69.19	86.511	
6,700.00	5,933.72	6,065.39	6,064.47	56.68	21.43	121.04	-4,528.54	2,065.96	6,015.58	5,944.96	70.62	85.182	
6,800.00	6,017.42	6,149.71	6,148.76	57.79	21.73	121.44	-4,526.41	2,065.24	6,045.06	5,973.38	71.68	84.333	
6,900.00	6,101.12	6,208.61	6,207.63	58.89	21.93	121.72	-4,525.12	2,064.03	6,075.21	6,002.58	72.63	83.647	
7,000.00	6,184.81	6,269.48	6,268.47	59.99	22.15	122.01	-4,524.01	2,062.64	6,106.02	6,032.45	73.58	82.987	
7,100.00	6,268.51	6,323.72	6,322.70	61.10	22.35	122.27	-4,523.23	2,061.55	6,137.51	6,063.02	74.49	82.392	
7,200.00	6,352.21	6,370.89	6,369.86	62.20	22.52	122.50	-4,522.81	2,060.40	6,169.80	6,094.44	75.37	81.866	
7,300.00	6,435.90	6,556.12	6,555.02	63.31	23.18	123.36	-4,519.92	2,057.43	6,201.62	6,124.82	76.80	80.747	
7,400.00	6,519.60	6,742.14	6,740.97	64.41	23.83	124.18	-4,514.98	2,057.85	6,233.10	6,154.88	78.22	79.682	
7,500.00	6,603.30	6,800.00	6,798.79	65.51	24.03	124.43	-4,512.84	2,058.30	6,263.84	6,184.71	79.13	79.157	
7,600.00	6,687.00	6,849.13	6,847.89	66.62	24.20	124.64	-4,511.27	2,058.72	6,295.31	6,215.32	79.99	78.698	
7,700.00	6,770.69	6,900.00	6,898.75	67.72	24.37	124.85	-4,510.25	2,059.18	6,327.85	6,247.00	80.85	78.264	
7,800.00	6,854.39	6,978.92	6,977.65	68.83	24.65	125.19	-4,508.82	2,059.08	6,361.03	6,279.21	81.82	77.744	
7,900.00	6,938.09	7,060.46	7,059.17	69.93	24.93	125.55	-4,506.97	2,058.18	6,394.22	6,311.43	82.79	77.235	
7,933.18	6,965.86	7,083.96	7,082.66	70.30	25.01	125.65	-4,506.51	2,058.21	6,405.34	6,322.24	83.10	77.084	
7,950.00	6,980.00	7,095.97	7,094.67	70.49	25.06	123.31	-4,506.29	2,058.29	6,410.76	6,327.50	83.25	77.005	
8,000.00	7,022.68	7,124.14	7,122.84	71.01	25.15	115.69	-4,505.80	2,058.50	6,424.21	6,340.52	83.69	76.762	
8,050.00	7,066.06	7,151.60	7,150.30	71.51	25.25	107.24	-4,505.38	2,058.63	6,433.63	6,349.50	84.13	76.473	
8,100.00	7,109.82	7,179.16	7,177.85	71.97	25.35	98.30	-4,505.03	2,058.68	6,438.96	6,354.39	84.57	76.137	
8,150.00	7,153.63	7,208.27	7,206.96	72.38	25.45	89.35	-4,504.71	2,058.63	6,440.17	6,355.16	85.01	75.755	
8,200.00	7,197.14	7,242.20	7,240.88	72.74	25.57	80.90	-4,504.38	2,058.45	6,437.23	6,351.76	85.47	75.316	
8,250.00	7,240.04	7,275.47	7,274.15	73.05	25.69	73.33	-4,504.09	2,058.15	6,430.14	6,344.23	85.91	74.848	
8,300.00	7,281.99	7,314.78	7,313.46	73.31	25.83	66.85	-4,503.78	2,057.63	6,418.96	6,332.60	86.36	74.329	
8,350.00	7,322.67	7,373.70	7,372.37	73.52	26.04	61.58	-4,503.20	2,056.84	6,403.65	6,316.77	86.88	73.708	
8,400.00	7,361.77	7,422.16	7,420.82	73.68	26.21	57.30	-4,502.61	2,056.20	6,384.29	6,296.96	87.33	73.102	
8,450.00	7,399.01	7,461.42	7,460.07	73.78	26.35	53.93	-4,502.08	2,055.56	6,361.11	6,273.38	87.73	72.509	
8,500.00	7,434.08	7,498.14	7,496.79	73.85	26.49	51.39	-4,501.55	2,054.86	6,334.29	6,246.20	88.09	71.904	
8,550.00	7,466.74	7,516.88	7,515.52	73.87	26.55	49.50	-4,501.29	2,054.49	6,304.07	6,215.71	88.36	71.345	
8,600.00	7,496.72	7,533.39	7,532.03	73.85	26.61	48.29	-4,501.11	2,054.22	6,270.71	6,182.11	88.60	70.777	
8,650.00	7,523.80	7,548.42	7,547.06	73.79	26.67	47.77	-4,500.99	2,054.02	6,234.43	6,145.62	88.81	70.198	
8,700.00	7,547.77	7,561.84	7,560.47	73.70	26.71	47.97	-4,500.90	2,053.87	6,195.48	6,106.48	89.00	69.611	
8,750.00	7,568.45	7,573.51	7,572.14	73.58	26.76	49.00	-4,500.85	2,053.77	6,154.12	6,064.96	89.17	69.018	
8,800.00	7,585.69	7,583.32	7,581.95	73.43	26.79	51.09	-4,500.83	2,053.71	6,110.66	6,021.35	89.31	68.421	
8,850.00	7,599.35	7,600.00	7,598.63	73.26	26.85	54.83	-4,500.82	2,053.64	6,065.40	5,975.92	89.47	67.791	
8,900.00	7,609.33	7,600.00	7,598.63	73.07	26.85	60.61	-4,500.82	2,053.64	6,018.63	5,929.08	89.55	67.212	
8,950.00	7,615.55	7,602.53	7,601.16	72.87	26.86	70.36	-4,500.82	2,053.63	5,970.71	5,881.09	89.62	66.620	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	7,608.63	7,607.26	72.65	26.88	87.02	-4,500.82	2,053.62	5,922.00	5,832.29	89.71	66.012	
9,006.60	7,618.00	7,608.71	7,607.34	72.62	26.88	89.87	-4,500.82	2,053.61	5,915.52	5,825.80	89.72	65.933	
9,100.00	7,618.00	7,608.68	7,607.31	72.22	26.88	89.87	-4,500.82	2,053.62	5,823.93	5,734.10	89.82	64.837	
9,200.00	7,618.00	7,608.65	7,607.28	71.80	26.88	89.86	-4,500.82	2,053.62	5,725.92	5,635.98	89.94	63.664	
9,300.00	7,618.00	7,608.62	7,607.25	71.41	26.88	89.86	-4,500.82	2,053.62	5,627.98	5,537.92	90.06	62.490	
9,400.00	7,618.00	7,608.59	7,607.23	71.04	26.88	89.86	-4,500.82	2,053.62	5,530.12	5,439.93	90.19	61.317	
9,500.00	7,618.00	7,608.57	7,607.20	70.68	26.88	89.86	-4,500.82	2,053.62	5,432.33	5,342.01	90.32	60.144	
9,600.00	7,618.00	7,608.54	7,607.18	70.35	26.88	89.86	-4,500.82	2,053.62	5,334.63	5,244.16	90.46	58.971	
9,700.00	7,618.00	7,608.52	7,607.15	70.04	26.88	89.86	-4,500.82	2,053.62	5,237.01	5,146.40	90.61	57.799	
9,800.00	7,618.00	7,608.50	7,607.13	69.75	26.88	89.86	-4,500.82	2,053.62	5,139.48	5,048.72	90.76	56.627	
9,900.00	7,618.00	7,608.48	7,607.11	69.47	26.88	89.86	-4,500.82	2,053.62	5,042.05	4,951.13	90.92	55.455	
10,000.00	7,618.00	7,608.46	7,607.09	69.22	26.88	89.85	-4,500.82	2,053.62	4,944.73	4,853.64	91.09	54.284	
10,100.00	7,618.00	7,608.44	7,607.07	68.99	26.88	89.85	-4,500.82	2,053.62	4,847.51	4,756.24	91.27	53.114	
10,200.00	7,618.00	7,608.42	7,607.05	68.78	26.88	89.85	-4,500.82	2,053.62	4,750.41	4,658.96	91.45	51.944	
10,300.00	7,618.00	7,608.40	7,607.03	68.59	26.88	89.85	-4,500.82	2,053.62	4,653.43	4,561.78	91.65	50.776	
10,400.00	7,618.00	7,608.38	7,607.02	68.42	26.88	89.85	-4,500.82	2,053.62	4,556.58	4,464.73	91.85	49.608	
10,500.00	7,618.00	7,608.37	7,607.00	68.28	26.88	89.85	-4,500.82	2,053.62	4,459.87	4,367.80	92.07	48.442	
10,600.00	7,618.00	7,608.35	7,606.98	68.16	26.88	89.85	-4,500.82	2,053.62	4,363.31	4,271.01	92.29	47.277	
10,700.00	7,618.00	7,608.34	7,606.97	68.06	26.88	89.85	-4,500.82	2,053.62	4,266.90	4,174.37	92.53	46.113	
10,800.00	7,618.00	7,608.32	7,606.95	67.99	26.88	89.85	-4,500.82	2,053.62	4,170.67	4,077.89	92.78	44.951	
10,900.00	7,618.00	7,608.31	7,606.94	67.95	26.88	89.85	-4,500.82	2,053.62	4,074.62	3,981.57	93.05	43.790	
11,000.00	7,618.00	7,608.29	7,606.92	67.95	26.88	89.85	-4,500.82	2,053.62	3,978.76	3,885.43	93.33	42.631	
11,100.00	7,618.00	7,608.28	7,606.91	67.97	26.88	89.85	-4,500.82	2,053.62	3,883.11	3,789.49	93.63	41.475	
11,200.00	7,618.00	7,608.27	7,606.90	68.04	26.88	89.85	-4,500.82	2,053.62	3,787.69	3,693.75	93.94	40.321	
11,300.00	7,618.00	7,608.26	7,606.89	68.15	26.88	89.84	-4,500.82	2,053.62	3,692.51	3,598.24	94.27	39.169	
11,400.00	7,618.00	7,608.24	7,606.87	68.30	26.88	89.84	-4,500.82	2,053.62	3,597.59	3,502.96	94.62	38.020	
11,500.00	7,618.00	7,608.23	7,606.86	68.50	26.88	89.84	-4,500.82	2,053.62	3,502.95	3,407.95	95.00	36.875	
11,600.00	7,618.00	7,608.22	7,606.85	68.75	26.88	89.84	-4,500.82	2,053.62	3,408.62	3,313.23	95.39	35.733	
11,700.00	7,618.00	7,608.21	7,606.84	69.06	26.88	89.84	-4,500.82	2,053.62	3,314.62	3,218.81	95.81	34.595	
11,800.00	7,618.00	7,608.20	7,606.83	69.44	26.88	89.84	-4,500.82	2,053.62	3,220.98	3,124.72	96.26	33.461	
11,900.00	7,618.00	7,608.19	7,606.82	69.88	26.88	89.84	-4,500.82	2,053.62	3,127.74	3,031.00	96.74	32.332	
12,000.00	7,618.00	7,608.18	7,606.81	70.39	26.88	89.84	-4,500.82	2,053.62	3,034.92	2,937.68	97.25	31.208	
12,100.00	7,618.00	7,608.17	7,606.80	70.97	26.88	89.84	-4,500.82	2,053.62	2,942.58	2,844.79	97.79	30.091	
12,200.00	7,618.00	7,608.16	7,606.79	71.63	26.88	89.84	-4,500.82	2,053.62	2,850.76	2,752.38	98.37	28.980	
12,300.00	7,618.00	7,608.15	7,606.78	72.35	26.88	89.84	-4,500.82	2,053.62	2,759.50	2,660.51	98.99	27.876	
12,400.00	7,618.00	7,608.14	7,606.77	73.15	26.88	89.84	-4,500.82	2,053.62	2,668.87	2,569.21	99.66	26.781	
12,500.00	7,618.00	7,608.13	7,606.77	74.01	26.88	89.84	-4,500.82	2,053.62	2,578.93	2,478.56	100.37	25.695	
12,600.00	7,618.00	7,608.13	7,606.76	74.93	26.88	89.84	-4,500.82	2,053.62	2,489.76	2,388.63	101.13	24.619	
12,700.00	7,618.00	7,608.12	7,606.75	75.91	26.88	89.84	-4,500.82	2,053.62	2,401.44	2,299.49	101.95	23.555	
12,800.00	7,618.00	7,608.11	7,606.74	76.95	26.88	89.84	-4,500.82	2,053.62	2,314.07	2,211.25	102.83	22.504	
12,900.00	7,618.00	7,608.10	7,606.73	78.04	26.88	89.84	-4,500.82	2,053.62	2,227.77	2,124.00	103.77	21.468	
13,000.00	7,618.00	7,608.10	7,606.73	79.16	26.88	89.84	-4,500.82	2,053.62	2,142.66	2,037.88	104.78	20.449	
13,100.00	7,618.00	7,608.09	7,606.72	80.33	26.88	89.84	-4,500.82	2,053.62	2,058.88	1,953.02	105.87	19.448	
13,200.00	7,618.00	7,608.08	7,606.71	81.54	26.88	89.84	-4,500.82	2,053.62	1,976.62	1,869.59	107.03	18.469	
13,300.00	7,618.00	7,608.07	7,606.70	82.78	26.88	89.84	-4,500.82	2,053.62	1,896.06	1,787.80	108.27	17.513	
13,400.00	7,618.00	7,608.07	7,606.70	84.05	26.88	89.84	-4,500.82	2,053.62	1,817.43	1,707.85	109.58	16.585	
13,500.00	7,618.00	7,608.06	7,606.69	85.35	26.88	89.83	-4,500.82	2,053.62	1,741.00	1,630.02	110.98	15.687	
13,600.00	7,618.00	7,608.05	7,606.69	86.67	26.88	89.83	-4,500.82	2,053.62	1,667.07	1,554.61	112.46	14.824	
13,700.00	7,618.00	7,608.05	7,606.68	88.02	26.88	89.83	-4,500.82	2,053.62	1,595.97	1,481.98	113.99	14.000	
13,800.00	7,618.00	7,608.04	7,606.67	89.38	26.88	89.83	-4,500.82	2,053.62	1,528.12	1,412.54	115.58	13.221	
13,900.00	7,618.00	7,608.08	7,606.71	90.77	26.88	89.84	-4,500.83	2,053.62	1,463.96	1,346.76	117.20	12.491	
14,000.00	7,618.00	7,608.31	7,606.94	92.17	26.88	89.85	-4,500.83	2,053.62	1,403.99	1,285.18	118.81	11.817	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,618.00	7,608.54	7,607.17	93.59	26.88	89.86	-4,500.83	2,053.62	1,348.78	1,228.41	120.38	11.205	
14,200.00	7,618.00	7,608.79	7,607.42	95.02	26.88	89.87	-4,500.83	2,053.62	1,298.94	1,177.11	121.83	10.662	
14,300.00	7,618.00	7,609.04	7,607.67	96.47	26.88	89.88	-4,500.83	2,053.62	1,255.09	1,131.99	123.11	10.195	
14,400.00	7,618.00	7,609.30	7,607.93	97.93	26.88	89.90	-4,500.83	2,053.62	1,217.90	1,093.77	124.13	9.812	
14,500.00	7,618.00	7,609.57	7,608.20	99.41	26.88	89.91	-4,500.83	2,053.62	1,187.98	1,063.17	124.81	9.518	
14,600.00	7,618.00	7,609.86	7,608.49	100.89	26.88	89.92	-4,500.83	2,053.62	1,165.90	1,040.82	125.08	9.321	
14,700.00	7,618.00	7,610.15	7,608.78	102.38	26.89	89.94	-4,500.84	2,053.62	1,152.10	1,027.22	124.88	9.225	SF
14,800.00	7,618.00	7,610.46	7,609.09	103.89	26.89	89.95	-4,500.84	2,053.62	1,146.89	1,022.70	124.19	9.235	ES
14,809.91	7,618.00	7,610.49	7,609.12	104.04	26.89	89.96	-4,500.84	2,053.62	1,146.85	1,022.75	124.10	9.242	CC
14,900.00	7,618.00	7,610.77	7,609.40	105.40	26.89	89.97	-4,500.84	2,053.62	1,150.38	1,027.37	123.01	9.352	
15,000.00	7,618.00	7,611.10	7,609.73	106.92	26.89	89.99	-4,500.84	2,053.62	1,162.49	1,041.10	121.39	9.576	
15,100.00	7,618.00	7,611.45	7,610.08	108.45	26.89	90.00	-4,500.84	2,053.62	1,182.97	1,063.56	119.40	9.907	
15,200.00	7,618.00	7,611.81	7,610.44	109.99	26.89	90.02	-4,500.84	2,053.62	1,211.37	1,094.23	117.14	10.341	
15,300.00	7,618.00	7,612.18	7,610.81	111.54	26.89	90.04	-4,500.84	2,053.62	1,247.18	1,132.46	114.71	10.872	
15,400.00	7,618.00	7,612.57	7,611.20	113.09	26.89	90.06	-4,500.84	2,053.62	1,289.75	1,177.55	112.20	11.495	
15,500.00	7,618.00	7,612.98	7,611.61	114.65	26.90	90.08	-4,500.84	2,053.62	1,338.46	1,228.76	109.71	12.201	
15,600.00	7,618.00	7,613.41	7,612.04	116.21	26.90	90.10	-4,500.84	2,053.62	1,392.66	1,285.38	107.28	12.982	
15,700.00	7,618.00	7,613.86	7,612.49	117.78	26.90	90.12	-4,500.85	2,053.62	1,451.73	1,346.76	104.97	13.830	
15,800.00	7,618.00	7,614.33	7,612.97	119.36	26.90	90.15	-4,500.85	2,053.62	1,515.10	1,412.29	102.81	14.736	
15,900.00	7,618.00	7,614.83	7,613.46	120.94	26.90	90.17	-4,500.85	2,053.62	1,582.26	1,481.44	100.82	15.694	
16,000.00	7,618.00	7,615.35	7,613.98	122.53	26.90	90.20	-4,500.85	2,053.62	1,652.75	1,553.74	99.00	16.694	
16,100.00	7,618.00	7,615.90	7,614.53	124.12	26.91	90.23	-4,500.85	2,053.62	1,726.15	1,628.79	97.36	17.730	
16,200.00	7,618.00	7,616.48	7,615.11	125.72	26.91	90.26	-4,500.85	2,053.62	1,802.11	1,706.24	95.87	18.797	
16,300.00	7,618.00	7,617.09	7,615.72	127.32	26.91	90.29	-4,500.86	2,053.62	1,880.32	1,785.78	94.54	19.888	
16,400.00	7,618.00	7,617.74	7,616.37	128.93	26.91	90.32	-4,500.86	2,053.62	1,960.52	1,867.16	93.36	21.000	
16,500.00	7,618.00	7,618.43	7,617.06	130.54	26.92	90.35	-4,500.86	2,053.62	2,042.46	1,950.16	92.30	22.128	
16,600.00	7,618.00	7,619.15	7,617.78	132.15	26.92	90.39	-4,500.86	2,053.62	2,125.95	2,034.59	91.36	23.269	
16,700.00	7,618.00	7,619.93	7,618.56	133.77	26.92	90.43	-4,500.87	2,053.62	2,210.81	2,120.28	90.53	24.421	
16,800.00	7,618.00	16,800.00	7,582.51	135.39	59.60	88.63	-4,500.93	2,053.83	2,296.87	2,174.39	122.48	18.753	
16,900.00	7,618.00	16,900.00	7,581.81	137.01	59.96	88.59	-4,500.94	2,053.84	2,384.04	2,261.84	122.19	19.510	
17,000.00	7,618.00	17,000.00	7,581.10	138.64	60.31	88.56	-4,500.94	2,053.85	2,472.17	2,350.19	121.98	20.267	
17,100.00	7,618.00	17,100.00	7,580.40	140.27	60.67	88.52	-4,500.95	2,053.85	2,561.18	2,439.34	121.84	21.021	
17,200.00	7,618.00	17,200.00	7,579.70	141.91	61.03	88.49	-4,500.95	2,053.86	2,650.97	2,529.22	121.75	21.774	
17,300.00	7,618.00	17,300.00	7,579.00	143.55	61.38	88.45	-4,500.96	2,053.87	2,741.46	2,619.75	121.72	22.523	
17,400.00	7,618.00	17,400.00	7,578.30	145.19	61.74	88.42	-4,500.96	2,053.88	2,832.60	2,710.87	121.73	23.270	
17,500.00	7,618.00	17,500.00	7,577.60	146.83	62.09	88.38	-4,500.97	2,053.89	2,924.31	2,802.53	121.78	24.013	
17,600.00	7,618.00	17,600.00	7,576.90	148.48	62.45	88.35	-4,500.97	2,053.90	3,016.55	2,894.68	121.87	24.752	
17,700.00	7,618.00	17,700.00	7,576.20	150.13	62.81	88.31	-4,500.98	2,053.90	3,109.27	2,987.28	122.00	25.487	
17,800.00	7,618.00	17,800.00	7,575.50	151.78	63.16	88.28	-4,500.98	2,053.91	3,202.43	3,080.29	122.15	26.218	
17,900.00	7,618.00	17,900.00	7,574.80	153.43	63.52	88.24	-4,500.99	2,053.92	3,295.99	3,173.67	122.32	26.945	
18,000.00	7,618.00	18,000.00	7,574.10	155.09	63.87	88.21	-4,500.99	2,053.93	3,389.92	3,267.40	122.52	27.667	
18,100.00	7,618.00	18,100.00	7,573.40	156.75	64.23	88.17	-4,501.00	2,053.94	3,484.19	3,361.44	122.74	28.386	
18,200.00	7,618.00	18,200.00	7,572.70	158.41	64.59	88.14	-4,501.00	2,053.95	3,578.76	3,455.78	122.98	29.099	
18,300.00	7,618.00	18,300.00	7,572.00	160.07	64.94	88.10	-4,501.01	2,053.95	3,673.62	3,550.39	123.24	29.809	
18,400.00	7,618.00	18,400.00	7,571.30	161.74	65.30	88.07	-4,501.01	2,053.96	3,768.75	3,645.24	123.51	30.514	
18,500.00	7,618.00	18,500.00	7,570.60	163.41	65.65	88.03	-4,501.02	2,053.97	3,864.13	3,740.33	123.79	31.214	
18,600.00	7,618.00	18,600.00	7,569.90	165.08	66.01	88.00	-4,501.02	2,053.98	3,959.73	3,835.64	124.09	31.910	
18,700.00	7,618.00	18,700.00	7,569.20	166.75	66.37	87.96	-4,501.03	2,053.99	4,055.55	3,931.15	124.39	32.602	
18,711.30	7,618.00	18,711.30	7,569.12	166.94	66.41	87.96	-4,501.03	2,053.99	4,066.39	3,941.96	124.43	32.680	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	16.00	16.00	0.00	0.12	163.39	-7,180.39	2,141.80	7,493.02				
100.00	100.00	116.00	116.00	0.13	1.06	163.39	-7,180.39	2,141.80	7,493.02	7,491.83	1.19	6,294.792	
200.00	200.00	216.00	216.00	0.49	2.80	163.39	-7,180.39	2,141.80	7,493.02	7,489.73	3.29	2,274.642	
300.00	300.00	316.00	316.00	0.85	4.55	163.39	-7,180.39	2,141.80	7,493.02	7,487.62	5.40	1,388.122	
400.00	400.00	416.00	416.00	1.21	6.29	163.39	-7,180.39	2,141.80	7,493.02	7,485.52	7.50	998.836	
500.00	500.00	516.00	516.00	1.57	8.04	163.39	-7,180.39	2,141.80	7,493.02	7,483.41	9.61	780.071	
600.00	600.00	616.00	616.00	1.93	9.78	163.39	-7,180.39	2,141.80	7,493.02	7,481.31	11.71	639.917	
700.00	700.00	716.00	716.00	2.29	11.53	163.39	-7,180.39	2,141.80	7,493.02	7,479.21	13.81	542.455	
800.00	800.00	816.00	816.00	2.64	13.27	163.39	-7,180.39	2,141.80	7,493.02	7,477.10	15.92	470.757	
900.00	900.00	916.00	916.00	3.00	15.02	163.39	-7,180.39	2,141.80	7,493.02	7,475.00	18.02	415.799	
1,000.00	999.98	1,015.98	1,015.98	3.36	16.76	106.20	-7,180.39	2,141.80	7,493.51	7,473.39	20.12	372.430	
1,100.00	1,099.84	1,115.84	1,115.84	3.71	18.51	106.21	-7,180.39	2,141.80	7,494.97	7,472.75	22.22	337.350	
1,200.00	1,199.45	1,215.45	1,215.45	4.07	20.24	106.23	-7,180.39	2,141.80	7,497.41	7,473.10	24.32	308.343	
1,300.00	1,298.70	1,314.70	1,314.70	4.44	21.98	106.25	-7,180.39	2,141.80	7,500.85	7,474.43	26.42	283.951	
1,400.00	1,397.47	1,413.47	1,413.47	4.82	23.70	106.28	-7,180.39	2,141.80	7,505.28	7,476.76	28.52	263.140	
1,500.00	1,495.62	1,511.62	1,511.62	5.22	25.41	106.31	-7,180.39	2,141.80	7,510.73	7,480.09	30.64	245.161	
1,600.00	1,593.06	1,609.06	1,609.06	5.65	27.11	106.35	-7,180.39	2,141.80	7,517.21	7,484.44	32.76	229.455	
1,700.00	1,689.64	1,705.64	1,705.64	6.11	28.80	106.39	-7,180.39	2,141.80	7,524.74	7,489.84	34.90	215.605	
1,800.00	1,785.27	1,801.27	1,801.27	6.61	30.47	106.43	-7,180.39	2,141.80	7,533.34	7,496.29	37.06	203.288	
1,900.00	1,879.82	1,904.18	1,895.82	7.15	32.27	106.47	-7,180.39	2,141.80	7,543.05	7,503.67	39.38	191.543	
2,000.00	1,973.17	1,989.17	1,989.17	7.73	33.75	106.50	-7,180.39	2,141.80	7,553.88	7,512.44	41.43	182.313	
2,100.00	2,065.21	2,081.21	2,081.21	8.37	35.36	106.53	-7,180.39	2,141.80	7,565.86	7,522.20	43.66	173.302	
2,200.00	2,155.84	2,171.84	2,171.84	9.07	36.94	106.56	-7,180.39	2,141.80	7,579.03	7,533.12	45.91	165.097	
2,300.00	2,244.94	2,260.94	2,260.94	9.82	38.49	106.58	-7,180.39	2,141.80	7,593.41	7,545.23	48.18	157.598	
2,400.00	2,332.39	2,348.39	2,348.39	10.64	40.02	106.58	-7,180.39	2,141.80	7,609.03	7,558.55	50.48	150.720	
2,500.00	2,418.11	2,434.11	2,434.11	11.53	41.51	106.58	-7,180.39	2,141.80	7,625.94	7,573.12	52.81	144.395	
2,558.91	2,467.74	2,483.74	2,483.74	12.08	42.38	106.57	-7,180.39	2,141.80	7,636.50	7,582.31	54.20	140.905	
2,600.00	2,502.13	2,518.13	2,518.13	12.47	42.98	106.71	-7,180.39	2,141.80	7,644.07	7,588.90	55.17	138.567	
2,700.00	2,585.83	2,601.83	2,601.83	13.45	44.44	107.04	-7,180.39	2,141.80	7,662.71	7,605.17	57.54	133.177	
2,800.00	2,669.53	2,685.53	2,685.53	14.44	45.90	107.37	-7,180.39	2,141.80	7,681.70	7,621.77	59.92	128.189	
2,900.00	2,753.22	2,769.22	2,769.22	15.46	47.36	107.70	-7,180.39	2,141.80	7,701.03	7,638.71	62.32	123.568	
3,000.00	2,836.92	2,852.92	2,852.92	16.48	48.82	108.03	-7,180.39	2,141.80	7,720.70	7,655.97	64.73	119.280	
3,100.00	2,920.62	2,936.62	2,936.62	17.52	50.29	108.36	-7,180.39	2,141.80	7,740.71	7,673.57	67.14	115.294	
3,200.00	3,004.32	3,020.32	3,020.32	18.56	51.75	108.69	-7,180.39	2,141.80	7,761.05	7,691.49	69.55	111.584	
3,300.00	3,088.01	3,104.01	3,104.01	19.61	53.21	109.02	-7,180.39	2,141.80	7,781.72	7,709.75	71.97	108.123	
3,400.00	3,171.71	3,187.71	3,187.71	20.67	54.67	109.34	-7,180.39	2,141.80	7,802.72	7,728.33	74.39	104.890	
3,500.00	3,255.41	3,271.41	3,271.41	21.73	56.13	109.67	-7,180.39	2,141.80	7,824.05	7,747.24	76.81	101.864	
3,600.00	3,339.10	3,355.10	3,355.10	22.80	57.59	109.99	-7,180.39	2,141.80	7,845.70	7,766.48	79.23	99.028	
3,700.00	3,422.80	3,438.80	3,438.80	23.87	59.05	110.31	-7,180.39	2,141.80	7,867.68	7,786.03	81.64	96.365	
3,800.00	3,506.50	3,522.50	3,522.50	24.94	60.51	110.63	-7,180.39	2,141.80	7,889.97	7,805.91	84.06	93.860	
3,900.00	3,590.20	3,606.20	3,606.20	26.02	61.97	110.95	-7,180.39	2,141.80	7,912.58	7,826.10	86.48	91.501	
4,000.00	3,673.89	3,689.89	3,689.89	27.10	63.43	111.27	-7,180.39	2,141.80	7,935.50	7,846.61	88.89	89.276	
4,100.00	3,757.59	3,773.59	3,773.59	28.18	64.89	111.58	-7,180.39	2,141.80	7,958.73	7,867.43	91.30	87.175	
4,200.00	3,841.29	3,857.29	3,857.29	29.26	66.35	111.90	-7,180.39	2,141.80	7,982.27	7,888.57	93.70	85.188	
4,300.00	3,924.99	3,940.99	3,940.99	30.35	67.81	112.21	-7,180.39	2,141.80	8,006.11	7,910.01	96.10	83.306	
4,400.00	4,008.68	4,024.68	4,024.68	31.44	69.28	112.52	-7,180.39	2,141.80	8,030.26	7,931.75	98.50	81.523	
4,500.00	4,092.38	4,108.38	4,108.38	32.52	70.74	112.83	-7,180.39	2,141.80	8,054.70	7,953.80	100.90	79.829	
4,600.00	4,176.08	4,207.92	4,192.08	33.62	72.47	113.14	-7,180.39	2,141.80	8,079.44	7,975.87	103.57	78.012	
4,700.00	4,259.77	4,275.77	4,275.77	34.71	73.66	113.45	-7,180.39	2,141.80	8,104.48	7,998.80	105.68	76.690	
4,800.00	4,343.47	4,359.47	4,359.47	35.80	75.12	113.76	-7,180.39	2,141.80	8,129.80	8,021.74	108.06	75.233	
4,900.00	4,427.17	4,443.17	4,443.17	36.89	76.58	114.06	-7,180.39	2,141.80	8,155.42	8,044.98	110.44	73.844	
5,000.00	4,510.87	4,526.87	4,526.87	37.99	78.04	114.37	-7,180.39	2,141.80	8,181.32	8,068.50	112.82	72.519	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	4,610.56	4,610.56	39.08	79.50	114.67	-7,180.39	2,141.80	8,207.50	8,092.32	115.19	71.254	
5,200.00	4,678.26	4,705.74	4,694.26	40.18	81.16	114.97	-7,180.39	2,141.80	8,233.97	8,116.22	117.75	69.926	
5,300.00	4,761.96	4,777.96	4,777.96	41.28	82.42	115.27	-7,180.39	2,141.80	8,260.71	8,140.80	119.91	68.889	
5,400.00	4,845.66	4,861.66	4,861.66	42.37	83.88	115.56	-7,180.39	2,141.80	8,287.73	8,165.46	122.27	67.782	
5,500.00	4,929.35	4,945.35	4,945.35	43.47	85.34	115.86	-7,180.39	2,141.80	8,315.02	8,190.40	124.62	66.722	
5,600.00	5,013.05	5,029.05	5,029.05	44.57	86.80	116.15	-7,180.39	2,141.80	8,342.58	8,215.61	126.97	65.706	
5,700.00	5,096.75	5,112.75	5,112.75	45.67	88.27	116.45	-7,180.39	2,141.80	8,370.41	8,241.09	129.31	64.730	
5,800.00	5,180.45	5,203.56	5,196.45	46.77	89.85	116.74	-7,180.39	2,141.80	8,398.50	8,266.72	131.77	63.734	
5,900.00	5,264.14	5,280.14	5,280.14	47.87	91.19	117.03	-7,180.39	2,141.80	8,426.85	8,292.87	133.98	62.895	
6,000.00	5,347.84	5,363.84	5,363.84	48.97	92.65	117.32	-7,180.39	2,141.80	8,455.46	8,319.15	136.31	62.031	
6,100.00	5,431.54	5,447.54	5,447.54	50.07	94.11	117.61	-7,180.39	2,141.80	8,484.33	8,345.70	138.63	61.200	
6,200.00	5,515.23	5,531.23	5,531.23	51.17	95.57	117.89	-7,180.39	2,141.80	8,513.45	8,372.50	140.95	60.399	
6,300.00	5,598.93	5,614.93	5,614.93	52.27	97.03	118.18	-7,180.39	2,141.80	8,542.83	8,399.56	143.27	59.629	
6,400.00	5,682.63	5,701.37	5,698.63	53.38	98.54	118.46	-7,180.39	2,141.80	8,572.45	8,426.83	145.62	58.868	
6,500.00	5,766.33	5,782.33	5,782.33	54.48	99.95	118.74	-7,180.39	2,141.80	8,602.32	8,454.44	147.88	58.172	
6,600.00	5,850.02	5,866.02	5,866.02	55.58	101.41	119.02	-7,180.39	2,141.80	8,632.43	8,482.25	150.18	57.482	
6,700.00	5,933.72	5,949.72	5,949.72	56.68	102.87	119.30	-7,180.39	2,141.80	8,662.78	8,510.31	152.47	56.816	
6,800.00	6,017.42	6,033.42	6,033.42	57.79	104.33	119.57	-7,180.39	2,141.80	8,693.37	8,538.61	154.76	56.173	
6,900.00	6,101.12	6,117.12	6,117.12	58.89	105.80	119.85	-7,180.39	2,141.80	8,724.20	8,567.16	157.04	55.552	
7,000.00	6,184.81	6,200.81	6,200.81	59.99	107.26	120.12	-7,180.39	2,141.80	8,755.26	8,595.94	159.32	54.952	
7,100.00	6,268.51	6,284.51	6,284.51	61.10	108.72	120.39	-7,180.39	2,141.80	8,786.55	8,624.95	161.60	54.373	
7,200.00	6,352.21	6,368.21	6,368.21	62.20	110.18	120.66	-7,180.39	2,141.80	8,818.07	8,654.21	163.87	53.812	
7,300.00	6,435.90	6,451.90	6,451.90	63.31	111.64	120.93	-7,180.39	2,141.80	8,849.82	8,683.69	166.13	53.269	
7,400.00	6,519.60	6,535.60	6,535.60	64.41	113.10	121.20	-7,180.39	2,141.80	8,881.79	8,713.40	168.39	52.744	
7,500.00	6,603.30	6,619.30	6,619.30	65.51	114.56	121.47	-7,180.39	2,141.80	8,913.98	8,743.33	170.65	52.235	
7,600.00	6,687.00	6,703.00	6,703.00	66.62	116.02	121.73	-7,180.39	2,141.80	8,946.39	8,773.49	172.90	51.743	
7,700.00	6,770.69	6,786.69	6,786.69	67.72	117.48	122.00	-7,180.39	2,141.80	8,979.02	8,803.87	175.15	51.266	
7,800.00	6,854.39	6,870.39	6,870.39	68.83	118.94	122.26	-7,180.39	2,141.80	9,011.86	8,834.47	177.39	50.803	
7,900.00	6,938.09	6,954.09	6,954.09	69.93	120.40	122.52	-7,180.39	2,141.80	9,044.92	8,865.29	179.63	50.354	
7,933.18	6,965.86	6,981.86	6,981.86	70.30	120.89	122.60	-7,180.39	2,141.80	9,055.93	8,875.56	180.37	50.208	
7,950.00	6,980.00	7,004.00	6,996.00	70.49	121.27	120.29	-7,180.39	2,141.80	9,061.29	8,880.41	180.88	50.095	
8,000.00	7,022.68	7,038.68	7,038.68	71.01	121.88	112.75	-7,180.39	2,141.80	9,074.47	8,892.59	181.88	49.892	
8,050.00	7,066.06	7,082.06	7,082.06	71.51	122.64	104.37	-7,180.39	2,141.80	9,083.47	8,900.43	183.04	49.626	
8,100.00	7,109.82	7,125.82	7,125.82	71.97	123.40	95.48	-7,180.39	2,141.80	9,088.22	8,904.01	184.21	49.338	
8,150.00	7,153.63	7,169.63	7,169.63	72.38	124.16	86.54	-7,180.39	2,141.80	9,088.69	8,903.32	185.37	49.031	
8,200.00	7,197.14	7,213.14	7,213.14	72.74	124.92	78.08	-7,180.39	2,141.80	9,084.88	8,898.37	186.51	48.709	
8,250.00	7,240.04	7,256.04	7,256.04	73.05	125.67	70.46	-7,180.39	2,141.80	9,076.82	8,889.19	187.63	48.375	
8,300.00	7,281.99	7,302.01	7,297.99	73.31	126.48	63.88	-7,180.39	2,141.80	9,064.57	8,875.78	188.79	48.014	
8,350.00	7,322.67	7,338.67	7,338.67	73.52	127.12	58.38	-7,180.39	2,141.80	9,048.22	8,858.46	189.76	47.682	
8,400.00	7,361.77	7,377.77	7,377.77	73.68	127.80	53.88	-7,180.39	2,141.80	9,027.90	8,837.14	190.76	47.327	
8,450.00	7,399.01	7,415.01	7,415.01	73.78	128.45	50.27	-7,180.39	2,141.80	9,003.75	8,812.05	191.69	46.969	
8,500.00	7,434.08	7,450.08	7,450.08	73.85	129.06	47.46	-7,180.39	2,141.80	8,975.95	8,783.38	192.57	46.611	
8,550.00	7,466.74	7,482.74	7,482.74	73.87	129.63	45.34	-7,180.39	2,141.80	8,944.71	8,751.33	193.38	46.254	
8,600.00	7,496.72	7,512.72	7,512.72	73.85	130.15	43.87	-7,180.39	2,141.80	8,910.27	8,716.15	194.12	45.901	
8,650.00	7,523.80	7,539.80	7,539.80	73.79	130.63	43.01	-7,180.39	2,141.80	8,872.86	8,678.08	194.78	45.552	
8,700.00	7,547.77	7,563.77	7,563.77	73.70	131.04	42.79	-7,180.39	2,141.80	8,832.78	8,637.41	195.37	45.210	
8,750.00	7,568.45	7,584.45	7,584.45	73.58	131.41	43.30	-7,180.39	2,141.80	8,790.32	8,594.44	195.88	44.877	
8,800.00	7,585.69	7,601.69	7,601.69	73.43	131.71	44.75	-7,180.39	2,141.80	8,745.78	8,549.48	196.30	44.552	
8,850.00	7,599.35	7,615.35	7,615.35	73.26	131.94	47.61	-7,180.39	2,141.80	8,699.51	8,502.87	196.65	44.239	
8,900.00	7,609.33	7,625.33	7,625.33	73.07	132.12	52.91	-7,180.39	2,141.80	8,651.85	8,454.95	196.91	43.939	
8,950.00	7,615.55	7,631.55	7,631.55	72.87	132.23	63.23	-7,180.39	2,141.80	8,603.15	8,406.07	197.09	43.652	
9,000.00	7,617.97	7,633.97	7,633.97	72.65	132.27	85.53	-7,180.39	2,141.80	8,553.78	8,356.60	197.18	43.380	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,006.60	7,618.00	7,634.00	7,634.00	72.62	132.27	90.00	-7,180.39	2,141.80	8,547.23	8,350.04	197.19	43.345	
9,100.00	7,618.00	7,634.00	7,634.00	72.22	132.27	90.00	-7,180.39	2,141.80	8,454.55	8,257.27	197.28	42.856	
9,200.00	7,618.00	7,634.00	7,634.00	71.80	132.27	90.00	-7,180.39	2,141.80	8,355.33	8,157.96	197.37	42.333	
9,300.00	7,618.00	7,634.00	7,634.00	71.41	132.27	90.00	-7,180.39	2,141.80	8,256.13	8,058.66	197.47	41.809	
9,400.00	7,618.00	7,634.00	7,634.00	71.04	132.27	90.00	-7,180.39	2,141.80	8,156.95	7,959.38	197.58	41.285	
9,500.00	7,618.00	7,634.00	7,634.00	70.68	132.27	90.00	-7,180.39	2,141.80	8,057.80	7,860.12	197.68	40.762	
9,600.00	7,618.00	7,634.00	7,634.00	70.35	132.27	90.00	-7,180.39	2,141.80	7,958.66	7,760.87	197.79	40.238	
9,700.00	7,618.00	7,634.00	7,634.00	70.04	132.27	90.00	-7,180.39	2,141.80	7,859.54	7,661.64	197.90	39.714	
9,800.00	7,618.00	7,634.00	7,634.00	69.75	132.27	90.00	-7,180.39	2,141.80	7,760.45	7,562.43	198.02	39.190	
9,900.00	7,618.00	7,634.00	7,634.00	69.47	132.27	90.00	-7,180.39	2,141.80	7,661.38	7,463.24	198.14	38.666	
10,000.00	7,618.00	7,634.00	7,634.00	69.22	132.27	90.00	-7,180.39	2,141.80	7,562.34	7,364.07	198.27	38.142	
10,100.00	7,618.00	7,634.00	7,634.00	68.99	132.27	90.00	-7,180.39	2,141.80	7,463.32	7,264.92	198.40	37.618	
10,200.00	7,618.00	7,634.00	7,634.00	68.78	132.27	90.00	-7,180.39	2,141.80	7,364.32	7,165.80	198.53	37.094	
10,300.00	7,618.00	7,634.00	7,634.00	68.59	132.27	90.00	-7,180.39	2,141.80	7,265.36	7,066.69	198.67	36.570	
10,400.00	7,618.00	7,634.00	7,634.00	68.42	132.27	90.00	-7,180.39	2,141.80	7,166.42	6,967.61	198.81	36.047	
10,500.00	7,618.00	7,634.00	7,634.00	68.28	132.27	90.00	-7,180.39	2,141.80	7,067.52	6,868.56	198.96	35.523	
10,600.00	7,618.00	7,634.00	7,634.00	68.16	132.27	90.00	-7,180.39	2,141.80	6,968.64	6,769.53	199.11	34.999	
10,700.00	7,618.00	7,634.00	7,634.00	68.06	132.27	90.00	-7,180.39	2,141.80	6,869.80	6,670.53	199.27	34.475	
10,800.00	7,618.00	7,634.00	7,634.00	67.99	132.27	90.00	-7,180.39	2,141.80	6,770.99	6,571.56	199.43	33.951	
10,900.00	7,618.00	7,634.00	7,634.00	67.95	132.27	90.00	-7,180.39	2,141.80	6,672.22	6,472.61	199.60	33.427	
11,000.00	7,618.00	7,634.00	7,634.00	67.95	132.27	90.00	-7,180.39	2,141.80	6,573.48	6,373.70	199.78	32.904	
11,100.00	7,618.00	7,634.00	7,634.00	67.97	132.27	90.00	-7,180.39	2,141.80	6,474.78	6,274.82	199.96	32.380	
11,200.00	7,618.00	7,634.00	7,634.00	68.04	132.27	90.00	-7,180.39	2,141.80	6,376.13	6,175.97	200.15	31.856	
11,300.00	7,618.00	7,634.00	7,634.00	68.15	132.27	90.00	-7,180.39	2,141.80	6,277.51	6,077.16	200.35	31.333	
11,400.00	7,618.00	7,634.00	7,634.00	68.30	132.27	90.00	-7,180.39	2,141.80	6,178.94	5,978.39	200.55	30.809	
11,500.00	7,618.00	7,634.00	7,634.00	68.50	132.27	90.00	-7,180.39	2,141.80	6,080.42	5,879.65	200.77	30.286	
11,600.00	7,618.00	7,634.00	7,634.00	68.75	132.27	90.00	-7,180.39	2,141.80	5,981.95	5,780.96	200.99	29.763	
11,700.00	7,618.00	7,634.00	7,634.00	69.06	132.27	90.00	-7,180.39	2,141.80	5,883.52	5,682.31	201.21	29.240	
11,800.00	7,618.00	7,634.00	7,634.00	69.44	132.27	90.00	-7,180.39	2,141.80	5,785.15	5,583.70	201.45	28.717	
11,900.00	7,618.00	7,634.00	7,634.00	69.88	132.27	90.00	-7,180.39	2,141.80	5,686.84	5,485.14	201.70	28.195	
12,000.00	7,618.00	7,634.00	7,634.00	70.39	132.27	90.00	-7,180.39	2,141.80	5,588.59	5,386.64	201.96	27.672	
12,100.00	7,618.00	7,634.00	7,634.00	70.97	132.27	90.00	-7,180.39	2,141.80	5,490.40	5,288.18	202.22	27.150	
12,200.00	7,618.00	7,634.00	7,634.00	71.63	132.27	90.00	-7,180.39	2,141.80	5,392.28	5,189.78	202.50	26.628	
12,300.00	7,618.00	7,634.00	7,634.00	72.35	132.27	90.00	-7,180.39	2,141.80	5,294.23	5,091.44	202.79	26.107	
12,400.00	7,618.00	7,634.00	7,634.00	73.15	132.27	90.00	-7,180.39	2,141.80	5,196.25	4,993.16	203.10	25.585	
12,500.00	7,618.00	7,634.00	7,634.00	74.01	132.27	90.00	-7,180.39	2,141.80	5,098.35	4,894.94	203.41	25.064	
12,600.00	7,618.00	7,634.00	7,634.00	74.93	132.27	90.00	-7,180.39	2,141.80	5,000.54	4,796.79	203.74	24.543	
12,700.00	7,618.00	7,634.00	7,634.00	75.91	132.27	90.00	-7,180.39	2,141.80	4,902.81	4,698.72	204.09	24.023	
12,800.00	7,618.00	7,634.00	7,634.00	76.95	132.27	90.00	-7,180.39	2,141.80	4,805.18	4,600.73	204.45	23.503	
12,900.00	7,618.00	7,634.00	7,634.00	78.04	132.27	90.00	-7,180.39	2,141.80	4,707.64	4,502.81	204.83	22.983	
13,000.00	7,618.00	7,634.00	7,634.00	79.16	132.27	90.00	-7,180.39	2,141.80	4,610.21	4,404.99	205.22	22.464	
13,100.00	7,618.00	7,634.00	7,634.00	80.33	132.27	90.00	-7,180.39	2,141.80	4,512.90	4,307.26	205.64	21.946	
13,200.00	7,618.00	7,634.00	7,634.00	81.54	132.27	90.00	-7,180.39	2,141.80	4,415.70	4,209.62	206.07	21.428	
13,300.00	7,618.00	7,634.00	7,634.00	82.78	132.27	90.00	-7,180.39	2,141.80	4,318.63	4,112.10	206.53	20.910	
13,400.00	7,618.00	7,634.00	7,634.00	84.05	132.27	90.00	-7,180.39	2,141.80	4,221.70	4,014.69	207.01	20.393	
13,500.00	7,618.00	7,634.00	7,634.00	85.35	132.27	90.00	-7,180.39	2,141.80	4,124.91	3,917.40	207.52	19.877	
13,600.00	7,618.00	7,634.00	7,634.00	86.67	132.27	90.00	-7,180.39	2,141.80	4,028.29	3,820.24	208.05	19.362	
13,700.00	7,618.00	7,634.00	7,634.00	88.02	132.27	90.00	-7,180.39	2,141.80	3,931.83	3,723.22	208.61	18.848	
13,800.00	7,618.00	7,634.00	7,634.00	89.38	132.27	90.00	-7,180.39	2,141.80	3,835.55	3,626.35	209.20	18.334	
13,900.00	7,618.00	7,634.00	7,634.00	90.77	132.27	90.00	-7,180.39	2,141.80	3,739.46	3,529.64	209.83	17.822	
14,000.00	7,618.00	7,634.00	7,634.00	92.17	132.27	90.00	-7,180.39	2,141.80	3,643.59	3,433.11	210.48	17.310	
14,100.00	7,618.00	7,634.00	7,634.00	93.59	132.27	90.00	-7,180.39	2,141.80	3,547.95	3,336.76	211.18	16.800	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,618.00	7,634.00	7,634.00	95.02	132.27	90.00	-7,180.39	2,141.80	3,452.55	3,240.63	211.92	16.292	
14,300.00	7,618.00	7,634.00	7,634.00	96.47	132.27	90.00	-7,180.39	2,141.80	3,357.42	3,144.71	212.71	15.784	
14,400.00	7,618.00	7,634.00	7,634.00	97.93	132.27	90.00	-7,180.39	2,141.80	3,262.58	3,049.04	213.54	15.279	
14,500.00	7,618.00	7,634.00	7,634.00	99.41	132.27	90.00	-7,180.39	2,141.80	3,168.06	2,953.64	214.43	14.775	
14,600.00	7,618.00	7,634.00	7,634.00	100.89	132.27	90.00	-7,180.39	2,141.80	3,073.89	2,858.52	215.37	14.273	
14,700.00	7,618.00	7,634.00	7,634.00	102.38	132.27	90.00	-7,180.39	2,141.80	2,980.09	2,763.72	216.37	13.773	
14,800.00	7,618.00	7,634.00	7,634.00	103.89	132.27	90.00	-7,180.39	2,141.80	2,886.72	2,669.27	217.44	13.276	
14,900.00	7,618.00	7,634.00	7,634.00	105.40	132.27	90.00	-7,180.39	2,141.80	2,793.80	2,575.21	218.59	12.781	
15,000.00	7,618.00	7,634.00	7,634.00	106.92	132.27	90.00	-7,180.39	2,141.80	2,701.38	2,481.57	219.81	12.290	
15,100.00	7,618.00	7,634.00	7,634.00	108.45	132.27	90.00	-7,180.39	2,141.80	2,609.53	2,388.41	221.12	11.801	
15,200.00	7,618.00	7,634.00	7,634.00	109.99	132.27	90.00	-7,180.39	2,141.80	2,518.30	2,295.77	222.53	11.317	
15,300.00	7,618.00	7,634.00	7,634.00	111.54	132.27	90.00	-7,180.39	2,141.80	2,427.75	2,203.72	224.03	10.837	
15,400.00	7,618.00	7,634.00	7,634.00	113.09	132.27	90.00	-7,180.39	2,141.80	2,337.98	2,112.33	225.65	10.361	
15,500.00	7,618.00	7,634.00	7,634.00	114.65	132.27	90.00	-7,180.39	2,141.80	2,249.07	2,021.68	227.39	9.891	
15,600.00	7,618.00	7,634.00	7,634.00	116.21	132.27	90.00	-7,180.39	2,141.80	2,161.13	1,931.87	229.26	9.426	
15,700.00	7,618.00	7,634.00	7,634.00	117.78	132.27	90.00	-7,180.39	2,141.80	2,074.29	1,843.01	231.28	8.969	
15,800.00	7,618.00	7,634.00	7,634.00	119.36	132.27	90.00	-7,180.39	2,141.80	1,988.68	1,755.24	233.44	8.519	
15,900.00	7,618.00	7,634.00	7,634.00	120.94	132.27	90.00	-7,180.39	2,141.80	1,904.47	1,668.70	235.76	8.078	
16,000.00	7,618.00	7,634.00	7,634.00	122.53	132.27	90.00	-7,180.39	2,141.80	1,821.86	1,583.60	238.26	7.647	
16,100.00	7,618.00	7,634.00	7,634.00	124.12	132.27	90.00	-7,180.39	2,141.80	1,741.08	1,500.14	240.93	7.226	
16,200.00	7,618.00	7,634.00	7,634.00	125.72	132.27	90.00	-7,180.39	2,141.80	1,662.38	1,418.60	243.79	6.819	
16,300.00	7,618.00	7,634.00	7,634.00	127.32	132.27	90.00	-7,180.39	2,141.80	1,586.09	1,339.28	246.82	6.426	
16,400.00	7,618.00	7,634.00	7,634.00	128.93	132.27	90.00	-7,180.39	2,141.80	1,512.57	1,262.56	250.01	6.050	
16,500.00	7,618.00	7,634.00	7,634.00	130.54	132.27	90.00	-7,180.39	2,141.80	1,442.23	1,188.88	253.35	5.693	
16,600.00	7,618.00	7,634.00	7,634.00	132.15	132.27	90.00	-7,180.39	2,141.80	1,375.57	1,118.78	256.79	5.357	
16,700.00	7,618.00	7,634.00	7,634.00	133.77	132.27	90.00	-7,180.39	2,141.80	1,313.15	1,052.88	260.27	5.045	
16,800.00	7,618.00	7,634.00	7,634.00	135.39	132.27	90.00	-7,180.39	2,141.80	1,255.60	991.90	263.70	4.761	
16,900.00	7,618.00	7,634.00	7,634.00	137.01	132.27	90.00	-7,180.39	2,141.80	1,203.62	936.65	266.97	4.508	
17,000.00	7,618.00	7,634.00	7,634.00	138.64	132.27	90.00	-7,180.39	2,141.80	1,157.97	888.05	269.92	4.290	
17,100.00	7,618.00	7,634.00	7,634.00	140.27	132.27	90.00	-7,180.39	2,141.80	1,119.40	847.03	272.37	4.110	
17,200.00	7,618.00	7,634.00	7,634.00	141.91	132.27	90.00	-7,180.39	2,141.80	1,088.68	814.55	274.13	3.971	
17,300.00	7,618.00	7,634.00	7,634.00	143.55	132.27	90.00	-7,180.39	2,141.80	1,066.49	791.46	275.03	3.878	
17,400.00	7,618.00	7,634.00	7,634.00	145.19	132.27	90.00	-7,180.39	2,141.80	1,053.36	778.44	274.92	3.832	SF
17,489.15	7,618.00	7,634.00	7,634.00	146.65	132.27	90.00	-7,180.39	2,141.80	1,049.58	775.67	273.91	3.832	CC, ES
17,500.00	7,618.00	7,634.00	7,634.00	146.83	132.27	90.00	-7,180.39	2,141.80	1,049.64	775.91	273.73	3.835	
17,600.00	7,618.00	7,634.00	7,634.00	148.48	132.27	90.00	-7,180.39	2,141.80	1,055.42	783.95	271.47	3.888	
17,700.00	7,618.00	7,634.00	7,634.00	150.13	132.27	90.00	-7,180.39	2,141.80	1,070.55	802.30	268.25	3.991	
17,800.00	7,618.00	7,634.00	7,634.00	151.78	132.27	90.00	-7,180.39	2,141.80	1,094.65	830.40	264.25	4.142	
17,900.00	7,618.00	7,634.00	7,634.00	153.43	132.27	90.00	-7,180.39	2,141.80	1,127.13	867.46	259.67	4.341	
18,000.00	7,618.00	7,634.00	7,634.00	155.09	132.27	90.00	-7,180.39	2,141.80	1,167.30	912.55	254.75	4.582	
18,100.00	7,618.00	7,634.00	7,634.00	156.75	132.27	90.00	-7,180.39	2,141.80	1,214.40	964.70	249.69	4.864	
18,200.00	7,618.00	7,634.00	7,634.00	158.41	132.27	90.00	-7,180.39	2,141.80	1,267.65	1,022.99	244.66	5.181	
18,300.00	7,618.00	7,634.00	7,634.00	160.07	132.27	90.00	-7,180.39	2,141.80	1,326.31	1,086.53	239.78	5.531	
18,400.00	7,618.00	7,634.00	7,634.00	161.74	132.27	90.00	-7,180.39	2,141.80	1,389.70	1,154.55	235.15	5.910	
18,500.00	7,618.00	7,634.00	7,634.00	163.41	132.27	90.00	-7,180.39	2,141.80	1,457.20	1,226.39	230.82	6.313	
18,600.00	7,618.00	7,634.00	7,634.00	165.08	132.27	90.00	-7,180.39	2,141.80	1,528.27	1,301.46	226.81	6.738	
18,700.00	7,618.00	7,634.00	7,634.00	166.75	132.27	90.00	-7,180.39	2,141.80	1,602.43	1,379.29	223.14	7.181	
18,711.30	7,618.00	7,634.00	7,634.00	166.94	132.27	90.00	-7,180.39	2,141.80	1,610.99	1,388.25	222.74	7.233	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	140.22	-6,863.62	5,714.47	8,931.16				
100.00	100.00	67.00	67.00	0.13	0.53	140.22	-6,863.62	5,714.47	8,931.10	8,930.44	0.66	N/A	
200.00	200.00	167.00	167.00	0.49	1.95	140.22	-6,863.62	5,714.47	8,931.10	8,928.65	2.45	3,648.819	
300.00	300.00	267.00	267.00	0.85	3.70	140.22	-6,863.62	5,714.47	8,931.10	8,926.55	4.55	1,962.245	
400.00	400.00	367.00	367.00	1.21	5.45	140.22	-6,863.62	5,714.47	8,931.10	8,924.44	6.66	1,341.959	
500.00	500.00	467.00	467.00	1.57	7.19	140.22	-6,863.62	5,714.47	8,931.10	8,922.34	8.76	1,019.640	
600.00	600.00	567.00	567.00	1.93	8.94	140.22	-6,863.62	5,714.47	8,931.10	8,920.23	10.86	822.167	
700.00	700.00	667.00	667.00	2.29	10.68	140.22	-6,863.62	5,714.47	8,931.10	8,918.13	12.97	688.773	
800.00	800.00	767.00	767.00	2.64	12.43	140.22	-6,863.62	5,714.47	8,931.10	8,916.03	15.07	592.622	
900.00	900.00	867.00	867.00	3.00	14.17	140.22	-6,863.62	5,714.47	8,931.10	8,913.92	17.17	520.028	
1,000.00	999.98	966.98	966.98	3.36	15.92	83.04	-6,863.62	5,714.47	8,930.89	8,911.61	19.27	463.369	
1,100.00	1,099.84	1,066.84	1,066.84	3.71	17.66	83.09	-6,863.62	5,714.47	8,930.25	8,908.88	21.37	417.894	
1,200.00	1,199.45	1,166.45	1,166.45	4.07	19.40	83.17	-6,863.62	5,714.47	8,929.21	8,905.74	23.47	380.507	
1,300.00	1,298.70	1,265.70	1,265.70	4.44	21.13	83.27	-6,863.62	5,714.47	8,927.76	8,902.19	25.57	349.199	
1,400.00	1,397.47	1,364.47	1,364.47	4.82	22.85	83.41	-6,863.62	5,714.47	8,925.92	8,898.25	27.67	322.563	
1,500.00	1,495.62	1,462.62	1,462.62	5.22	24.57	83.57	-6,863.62	5,714.47	8,923.72	8,893.93	29.79	299.591	
1,600.00	1,593.06	1,560.06	1,560.06	5.65	26.27	83.76	-6,863.62	5,714.47	8,921.17	8,889.26	31.91	279.543	
1,700.00	1,689.64	1,656.64	1,656.64	6.11	27.95	83.98	-6,863.62	5,714.47	8,918.31	8,884.25	34.06	261.865	
1,800.00	1,785.27	1,752.27	1,752.27	6.61	29.62	84.22	-6,863.62	5,714.47	8,915.17	8,878.95	36.22	246.135	
1,900.00	1,879.82	1,846.82	1,846.82	7.15	31.27	84.48	-6,863.62	5,714.47	8,911.78	8,873.37	38.41	232.030	
2,000.00	1,973.17	1,940.17	1,940.17	7.73	32.90	84.77	-6,863.62	5,714.47	8,908.19	8,867.57	40.62	219.296	
2,100.00	2,065.21	2,032.21	2,032.21	8.37	34.51	85.08	-6,863.62	5,714.47	8,904.44	8,861.57	42.87	207.731	
2,200.00	2,155.84	2,122.84	2,122.84	9.07	36.09	85.40	-6,863.62	5,714.47	8,900.57	8,855.43	45.14	197.175	
2,300.00	2,244.94	2,211.94	2,211.94	9.82	37.65	85.74	-6,863.62	5,714.47	8,896.63	8,849.18	47.45	187.499	
2,400.00	2,332.39	2,300.61	2,299.39	10.64	39.19	86.09	-6,863.62	5,714.47	8,892.68	8,842.87	49.81	178.521	
2,500.00	2,418.11	2,385.11	2,385.11	11.53	40.67	86.45	-6,863.62	5,714.47	8,888.78	8,836.61	52.17	170.380	
2,558.91	2,467.74	2,434.74	2,434.74	12.08	41.53	86.67	-6,863.62	5,714.47	8,886.52	8,832.93	53.59	165.834	
2,600.00	2,502.13	2,469.13	2,469.13	12.47	42.13	86.79	-6,863.62	5,714.47	8,884.99	8,830.41	54.58	162.785	
2,700.00	2,585.83	2,552.83	2,552.83	13.45	43.60	87.08	-6,863.62	5,714.47	8,881.49	8,824.47	57.02	155.760	
2,800.00	2,669.53	2,636.53	2,636.53	14.44	45.06	87.38	-6,863.62	5,714.47	8,878.34	8,818.86	59.48	149.268	
2,900.00	2,753.22	2,720.22	2,720.22	15.46	46.52	87.67	-6,863.62	5,714.47	8,875.52	8,813.56	61.95	143.260	
3,000.00	2,836.92	2,803.92	2,803.92	16.48	47.98	87.97	-6,863.62	5,714.47	8,873.03	8,808.59	64.44	137.692	
3,100.00	2,920.62	2,887.62	2,887.62	17.52	49.44	88.27	-6,863.62	5,714.47	8,870.89	8,803.95	66.94	132.521	
3,200.00	3,004.32	2,971.32	2,971.32	18.56	50.90	88.56	-6,863.62	5,714.47	8,869.08	8,799.63	69.45	127.711	
3,300.00	3,088.01	3,055.01	3,055.01	19.61	52.36	88.86	-6,863.62	5,714.47	8,867.61	8,795.64	71.96	123.229	
3,400.00	3,171.71	3,138.71	3,138.71	20.67	53.82	89.15	-6,863.62	5,714.47	8,866.47	8,791.99	74.48	119.044	
3,500.00	3,255.41	3,222.41	3,222.41	21.73	55.28	89.45	-6,863.62	5,714.47	8,865.67	8,788.67	77.01	115.130	
3,600.00	3,339.10	3,306.10	3,306.10	22.80	56.74	89.75	-6,863.62	5,714.47	8,865.21	8,785.68	79.54	111.463	
3,686.01	3,411.09	3,378.09	3,378.09	23.72	58.00	90.00	-6,863.62	5,714.47	8,865.09	8,783.37	81.71	108.490	
3,700.00	3,422.80	3,389.80	3,389.80	23.87	58.20	90.04	-6,863.62	5,714.47	8,865.09	8,783.02	82.07	108.021	
3,800.00	3,506.50	3,473.50	3,473.50	24.94	59.66	90.34	-6,863.62	5,714.47	8,865.31	8,780.70	84.60	104.786	
3,900.00	3,590.20	3,557.20	3,557.20	26.02	61.12	90.63	-6,863.62	5,714.47	8,865.86	8,778.72	87.14	101.740	
4,000.00	3,673.89	3,640.89	3,640.89	27.10	62.59	90.93	-6,863.62	5,714.47	8,866.75	8,777.07	89.68	98.869	
4,100.00	3,757.59	3,724.59	3,724.59	28.18	64.05	91.23	-6,863.62	5,714.47	8,867.98	8,775.76	92.22	96.157	
4,200.00	3,841.29	3,808.29	3,808.29	29.26	65.51	91.52	-6,863.62	5,714.47	8,869.55	8,774.78	94.77	93.594	
4,300.00	3,924.99	3,908.01	3,891.99	30.35	67.25	91.82	-6,863.62	5,714.47	8,871.45	8,773.86	97.59	90.906	
4,400.00	4,008.68	3,975.68	3,975.68	31.44	68.43	92.11	-6,863.62	5,714.47	8,873.70	8,773.84	99.85	88.867	
4,500.00	4,092.38	4,059.38	4,059.38	32.52	69.89	92.41	-6,863.62	5,714.47	8,876.27	8,773.88	102.40	86.685	
4,600.00	4,176.08	4,143.08	4,143.08	33.62	71.35	92.70	-6,863.62	5,714.47	8,879.19	8,774.25	104.94	84.611	
4,700.00	4,259.77	4,226.77	4,226.77	34.71	72.81	93.00	-6,863.62	5,714.47	8,882.44	8,774.95	107.49	82.639	
4,800.00	4,343.47	4,310.47	4,310.47	35.80	74.27	93.29	-6,863.62	5,714.47	8,886.03	8,776.00	110.03	80.761	
4,900.00	4,427.17	4,405.83	4,394.17	36.89	75.94	93.59	-6,863.62	5,714.47	8,889.95	8,777.17	112.77	78.829	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,510.87	4,477.87	4,477.87	37.99	77.19	93.88	-6,863.62	5,714.47	8,894.20	8,779.09	115.11	77.265	
5,100.00	4,594.56	4,561.56	4,561.56	39.08	78.65	94.18	-6,863.62	5,714.47	8,898.80	8,781.14	117.65	75.636	
5,200.00	4,678.26	4,645.26	4,645.26	40.18	80.12	94.47	-6,863.62	5,714.47	8,903.72	8,783.53	120.19	74.079	
5,300.00	4,761.96	4,728.96	4,728.96	41.28	81.58	94.77	-6,863.62	5,714.47	8,908.98	8,786.25	122.73	72.590	
5,400.00	4,845.66	4,812.66	4,812.66	42.37	83.04	95.06	-6,863.62	5,714.47	8,914.57	8,789.30	125.27	71.164	
5,500.00	4,929.35	4,903.65	4,896.35	43.47	84.62	95.35	-6,863.62	5,714.47	8,920.50	8,792.57	127.93	69.730	
5,600.00	5,013.05	4,980.05	4,980.05	44.57	85.96	95.65	-6,863.62	5,714.47	8,926.75	8,796.42	130.34	68.491	
5,700.00	5,096.75	5,042.00	5,042.00	45.67	87.04	95.86	-6,863.62	5,714.47	8,933.36	8,800.88	132.48	67.429	
5,800.00	5,180.45	5,042.00	5,042.00	46.77	87.04	95.86	-6,863.62	5,714.47	8,940.88	8,807.34	133.54	66.954	
5,900.00	5,264.14	5,042.00	5,042.00	47.87	87.04	95.86	-6,863.62	5,714.47	8,949.50	8,814.92	134.57	66.502	
6,000.00	5,347.84	5,042.00	5,042.00	48.97	87.04	95.86	-6,863.62	5,714.47	8,959.23	8,823.63	135.60	66.072	
6,100.00	5,431.54	5,042.00	5,042.00	50.07	87.04	95.86	-6,863.62	5,714.47	8,970.07	8,833.46	136.61	65.664	
6,200.00	5,515.23	5,042.00	5,042.00	51.17	87.04	95.86	-6,863.62	5,714.47	8,982.00	8,844.40	137.60	65.277	
6,300.00	5,598.93	5,042.00	5,042.00	52.27	87.04	95.86	-6,863.62	5,714.47	8,995.03	8,856.46	138.58	64.910	
6,400.00	5,682.63	5,042.00	5,042.00	53.38	87.04	95.86	-6,863.62	5,714.47	9,009.16	8,869.62	139.54	64.564	
6,500.00	5,766.33	5,042.00	5,042.00	54.48	87.04	95.86	-6,863.62	5,714.47	9,024.36	8,883.88	140.48	64.238	
6,600.00	5,850.02	5,042.00	5,042.00	55.58	87.04	95.86	-6,863.62	5,714.47	9,040.65	8,899.24	141.41	63.931	
6,700.00	5,933.72	5,042.00	5,042.00	56.68	87.04	95.86	-6,863.62	5,714.47	9,058.02	8,915.69	142.33	63.643	
6,800.00	6,017.42	5,042.00	5,042.00	57.79	87.04	95.86	-6,863.62	5,714.47	9,076.45	8,933.23	143.22	63.373	
6,900.00	6,101.12	5,042.00	5,042.00	58.89	87.04	95.86	-6,863.62	5,714.47	9,095.95	8,951.84	144.10	63.121	
7,000.00	6,184.81	5,042.00	5,042.00	59.99	87.04	95.86	-6,863.62	5,714.47	9,116.50	8,971.53	144.97	62.887	
7,100.00	6,268.51	5,042.00	5,042.00	61.10	87.04	95.86	-6,863.62	5,714.47	9,138.09	8,992.28	145.81	62.670	
7,200.00	6,352.21	5,042.00	5,042.00	62.20	87.04	95.86	-6,863.62	5,714.47	9,160.73	9,014.09	146.64	62.469	
7,300.00	6,435.90	5,042.00	5,042.00	63.31	87.04	95.86	-6,863.62	5,714.47	9,184.41	9,036.95	147.46	62.285	
7,400.00	6,519.60	5,042.00	5,042.00	64.41	87.04	95.86	-6,863.62	5,714.47	9,209.10	9,060.85	148.25	62.117	
7,500.00	6,603.30	5,042.00	5,042.00	65.51	87.04	95.86	-6,863.62	5,714.47	9,234.82	9,085.78	149.03	61.965	
7,600.00	6,687.00	5,042.00	5,042.00	66.62	87.04	95.86	-6,863.62	5,714.47	9,261.54	9,111.74	149.80	61.828	
7,700.00	6,770.69	5,042.00	5,042.00	67.72	87.04	95.86	-6,863.62	5,714.47	9,289.26	9,138.72	150.54	61.706	
7,800.00	6,854.39	5,042.00	5,042.00	68.83	87.04	95.86	-6,863.62	5,714.47	9,317.97	9,166.70	151.27	61.598	
7,900.00	6,938.09	5,042.00	5,042.00	69.93	87.04	95.86	-6,863.62	5,714.47	9,347.67	9,195.69	151.98	61.505	
7,933.18	6,965.86	5,042.00	5,042.00	70.30	87.04	95.86	-6,863.62	5,714.47	9,357.74	9,205.52	152.22	61.477	
7,950.00	6,980.00	5,042.00	5,042.00	70.49	87.04	93.74	-6,863.62	5,714.47	9,362.66	9,210.33	152.33	61.462	
8,000.00	7,022.68	5,042.00	5,042.00	71.01	87.04	86.65	-6,863.62	5,714.47	9,374.88	9,222.21	152.66	61.408	
8,050.00	7,066.06	5,042.00	5,042.00	71.51	87.04	78.53	-6,863.62	5,714.47	9,383.39	9,230.41	152.97	61.340	
8,100.00	7,109.82	5,042.00	5,042.00	71.97	87.04	69.71	-6,863.62	5,714.47	9,388.14	9,234.89	153.26	61.258	
8,150.00	7,153.63	5,042.00	5,042.00	72.38	87.04	60.69	-6,863.62	5,714.47	9,389.12	9,235.61	153.51	61.164	
8,200.00	7,197.14	5,042.00	5,042.00	72.74	87.04	51.95	-6,863.62	5,714.47	9,386.29	9,232.57	153.72	61.061	
8,250.00	7,240.04	5,042.00	5,042.00	73.05	87.04	43.89	-6,863.62	5,714.47	9,379.70	9,225.80	153.89	60.949	
8,300.00	7,281.99	5,042.00	5,042.00	73.31	87.04	36.67	-6,863.62	5,714.47	9,369.37	9,215.34	154.03	60.829	
8,350.00	7,322.67	5,042.00	5,042.00	73.52	87.04	30.31	-6,863.62	5,714.47	9,355.38	9,201.26	154.12	60.701	
8,400.00	7,361.77	5,042.00	5,042.00	73.68	87.04	24.72	-6,863.62	5,714.47	9,337.81	9,183.63	154.18	60.565	
8,450.00	7,399.01	5,042.00	5,042.00	73.78	87.04	19.75	-6,863.62	5,714.47	9,316.78	9,162.59	154.20	60.422	
8,500.00	7,434.08	5,042.00	5,042.00	73.85	87.04	15.24	-6,863.62	5,714.47	9,292.43	9,138.25	154.18	60.271	
8,550.00	7,466.74	5,042.00	5,042.00	73.87	87.04	11.03	-6,863.62	5,714.47	9,264.92	9,110.79	154.12	60.113	
8,600.00	7,496.72	5,042.00	5,042.00	73.85	87.04	6.97	-6,863.62	5,714.47	9,234.42	9,080.38	154.04	59.948	
8,650.00	7,523.80	5,042.00	5,042.00	73.79	87.04	2.89	-6,863.62	5,714.47	9,201.14	9,047.21	153.93	59.776	
8,700.00	7,547.77	5,042.00	5,042.00	73.70	87.04	-1.37	-6,863.62	5,714.47	9,165.31	9,011.52	153.79	59.596	
8,750.00	7,568.45	5,042.00	5,042.00	73.58	87.04	-6.01	-6,863.62	5,714.47	9,127.17	8,973.54	153.63	59.410	
8,800.00	7,585.69	5,042.00	5,042.00	73.43	87.04	-11.25	-6,863.62	5,714.47	9,086.99	8,933.53	153.45	59.216	
8,850.00	7,599.35	5,042.00	5,042.00	73.26	87.04	-17.35	-6,863.62	5,714.47	9,045.04	8,891.77	153.26	59.017	
8,900.00	7,609.33	5,042.00	5,042.00	73.07	87.04	-24.59	-6,863.62	5,714.47	9,001.61	8,848.55	153.06	58.811	
8,950.00	7,615.55	5,042.00	5,042.00	72.87	87.04	-33.23	-6,863.62	5,714.47	8,957.04	8,804.19	152.85	58.599	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	5,042.00	5,042.00	72.65	87.04	-43.33	-6,863.62	5,714.47	8,911.63	8,758.99	152.64	58.383	
9,006.60	7,618.00	5,042.00	5,042.00	72.62	87.04	-44.76	-6,863.62	5,714.47	8,905.59	8,752.97	152.61	58.354	
9,100.00	7,618.00	5,042.00	5,042.00	72.22	87.04	-44.76	-6,863.62	5,714.47	8,820.15	8,667.94	152.21	57.946	
9,200.00	7,618.00	5,042.00	5,042.00	71.80	87.04	-44.76	-6,863.62	5,714.47	8,728.86	8,577.08	151.78	57.510	
9,300.00	7,618.00	5,042.00	5,042.00	71.41	87.04	-44.76	-6,863.62	5,714.47	8,637.77	8,486.43	151.34	57.075	
9,400.00	7,618.00	5,042.00	5,042.00	71.04	87.04	-44.76	-6,863.62	5,714.47	8,546.87	8,395.97	150.90	56.641	
9,500.00	7,618.00	5,042.00	5,042.00	70.68	87.04	-44.76	-6,863.62	5,714.47	8,456.18	8,305.73	150.45	56.208	
9,600.00	7,618.00	5,042.00	5,042.00	70.35	87.04	-44.76	-6,863.62	5,714.47	8,365.70	8,215.71	149.99	55.776	
9,700.00	7,618.00	5,042.00	5,042.00	70.04	87.04	-44.76	-6,863.62	5,714.47	8,275.43	8,125.91	149.53	55.345	
9,800.00	7,618.00	5,042.00	5,042.00	69.75	87.04	-44.76	-6,863.62	5,714.47	8,185.40	8,036.34	149.06	54.914	
9,900.00	7,618.00	5,042.00	5,042.00	69.47	87.04	-44.76	-6,863.62	5,714.47	8,095.60	7,947.01	148.58	54.485	
10,000.00	7,618.00	5,042.00	5,042.00	69.22	87.04	-44.76	-6,863.62	5,714.47	8,006.04	7,857.93	148.10	54.057	
10,100.00	7,618.00	5,042.00	5,042.00	68.99	87.04	-44.76	-6,863.62	5,714.47	7,916.73	7,769.11	147.62	53.629	
10,200.00	7,618.00	5,042.00	5,042.00	68.78	87.04	-44.76	-6,863.62	5,714.47	7,827.68	7,680.55	147.13	53.203	
10,300.00	7,618.00	5,042.00	5,042.00	68.59	87.04	-44.76	-6,863.62	5,714.47	7,738.90	7,592.26	146.64	52.776	
10,400.00	7,618.00	5,042.00	5,042.00	68.42	87.04	-44.76	-6,863.62	5,714.47	7,650.39	7,504.25	146.14	52.351	
10,500.00	7,618.00	5,042.00	5,042.00	68.28	87.04	-44.76	-6,863.62	5,714.47	7,562.17	7,416.54	145.63	51.926	
10,600.00	7,618.00	5,042.00	5,042.00	68.16	87.04	-44.76	-6,863.62	5,714.47	7,474.25	7,329.12	145.13	51.502	
10,700.00	7,618.00	5,042.00	5,042.00	68.06	87.04	-44.76	-6,863.62	5,714.47	7,386.63	7,242.01	144.61	51.078	
10,800.00	7,618.00	5,042.00	5,042.00	67.99	87.04	-44.76	-6,863.62	5,714.47	7,299.33	7,155.23	144.10	50.654	
10,900.00	7,618.00	5,042.00	5,042.00	67.95	87.04	-44.76	-6,863.62	5,714.47	7,212.36	7,068.78	143.58	50.231	
11,000.00	7,618.00	5,042.00	5,042.00	67.95	87.04	-44.76	-6,863.62	5,714.47	7,125.74	6,982.67	143.07	49.807	
11,100.00	7,618.00	5,042.00	5,042.00	67.97	87.04	-44.76	-6,863.62	5,714.47	7,039.47	6,896.92	142.55	49.383	
11,200.00	7,618.00	5,042.00	5,042.00	68.04	87.04	-44.76	-6,863.62	5,714.47	6,953.56	6,811.53	142.03	48.959	
11,300.00	7,618.00	5,042.00	5,042.00	68.15	87.04	-44.76	-6,863.62	5,714.47	6,868.04	6,726.53	141.51	48.534	
11,400.00	7,618.00	5,042.00	5,042.00	68.30	87.04	-44.76	-6,863.62	5,714.47	6,782.91	6,641.92	140.99	48.109	
11,500.00	7,618.00	5,042.00	5,042.00	68.50	87.04	-44.76	-6,863.62	5,714.47	6,698.20	6,557.72	140.48	47.682	
11,600.00	7,618.00	5,042.00	5,042.00	68.75	87.04	-44.76	-6,863.62	5,714.47	6,613.91	6,473.95	139.97	47.254	
11,700.00	7,618.00	5,042.00	5,042.00	69.06	87.04	-44.76	-6,863.62	5,714.47	6,530.07	6,390.61	139.46	46.824	
11,800.00	7,618.00	5,042.00	5,042.00	69.44	87.04	-44.76	-6,863.62	5,714.47	6,446.68	6,307.72	138.96	46.393	
11,900.00	7,618.00	5,042.00	5,042.00	69.88	87.04	-44.76	-6,863.62	5,714.47	6,363.78	6,225.31	138.47	45.959	
12,000.00	7,618.00	5,042.00	5,042.00	70.39	87.04	-44.76	-6,863.62	5,714.47	6,281.37	6,143.38	137.99	45.522	
12,100.00	7,618.00	5,042.00	5,042.00	70.97	87.04	-44.76	-6,863.62	5,714.47	6,199.48	6,061.97	137.52	45.082	
12,200.00	7,618.00	5,042.00	5,042.00	71.63	87.04	-44.76	-6,863.62	5,714.47	6,118.13	5,981.07	137.06	44.639	
12,300.00	7,618.00	5,042.00	5,042.00	72.35	87.04	-44.76	-6,863.62	5,714.47	6,037.34	5,900.72	136.62	44.191	
12,400.00	7,618.00	5,042.00	5,042.00	73.15	87.04	-44.76	-6,863.62	5,714.47	5,957.13	5,820.93	136.20	43.739	
12,500.00	7,618.00	5,042.00	5,042.00	74.01	87.04	-44.76	-6,863.62	5,714.47	5,877.53	5,741.73	135.80	43.282	
12,600.00	7,618.00	5,042.00	5,042.00	74.93	87.04	-44.76	-6,863.62	5,714.47	5,798.56	5,663.14	135.42	42.819	
12,700.00	7,618.00	5,042.00	5,042.00	75.91	87.04	-44.76	-6,863.62	5,714.47	5,720.25	5,585.18	135.07	42.350	
12,800.00	7,618.00	5,042.00	5,042.00	76.95	87.04	-44.76	-6,863.62	5,714.47	5,642.62	5,507.87	134.75	41.875	
12,900.00	7,618.00	5,042.00	5,042.00	78.04	87.04	-44.76	-6,863.62	5,714.47	5,565.71	5,431.25	134.46	41.392	
13,000.00	7,618.00	5,042.00	5,042.00	79.16	87.04	-44.76	-6,863.62	5,714.47	5,489.54	5,355.33	134.21	40.902	
13,100.00	7,618.00	5,042.00	5,042.00	80.33	87.04	-44.76	-6,863.62	5,714.47	5,414.15	5,280.15	134.00	40.404	
13,200.00	7,618.00	5,042.00	5,042.00	81.54	87.04	-44.76	-6,863.62	5,714.47	5,339.57	5,205.73	133.83	39.897	
13,300.00	7,618.00	5,042.00	5,042.00	82.78	87.04	-44.76	-6,863.62	5,714.47	5,265.83	5,132.11	133.72	39.381	
13,400.00	7,618.00	5,042.00	5,042.00	84.05	87.04	-44.76	-6,863.62	5,714.47	5,192.97	5,059.32	133.65	38.856	
13,500.00	7,618.00	5,042.00	5,042.00	85.35	87.04	-44.76	-6,863.62	5,714.47	5,121.02	4,987.38	133.64	38.321	
13,600.00	7,618.00	5,042.00	5,042.00	86.67	87.04	-44.76	-6,863.62	5,714.47	5,050.03	4,916.35	133.68	37.776	
13,700.00	7,618.00	5,042.00	5,042.00	88.02	87.04	-44.76	-6,863.62	5,714.47	4,980.03	4,846.24	133.79	37.222	
13,800.00	7,618.00	5,042.00	5,042.00	89.38	87.04	-44.76	-6,863.62	5,714.47	4,911.08	4,777.11	133.97	36.659	
13,900.00	7,618.00	5,042.00	5,042.00	90.77	87.04	-44.76	-6,863.62	5,714.47	4,843.20	4,708.99	134.21	36.086	
14,000.00	7,618.00	5,042.00	5,042.00	92.17	87.04	-44.76	-6,863.62	5,714.47	4,776.46	4,641.93	134.53	35.504	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,618.00	5,042.00	5,042.00	93.59	87.04	-44.76	-6,863.62	5,714.47	4,710.89	4,575.97	134.93	34.914	
14,200.00	7,618.00	5,042.00	5,042.00	95.02	87.04	-44.76	-6,863.62	5,714.47	4,646.55	4,511.15	135.40	34.317	
14,300.00	7,618.00	5,042.00	5,042.00	96.47	87.04	-44.76	-6,863.62	5,714.47	4,583.49	4,447.54	135.96	33.712	
14,400.00	7,618.00	5,042.00	5,042.00	97.93	87.04	-44.76	-6,863.62	5,714.47	4,521.77	4,385.17	136.60	33.103	
14,500.00	7,618.00	5,042.00	5,042.00	99.41	87.04	-44.76	-6,863.62	5,714.47	4,461.42	4,324.10	137.32	32.489	
14,600.00	7,618.00	5,042.00	5,042.00	100.89	87.04	-44.76	-6,863.62	5,714.47	4,402.53	4,264.39	138.13	31.871	
14,700.00	7,618.00	5,042.00	5,042.00	102.38	87.04	-44.76	-6,863.62	5,714.47	4,345.14	4,206.10	139.03	31.252	
14,800.00	7,618.00	5,042.00	5,042.00	103.89	87.04	-44.76	-6,863.62	5,714.47	4,289.31	4,149.29	140.02	30.633	
14,900.00	7,618.00	5,042.00	5,042.00	105.40	87.04	-44.76	-6,863.62	5,714.47	4,235.10	4,094.01	141.10	30.016	
15,000.00	7,618.00	5,042.00	5,042.00	106.92	87.04	-44.76	-6,863.62	5,714.47	4,182.59	4,040.33	142.26	29.401	
15,100.00	7,618.00	5,042.00	5,042.00	108.45	87.04	-44.76	-6,863.62	5,714.47	4,131.83	3,988.32	143.51	28.791	
15,200.00	7,618.00	5,042.00	5,042.00	109.99	87.04	-44.76	-6,863.62	5,714.47	4,082.88	3,938.04	144.85	28.188	
15,300.00	7,618.00	5,042.00	5,042.00	111.54	87.04	-44.76	-6,863.62	5,714.47	4,035.83	3,889.56	146.27	27.592	
15,400.00	7,618.00	5,042.00	5,042.00	113.09	87.04	-44.76	-6,863.62	5,714.47	3,990.72	3,842.95	147.77	27.007	
15,500.00	7,618.00	5,042.00	5,042.00	114.65	87.04	-44.76	-6,863.62	5,714.47	3,947.63	3,798.28	149.35	26.432	
15,600.00	7,618.00	5,042.00	5,042.00	116.21	87.04	-44.76	-6,863.62	5,714.47	3,906.63	3,755.62	151.01	25.870	
15,700.00	7,618.00	5,042.00	5,042.00	117.78	87.04	-44.76	-6,863.62	5,714.47	3,867.78	3,715.04	152.74	25.323	
15,800.00	7,618.00	5,042.00	5,042.00	119.36	87.04	-44.76	-6,863.62	5,714.47	3,831.14	3,676.60	154.54	24.790	
15,900.00	7,618.00	5,042.00	5,042.00	120.94	87.04	-44.76	-6,863.62	5,714.47	3,796.79	3,640.38	156.41	24.275	
16,000.00	7,618.00	5,042.00	5,042.00	122.53	87.04	-44.76	-6,863.62	5,714.47	3,764.77	3,606.43	158.34	23.777	
16,100.00	7,618.00	5,042.00	5,042.00	124.12	87.04	-44.76	-6,863.62	5,714.47	3,735.17	3,574.84	160.33	23.297	
16,200.00	7,618.00	5,042.00	5,042.00	125.72	87.04	-44.76	-6,863.62	5,714.47	3,708.02	3,545.66	162.37	22.837	
16,300.00	7,618.00	5,042.00	5,042.00	127.32	87.04	-44.76	-6,863.62	5,714.47	3,683.39	3,518.94	164.45	22.398	
16,400.00	7,618.00	5,042.00	5,042.00	128.93	87.04	-44.76	-6,863.62	5,714.47	3,661.33	3,494.75	166.58	21.980	
16,500.00	7,618.00	5,042.00	5,042.00	130.54	87.04	-44.76	-6,863.62	5,714.47	3,641.88	3,473.14	168.74	21.583	
16,600.00	7,618.00	5,042.00	5,042.00	132.15	87.04	-44.76	-6,863.62	5,714.47	3,625.08	3,454.15	170.93	21.208	
16,700.00	7,618.00	5,042.00	5,042.00	133.77	87.04	-44.76	-6,863.62	5,714.47	3,610.98	3,437.83	173.15	20.855	
16,800.00	7,618.00	5,042.00	5,042.00	135.39	87.04	-44.76	-6,863.62	5,714.47	3,599.60	3,424.22	175.38	20.525	
16,900.00	7,618.00	5,042.00	5,042.00	137.01	87.04	-44.76	-6,863.62	5,714.47	3,590.97	3,413.35	177.62	20.217	
17,000.00	7,618.00	5,042.00	5,042.00	138.64	87.04	-44.76	-6,863.62	5,714.47	3,585.11	3,405.24	179.87	19.932	
17,100.00	7,618.00	5,042.00	5,042.00	140.27	87.04	-44.76	-6,863.62	5,714.47	3,582.03	3,399.93	182.10	19.670	
17,160.26	7,618.00	5,042.00	5,042.00	141.26	87.04	-44.76	-6,863.62	5,714.47	3,581.53	3,398.08	183.45	19.523	CC
17,200.00	7,618.00	5,042.00	5,042.00	141.91	87.04	-44.76	-6,863.62	5,714.47	3,581.75	3,397.41	184.33	19.431	ES
17,300.00	7,618.00	5,042.00	5,042.00	143.55	87.04	-44.76	-6,863.62	5,714.47	3,584.25	3,397.71	186.54	19.214	
17,400.00	7,618.00	5,042.00	5,042.00	145.19	87.04	-44.76	-6,863.62	5,714.47	3,589.54	3,400.81	188.73	19.020	
17,500.00	7,618.00	5,042.00	5,042.00	146.83	87.04	-44.76	-6,863.62	5,714.47	3,597.60	3,406.72	190.88	18.847	
17,600.00	7,618.00	5,042.00	5,042.00	148.48	87.04	-44.76	-6,863.62	5,714.47	3,608.42	3,415.42	193.00	18.697	
17,700.00	7,618.00	5,042.00	5,042.00	150.13	87.04	-44.76	-6,863.62	5,714.47	3,621.97	3,426.90	195.07	18.567	
17,800.00	7,618.00	5,042.00	5,042.00	151.78	87.04	-44.76	-6,863.62	5,714.47	3,638.21	3,441.12	197.09	18.459	
17,900.00	7,618.00	5,042.00	5,042.00	153.43	87.04	-44.76	-6,863.62	5,714.47	3,657.12	3,458.06	199.06	18.372	
18,000.00	7,618.00	5,042.00	5,042.00	155.09	87.04	-44.76	-6,863.62	5,714.47	3,678.65	3,477.69	200.97	18.305	
18,100.00	7,618.00	5,042.00	5,042.00	156.75	87.04	-44.76	-6,863.62	5,714.47	3,702.76	3,499.95	202.81	18.257	
18,200.00	7,618.00	5,042.00	5,042.00	158.41	87.04	-44.76	-6,863.62	5,714.47	3,729.39	3,524.81	204.58	18.229	
18,300.00	7,618.00	5,042.00	5,042.00	160.07	87.04	-44.76	-6,863.62	5,714.47	3,758.50	3,552.21	206.29	18.220	SF
18,400.00	7,618.00	5,042.00	5,042.00	161.74	87.04	-44.76	-6,863.62	5,714.47	3,790.02	3,582.10	207.92	18.228	
18,500.00	7,618.00	5,042.00	5,042.00	163.41	87.04	-44.76	-6,863.62	5,714.47	3,823.90	3,614.42	209.48	18.254	
18,600.00	7,618.00	5,042.00	5,042.00	165.08	87.04	-44.76	-6,863.62	5,714.47	3,860.07	3,649.11	210.96	18.298	
18,700.00	7,618.00	5,042.00	5,042.00	166.75	87.04	-44.76	-6,863.62	5,714.47	3,898.48	3,686.11	212.37	18.357	
18,711.30	7,618.00	5,042.00	5,042.00	166.94	87.04	-44.76	-6,863.62	5,714.47	3,902.95	3,690.44	212.52	18.365	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	145.08	-8,182.35	5,711.98	9,978.91				
100.00	100.00	65.00	65.00	0.13	0.53	145.08	-8,182.35	5,711.98	9,978.85	9,978.18	0.67	N/A	
200.00	200.00	165.00	165.00	0.49	1.95	145.08	-8,182.35	5,711.98	9,978.85	9,976.40	2.45	4,076.881	
300.00	300.00	265.00	265.00	0.85	3.70	145.08	-8,182.35	5,711.98	9,978.85	9,974.30	4.55	2,192.446	
400.00	400.00	365.00	365.00	1.21	5.45	145.08	-8,182.35	5,711.98	9,978.85	9,972.20	6.66	1,499.391	
500.00	500.00	465.00	465.00	1.57	7.19	145.08	-8,182.35	5,711.98	9,978.85	9,970.09	8.76	1,139.259	
600.00	600.00	565.00	565.00	1.93	8.94	145.08	-8,182.35	5,711.98	9,978.85	9,967.99	10.86	918.620	
700.00	700.00	665.00	665.00	2.29	10.68	145.08	-8,182.35	5,711.98	9,978.85	9,965.89	12.97	769.577	
800.00	800.00	765.00	765.00	2.64	12.43	145.08	-8,182.35	5,711.98	9,978.85	9,963.78	15.07	662.146	
900.00	900.00	865.00	865.00	3.00	14.17	145.08	-8,182.35	5,711.98	9,978.85	9,961.68	17.17	581.035	
1,000.00	999.98	964.98	964.98	3.36	15.92	87.90	-8,182.35	5,711.98	9,978.79	9,959.51	19.27	517.736	
1,100.00	1,099.84	1,064.84	1,064.84	3.71	17.66	87.94	-8,182.35	5,711.98	9,978.60	9,957.23	21.37	466.947	
1,200.00	1,199.45	1,164.45	1,164.45	4.07	19.40	87.99	-8,182.35	5,711.98	9,978.29	9,954.82	23.47	425.203	
1,300.00	1,298.70	1,263.70	1,263.70	4.44	21.13	88.07	-8,182.35	5,711.98	9,977.86	9,952.30	25.57	390.256	
1,400.00	1,397.47	1,362.47	1,362.47	4.82	22.85	88.17	-8,182.35	5,711.98	9,977.35	9,949.67	27.67	360.535	
1,500.00	1,495.62	1,460.62	1,460.62	5.22	24.57	88.29	-8,182.35	5,711.98	9,976.74	9,946.96	29.79	334.911	
1,600.00	1,593.06	1,558.06	1,558.06	5.65	26.27	88.43	-8,182.35	5,711.98	9,976.08	9,944.17	31.92	312.556	
1,700.00	1,689.64	1,654.64	1,654.64	6.11	27.95	88.59	-8,182.35	5,711.98	9,975.38	9,941.32	34.06	292.852	
1,800.00	1,785.27	1,750.27	1,750.27	6.61	29.62	88.76	-8,182.35	5,711.98	9,974.68	9,938.45	36.23	275.327	
1,900.00	1,879.82	1,844.82	1,844.82	7.15	31.27	88.95	-8,182.35	5,711.98	9,973.99	9,935.57	38.42	259.618	
2,000.00	1,973.17	1,938.17	1,938.17	7.73	32.90	89.16	-8,182.35	5,711.98	9,973.35	9,932.72	40.63	245.442	
2,100.00	2,065.21	2,030.21	2,030.21	8.37	34.51	89.37	-8,182.35	5,711.98	9,972.81	9,929.93	42.88	232.575	
2,200.00	2,155.84	2,120.84	2,120.84	9.07	36.09	89.60	-8,182.35	5,711.98	9,972.39	9,927.24	45.16	220.836	
2,300.00	2,244.94	2,209.94	2,209.94	9.82	37.65	89.84	-8,182.35	5,711.98	9,972.14	9,924.68	47.47	210.081	
2,366.42	2,303.21	2,268.21	2,268.21	10.37	38.66	90.00	-8,182.35	5,711.98	9,972.09	9,923.07	49.03	203.396	
2,400.00	2,332.39	2,302.61	2,297.39	10.64	39.26	90.08	-8,182.35	5,711.98	9,972.11	9,922.20	49.90	199.826	
2,500.00	2,418.11	2,383.11	2,383.11	11.53	40.67	90.33	-8,182.35	5,711.98	9,972.33	9,920.13	52.19	191.069	
2,558.91	2,467.74	2,432.74	2,432.74	12.08	41.53	90.48	-8,182.35	5,711.98	9,972.59	9,918.98	53.61	186.024	
2,600.00	2,502.13	2,467.13	2,467.13	12.47	42.13	90.59	-8,182.35	5,711.98	9,972.84	9,918.24	54.60	182.640	
2,700.00	2,585.83	2,550.83	2,550.83	13.45	43.60	90.85	-8,182.35	5,711.98	9,973.67	9,916.62	57.04	174.846	
2,800.00	2,669.53	2,634.53	2,634.53	14.44	45.06	91.11	-8,182.35	5,711.98	9,974.79	9,915.29	59.50	167.644	
2,900.00	2,753.22	2,718.22	2,718.22	15.46	46.52	91.38	-8,182.35	5,711.98	9,976.21	9,914.24	61.97	160.978	
3,000.00	2,836.92	2,801.92	2,801.92	16.48	47.98	91.64	-8,182.35	5,711.98	9,977.93	9,913.47	64.46	154.800	
3,100.00	2,920.62	2,885.62	2,885.62	17.52	49.44	91.90	-8,182.35	5,711.98	9,979.95	9,913.00	66.95	149.063	
3,200.00	3,004.32	2,969.32	2,969.32	18.56	50.90	92.17	-8,182.35	5,711.98	9,982.27	9,912.82	69.45	143.726	
3,300.00	3,088.01	3,053.01	3,053.01	19.61	52.36	92.43	-8,182.35	5,711.98	9,984.89	9,912.93	71.96	138.752	
3,400.00	3,171.71	3,136.71	3,136.71	20.67	53.82	92.69	-8,182.35	5,711.98	9,987.81	9,913.34	74.48	134.107	
3,500.00	3,255.41	3,220.41	3,220.41	21.73	55.28	92.95	-8,182.35	5,711.98	9,991.03	9,914.04	76.99	129.762	
3,600.00	3,339.10	3,304.10	3,304.10	22.80	56.74	93.22	-8,182.35	5,711.98	9,994.55	9,915.03	79.52	125.691	
3,700.00	3,422.80	3,387.80	3,387.80	23.87	58.20	93.48	-8,182.35	5,711.98	9,998.36	9,916.32	82.04	121.869	
9,200.00	7,618.00	5,020.00	5,020.00	71.80	86.69	-44.56	-8,182.35	5,711.98	9,951.84	9,799.22	152.62	65.208	
9,300.00	7,618.00	5,020.00	5,020.00	71.41	86.69	-44.56	-8,182.35	5,711.98	9,858.66	9,706.41	152.25	64.753	
9,400.00	7,618.00	5,020.00	5,020.00	71.04	86.69	-44.56	-8,182.35	5,711.98	9,765.63	9,613.74	151.88	64.298	
9,500.00	7,618.00	5,020.00	5,020.00	70.68	86.69	-44.56	-8,182.35	5,711.98	9,672.73	9,521.22	151.51	63.843	
9,600.00	7,618.00	5,020.00	5,020.00	70.35	86.69	-44.56	-8,182.35	5,711.98	9,579.97	9,428.84	151.13	63.389	
9,700.00	7,618.00	5,020.00	5,020.00	70.04	86.69	-44.56	-8,182.35	5,711.98	9,487.36	9,336.62	150.75	62.936	
9,800.00	7,618.00	5,020.00	5,020.00	69.75	86.69	-44.56	-8,182.35	5,711.98	9,394.91	9,244.55	150.36	62.483	
9,900.00	7,618.00	5,020.00	5,020.00	69.47	86.69	-44.56	-8,182.35	5,711.98	9,302.60	9,152.63	149.97	62.030	
10,000.00	7,618.00	5,020.00	5,020.00	69.22	86.69	-44.56	-8,182.35	5,711.98	9,210.46	9,060.89	149.58	61.577	
10,100.00	7,618.00	5,020.00	5,020.00	68.99	86.69	-44.56	-8,182.35	5,711.98	9,118.49	8,969.31	149.18	61.125	
10,200.00	7,618.00	5,020.00	5,020.00	68.78	86.69	-44.56	-8,182.35	5,711.98	9,026.69	8,877.91	148.77	60.673	
10,300.00	7,618.00	5,020.00	5,020.00	68.59	86.69	-44.56	-8,182.35	5,711.98	8,935.06	8,786.69	148.37	60.222	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,400.00	7,618.00	5,020.00	5,020.00	68.42	86.69	-44.56	-8,182.35	5,711.98	8,843.61	8,695.65	147.96	59.771	
10,500.00	7,618.00	5,020.00	5,020.00	68.28	86.69	-44.56	-8,182.35	5,711.98	8,752.35	8,604.81	147.55	59.319	
10,600.00	7,618.00	5,020.00	5,020.00	68.16	86.69	-44.56	-8,182.35	5,711.98	8,661.29	8,514.16	147.13	58.868	
10,700.00	7,618.00	5,020.00	5,020.00	68.06	86.69	-44.56	-8,182.35	5,711.98	8,570.42	8,423.71	146.71	58.417	
10,800.00	7,618.00	5,020.00	5,020.00	67.99	86.69	-44.56	-8,182.35	5,711.98	8,479.76	8,333.47	146.29	57.966	
10,900.00	7,618.00	5,020.00	5,020.00	67.95	86.69	-44.56	-8,182.35	5,711.98	8,389.31	8,243.44	145.86	57.515	
11,000.00	7,618.00	5,020.00	5,020.00	67.95	86.69	-44.56	-8,182.35	5,711.98	8,299.08	8,153.64	145.44	57.063	
11,100.00	7,618.00	5,020.00	5,020.00	67.97	86.69	-44.56	-8,182.35	5,711.98	8,209.07	8,064.06	145.01	56.611	
11,200.00	7,618.00	5,020.00	5,020.00	68.04	86.69	-44.56	-8,182.35	5,711.98	8,119.30	7,974.73	144.58	56.159	
11,300.00	7,618.00	5,020.00	5,020.00	68.15	86.69	-44.56	-8,182.35	5,711.98	8,029.77	7,885.63	144.15	55.706	
11,400.00	7,618.00	5,020.00	5,020.00	68.30	86.69	-44.56	-8,182.35	5,711.98	7,940.50	7,796.78	143.71	55.252	
11,500.00	7,618.00	5,020.00	5,020.00	68.50	86.69	-44.56	-8,182.35	5,711.98	7,851.48	7,708.20	143.28	54.798	
11,600.00	7,618.00	5,020.00	5,020.00	68.75	86.69	-44.56	-8,182.35	5,711.98	7,762.72	7,619.88	142.85	54.342	
11,700.00	7,618.00	5,020.00	5,020.00	69.06	86.69	-44.56	-8,182.35	5,711.98	7,674.25	7,531.83	142.42	53.885	
11,800.00	7,618.00	5,020.00	5,020.00	69.44	86.69	-44.56	-8,182.35	5,711.98	7,586.06	7,444.07	141.99	53.427	
11,900.00	7,618.00	5,020.00	5,020.00	69.88	86.69	-44.56	-8,182.35	5,711.98	7,498.17	7,356.60	141.56	52.967	
12,000.00	7,618.00	5,020.00	5,020.00	70.39	86.69	-44.56	-8,182.35	5,711.98	7,410.58	7,269.44	141.14	52.506	
12,100.00	7,618.00	5,020.00	5,020.00	70.97	86.69	-44.56	-8,182.35	5,711.98	7,323.31	7,182.59	140.72	52.042	
12,200.00	7,618.00	5,020.00	5,020.00	71.63	86.69	-44.56	-8,182.35	5,711.98	7,236.37	7,096.07	140.31	51.576	
12,300.00	7,618.00	5,020.00	5,020.00	72.35	86.69	-44.56	-8,182.35	5,711.98	7,149.78	7,009.88	139.90	51.107	
12,400.00	7,618.00	5,020.00	5,020.00	73.15	86.69	-44.56	-8,182.35	5,711.98	7,063.53	6,924.04	139.50	50.636	
12,500.00	7,618.00	5,020.00	5,020.00	74.01	86.69	-44.56	-8,182.35	5,711.98	6,977.66	6,838.55	139.11	50.161	
12,600.00	7,618.00	5,020.00	5,020.00	74.93	86.69	-44.56	-8,182.35	5,711.98	6,892.16	6,753.44	138.73	49.682	
12,700.00	7,618.00	5,020.00	5,020.00	75.91	86.69	-44.56	-8,182.35	5,711.98	6,807.06	6,668.71	138.36	49.200	
12,800.00	7,618.00	5,020.00	5,020.00	76.95	86.69	-44.56	-8,182.35	5,711.98	6,722.37	6,584.37	138.00	48.713	
12,900.00	7,618.00	5,020.00	5,020.00	78.04	86.69	-44.56	-8,182.35	5,711.98	6,638.11	6,500.45	137.66	48.221	
13,000.00	7,618.00	5,020.00	5,020.00	79.16	86.69	-44.56	-8,182.35	5,711.98	6,554.29	6,416.95	137.34	47.725	
13,100.00	7,618.00	5,020.00	5,020.00	80.33	86.69	-44.56	-8,182.35	5,711.98	6,470.93	6,333.90	137.03	47.222	
13,200.00	7,618.00	5,020.00	5,020.00	81.54	86.69	-44.56	-8,182.35	5,711.98	6,388.05	6,251.30	136.75	46.714	
13,300.00	7,618.00	5,020.00	5,020.00	82.78	86.69	-44.56	-8,182.35	5,711.98	6,305.66	6,169.17	136.49	46.199	
13,400.00	7,618.00	5,020.00	5,020.00	84.05	86.69	-44.56	-8,182.35	5,711.98	6,223.79	6,087.53	136.25	45.678	
13,500.00	7,618.00	5,020.00	5,020.00	85.35	86.69	-44.56	-8,182.35	5,711.98	6,142.45	6,006.41	136.05	45.149	
13,600.00	7,618.00	5,020.00	5,020.00	86.67	86.69	-44.56	-8,182.35	5,711.98	6,061.68	5,925.80	135.87	44.613	
13,700.00	7,618.00	5,020.00	5,020.00	88.02	86.69	-44.56	-8,182.35	5,711.98	5,981.48	5,845.75	135.73	44.068	
13,800.00	7,618.00	5,020.00	5,020.00	89.38	86.69	-44.56	-8,182.35	5,711.98	5,901.89	5,766.27	135.63	43.515	
13,900.00	7,618.00	5,020.00	5,020.00	90.77	86.69	-44.56	-8,182.35	5,711.98	5,822.93	5,687.37	135.56	42.954	
14,000.00	7,618.00	5,020.00	5,020.00	92.17	86.69	-44.56	-8,182.35	5,711.98	5,744.63	5,609.09	135.54	42.383	
14,100.00	7,618.00	5,020.00	5,020.00	93.59	86.69	-44.56	-8,182.35	5,711.98	5,667.01	5,531.44	135.56	41.803	
14,200.00	7,618.00	5,020.00	5,020.00	95.02	86.69	-44.56	-8,182.35	5,711.98	5,590.09	5,454.46	135.64	41.214	
14,300.00	7,618.00	5,020.00	5,020.00	96.47	86.69	-44.56	-8,182.35	5,711.98	5,513.92	5,378.16	135.76	40.616	
14,400.00	7,618.00	5,020.00	5,020.00	97.93	86.69	-44.56	-8,182.35	5,711.98	5,438.53	5,302.59	135.94	40.008	
14,500.00	7,618.00	5,020.00	5,020.00	99.41	86.69	-44.56	-8,182.35	5,711.98	5,363.93	5,227.76	136.17	39.391	
14,600.00	7,618.00	5,020.00	5,020.00	100.89	86.69	-44.56	-8,182.35	5,711.98	5,290.18	5,153.71	136.47	38.765	
14,700.00	7,618.00	5,020.00	5,020.00	102.38	86.69	-44.56	-8,182.35	5,711.98	5,217.29	5,080.47	136.83	38.130	
14,800.00	7,618.00	5,020.00	5,020.00	103.89	86.69	-44.56	-8,182.35	5,711.98	5,145.32	5,008.07	137.26	37.487	
14,900.00	7,618.00	5,020.00	5,020.00	105.40	86.69	-44.56	-8,182.35	5,711.98	5,074.30	4,936.55	137.75	36.837	
15,000.00	7,618.00	5,020.00	5,020.00	106.92	86.69	-44.56	-8,182.35	5,711.98	5,004.28	4,865.96	138.32	36.180	
15,100.00	7,618.00	5,020.00	5,020.00	108.45	86.69	-44.56	-8,182.35	5,711.98	4,935.28	4,796.32	138.96	35.517	
15,200.00	7,618.00	5,020.00	5,020.00	109.99	86.69	-44.56	-8,182.35	5,711.98	4,867.36	4,727.69	139.67	34.849	
15,300.00	7,618.00	5,020.00	5,020.00	111.54	86.69	-44.56	-8,182.35	5,711.98	4,800.56	4,660.10	140.46	34.177	
15,400.00	7,618.00	5,020.00	5,020.00	113.09	86.69	-44.56	-8,182.35	5,711.98	4,734.93	4,593.60	141.33	33.503	
15,500.00	7,618.00	5,020.00	5,020.00	114.65	86.69	-44.56	-8,182.35	5,711.98	4,670.52	4,528.24	142.28	32.827	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,600.00	7,618.00	5,020.00	5,020.00	116.21	86.69	-44.56	-8,182.35	5,711.98	4,607.38	4,464.08	143.31	32.150	
15,700.00	7,618.00	5,020.00	5,020.00	117.78	86.69	-44.56	-8,182.35	5,711.98	4,545.57	4,401.15	144.42	31.475	
15,800.00	7,618.00	5,020.00	5,020.00	119.36	86.69	-44.56	-8,182.35	5,711.98	4,485.13	4,339.52	145.61	30.803	
15,900.00	7,618.00	5,020.00	5,020.00	120.94	86.69	-44.56	-8,182.35	5,711.98	4,426.13	4,279.25	146.88	30.134	
16,000.00	7,618.00	5,020.00	5,020.00	122.53	86.69	-44.56	-8,182.35	5,711.98	4,368.61	4,220.38	148.23	29.472	
16,100.00	7,618.00	5,020.00	5,020.00	124.12	86.69	-44.56	-8,182.35	5,711.98	4,312.66	4,162.99	149.66	28.816	
16,200.00	7,618.00	5,020.00	5,020.00	125.72	86.69	-44.56	-8,182.35	5,711.98	4,258.31	4,107.14	151.17	28.169	
16,300.00	7,618.00	5,020.00	5,020.00	127.32	86.69	-44.56	-8,182.35	5,711.98	4,205.64	4,052.88	152.76	27.531	
16,400.00	7,618.00	5,020.00	5,020.00	128.93	86.69	-44.56	-8,182.35	5,711.98	4,154.71	4,000.29	154.42	26.905	
16,500.00	7,618.00	5,020.00	5,020.00	130.54	86.69	-44.56	-8,182.35	5,711.98	4,105.58	3,949.43	156.16	26.292	
16,600.00	7,618.00	5,020.00	5,020.00	132.15	86.69	-44.56	-8,182.35	5,711.98	4,058.33	3,900.36	157.96	25.692	
16,700.00	7,618.00	5,020.00	5,020.00	133.77	86.69	-44.56	-8,182.35	5,711.98	4,013.01	3,853.17	159.84	25.107	
16,800.00	7,618.00	5,020.00	5,020.00	135.39	86.69	-44.56	-8,182.35	5,711.98	3,969.69	3,807.91	161.78	24.538	
16,900.00	7,618.00	5,020.00	5,020.00	137.01	86.69	-44.56	-8,182.35	5,711.98	3,928.44	3,764.66	163.78	23.986	
17,000.00	7,618.00	5,020.00	5,020.00	138.64	86.69	-44.56	-8,182.35	5,711.98	3,889.32	3,723.48	165.84	23.453	
17,100.00	7,618.00	5,020.00	5,020.00	140.27	86.69	-44.56	-8,182.35	5,711.98	3,852.40	3,684.45	167.95	22.938	
17,200.00	7,618.00	5,020.00	5,020.00	141.91	86.69	-44.56	-8,182.35	5,711.98	3,817.75	3,647.64	170.11	22.443	
17,300.00	7,618.00	5,020.00	5,020.00	143.55	86.69	-44.56	-8,182.35	5,711.98	3,785.42	3,613.10	172.32	21.967	
17,400.00	7,618.00	5,020.00	5,020.00	145.19	86.69	-44.56	-8,182.35	5,711.98	3,755.48	3,580.91	174.57	21.513	
17,500.00	7,618.00	5,020.00	5,020.00	146.83	86.69	-44.56	-8,182.35	5,711.98	3,727.98	3,551.13	176.85	21.080	
17,600.00	7,618.00	5,020.00	5,020.00	148.48	86.69	-44.56	-8,182.35	5,711.98	3,702.98	3,523.82	179.16	20.668	
17,700.00	7,618.00	5,020.00	5,020.00	150.13	86.69	-44.56	-8,182.35	5,711.98	3,680.52	3,499.03	181.50	20.279	
17,800.00	7,618.00	5,020.00	5,020.00	151.78	86.69	-44.56	-8,182.35	5,711.98	3,660.66	3,476.81	183.85	19.911	
17,900.00	7,618.00	5,020.00	5,020.00	153.43	86.69	-44.56	-8,182.35	5,711.98	3,643.44	3,457.23	186.21	19.566	
18,000.00	7,618.00	5,020.00	5,020.00	155.09	86.69	-44.56	-8,182.35	5,711.98	3,628.89	3,440.31	188.58	19.243	
18,100.00	7,618.00	5,020.00	5,020.00	156.75	86.69	-44.56	-8,182.35	5,711.98	3,617.05	3,426.10	190.95	18.943	
18,200.00	7,618.00	5,020.00	5,020.00	158.41	86.69	-44.56	-8,182.35	5,711.98	3,607.94	3,414.64	193.31	18.664	
18,300.00	7,618.00	5,020.00	5,020.00	160.07	86.69	-44.56	-8,182.35	5,711.98	3,601.59	3,405.94	195.65	18.408	
18,400.00	7,618.00	5,020.00	5,020.00	161.74	86.69	-44.56	-8,182.35	5,711.98	3,598.01	3,400.03	197.97	18.174	
18,478.99	7,618.00	5,020.00	5,020.00	163.06	86.69	-44.56	-8,182.35	5,711.98	3,597.14	3,397.35	199.79	18.005	CC
18,500.00	7,618.00	5,020.00	5,020.00	163.41	86.69	-44.56	-8,182.35	5,711.98	3,597.20	3,396.94	200.27	17.962	
18,600.00	7,618.00	5,020.00	5,020.00	165.08	86.69	-44.56	-8,182.35	5,711.98	3,599.17	3,396.65	202.52	17.772	ES
18,700.00	7,618.00	5,020.00	5,020.00	166.75	86.69	-44.56	-8,182.35	5,711.98	3,603.92	3,399.18	204.74	17.602	
18,711.30	7,618.00	5,020.00	5,020.00	166.94	86.69	-44.56	-8,182.35	5,711.98	3,604.63	3,399.64	204.99	17.585	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	162.00	-5,565.90	1,808.94	5,852.56				
100.00	100.00	69.00	69.00	0.13	0.56	162.00	-5,565.90	1,808.94	5,852.47	5,851.78	0.69	8,427.902	
200.00	200.00	169.00	169.00	0.49	2.02	162.00	-5,565.90	1,808.94	5,852.47	5,849.97	2.51	2,332.821	
300.00	300.00	269.00	269.00	0.85	3.76	162.00	-5,565.90	1,808.94	5,852.47	5,847.86	4.61	1,268.814	
400.00	400.00	369.00	369.00	1.21	5.51	162.00	-5,565.90	1,808.94	5,852.47	5,845.76	6.72	871.376	
500.00	500.00	469.00	469.00	1.57	7.25	162.00	-5,565.90	1,808.94	5,852.47	5,843.65	8.82	663.534	
600.00	600.00	569.00	569.00	1.93	9.00	162.00	-5,565.90	1,808.94	5,852.47	5,841.55	10.92	535.747	
700.00	700.00	669.00	669.00	2.29	10.74	162.00	-5,565.90	1,808.94	5,852.47	5,839.45	13.03	449.231	
800.00	800.00	769.00	769.00	2.64	12.49	162.00	-5,565.90	1,808.94	5,852.47	5,837.34	15.13	386.773	
900.00	900.00	869.00	869.00	3.00	14.23	162.00	-5,565.90	1,808.94	5,852.47	5,835.24	17.24	339.562	
1,000.00	999.98	968.98	968.98	3.36	15.98	104.81	-5,565.90	1,808.94	5,852.92	5,833.59	19.34	302.708	
1,100.00	1,099.84	1,068.84	1,068.84	3.71	17.72	104.84	-5,565.90	1,808.94	5,854.26	5,832.83	21.43	273.158	
1,200.00	1,199.45	1,168.45	1,168.45	4.07	19.46	104.88	-5,565.90	1,808.94	5,856.50	5,832.97	23.53	248.898	
1,300.00	1,298.70	1,267.70	1,267.70	4.44	21.19	104.93	-5,565.90	1,808.94	5,859.66	5,834.03	25.63	228.620	
1,400.00	1,397.47	1,366.47	1,366.47	4.82	22.92	105.00	-5,565.90	1,808.94	5,863.75	5,836.01	27.74	211.407	
1,500.00	1,495.62	1,464.62	1,464.62	5.22	24.63	105.08	-5,565.90	1,808.94	5,868.78	5,838.93	29.85	196.602	
1,600.00	1,593.06	1,562.06	1,562.06	5.65	26.33	105.17	-5,565.90	1,808.94	5,874.80	5,842.82	31.98	183.720	
1,700.00	1,689.64	1,658.64	1,658.64	6.11	28.02	105.27	-5,565.90	1,808.94	5,881.81	5,847.69	34.12	172.400	
1,800.00	1,785.27	1,754.27	1,754.27	6.61	29.68	105.37	-5,565.90	1,808.94	5,889.86	5,853.59	36.28	162.366	
1,900.00	1,879.82	1,848.82	1,848.82	7.15	31.33	105.49	-5,565.90	1,808.94	5,898.99	5,860.53	38.45	153.406	
2,000.00	1,973.17	1,942.17	1,942.17	7.73	32.96	105.60	-5,565.90	1,808.94	5,909.22	5,868.57	40.65	145.353	
2,100.00	2,065.21	2,034.21	2,034.21	8.37	34.57	105.72	-5,565.90	1,808.94	5,920.61	5,877.73	42.88	138.076	
2,200.00	2,155.84	2,124.84	2,124.84	9.07	36.15	105.83	-5,565.90	1,808.94	5,933.19	5,888.06	45.13	131.468	
2,300.00	2,244.94	2,213.94	2,213.94	9.82	37.71	105.94	-5,565.90	1,808.94	5,947.01	5,899.60	47.41	125.445	
2,400.00	2,332.39	2,301.39	2,301.39	10.64	39.23	106.05	-5,565.90	1,808.94	5,962.11	5,912.40	49.71	119.936	
2,500.00	2,418.11	2,387.11	2,387.11	11.53	40.73	106.14	-5,565.90	1,808.94	5,978.54	5,926.50	52.04	114.884	
2,558.91	2,467.74	2,436.74	2,436.74	12.08	41.60	106.19	-5,565.90	1,808.94	5,988.86	5,935.44	53.42	112.103	
2,600.00	2,502.13	2,471.13	2,471.13	12.47	42.20	106.36	-5,565.90	1,808.94	5,996.27	5,941.88	54.39	110.243	
2,700.00	2,585.83	2,554.83	2,554.83	13.45	43.66	106.79	-5,565.90	1,808.94	6,014.61	5,957.85	56.76	105.961	
2,800.00	2,669.53	2,638.53	2,638.53	14.44	45.12	107.21	-5,565.90	1,808.94	6,033.39	5,974.24	59.15	102.007	
2,900.00	2,753.22	2,722.22	2,722.22	15.46	46.58	107.64	-5,565.90	1,808.94	6,052.60	5,991.06	61.54	98.351	
3,000.00	2,836.92	2,805.92	2,805.92	16.48	48.04	108.06	-5,565.90	1,808.94	6,072.25	6,008.31	63.94	94.967	
3,100.00	2,920.62	2,889.62	2,889.62	17.52	49.50	108.47	-5,565.90	1,808.94	6,092.33	6,025.98	66.35	91.828	
3,200.00	3,004.32	2,973.32	2,973.32	18.56	50.96	108.89	-5,565.90	1,808.94	6,112.83	6,044.07	68.75	88.911	
3,300.00	3,088.01	3,057.01	3,057.01	19.61	52.42	109.31	-5,565.90	1,808.94	6,133.74	6,062.58	71.16	86.196	
3,400.00	3,171.71	3,140.71	3,140.71	20.67	53.88	109.72	-5,565.90	1,808.94	6,155.08	6,081.51	73.57	83.665	
3,500.00	3,255.41	3,224.41	3,224.41	21.73	55.34	110.13	-5,565.90	1,808.94	6,176.83	6,100.85	75.97	81.301	
3,600.00	3,339.10	3,308.10	3,308.10	22.80	56.80	110.53	-5,565.90	1,808.94	6,198.98	6,120.60	78.38	79.089	
3,700.00	3,422.80	3,408.20	3,391.80	23.87	58.55	110.94	-5,565.90	1,808.94	6,221.53	6,140.47	81.07	76.744	
3,800.00	3,506.50	3,475.50	3,475.50	24.94	59.73	111.34	-5,565.90	1,808.94	6,244.49	6,161.31	83.18	75.071	
3,900.00	3,590.20	3,559.20	3,559.20	26.02	61.19	111.75	-5,565.90	1,808.94	6,267.83	6,182.26	85.58	73.242	
4,000.00	3,673.89	3,642.89	3,642.89	27.10	62.65	112.14	-5,565.90	1,808.94	6,291.57	6,203.60	87.97	71.521	
4,100.00	3,757.59	3,726.59	3,726.59	28.18	64.11	112.54	-5,565.90	1,808.94	6,315.69	6,225.34	90.36	69.898	
4,200.00	3,841.29	3,810.29	3,810.29	29.26	65.57	112.94	-5,565.90	1,808.94	6,340.19	6,247.46	92.74	68.366	
4,300.00	3,924.99	3,906.01	3,893.99	30.35	67.24	113.33	-5,565.90	1,808.94	6,365.07	6,269.75	95.33	66.771	
4,400.00	4,008.68	3,977.68	3,977.68	31.44	68.49	113.72	-5,565.90	1,808.94	6,390.32	6,292.83	97.49	65.548	
4,500.00	4,092.38	4,061.38	4,061.38	32.52	69.95	114.11	-5,565.90	1,808.94	6,415.94	6,316.08	99.86	64.251	
4,600.00	4,176.08	4,145.08	4,145.08	33.62	71.41	114.49	-5,565.90	1,808.94	6,441.92	6,339.70	102.22	63.020	
4,700.00	4,259.77	4,228.77	4,228.77	34.71	72.87	114.87	-5,565.90	1,808.94	6,468.26	6,363.68	104.58	61.852	
4,800.00	4,343.47	4,312.47	4,312.47	35.80	74.33	115.25	-5,565.90	1,808.94	6,494.95	6,388.03	106.93	60.741	
4,900.00	4,427.17	4,403.83	4,396.17	36.89	75.93	115.63	-5,565.90	1,808.94	6,522.00	6,412.59	109.41	59.612	
5,000.00	4,510.87	4,479.87	4,479.87	37.99	77.25	116.01	-5,565.90	1,808.94	6,549.39	6,437.77	111.61	58.679	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	4,563.56	4,563.56	39.08	78.72	116.38	-5,565.90	1,808.94	6,577.12	6,463.17	113.95	57.721	
5,200.00	4,678.26	4,647.26	4,647.26	40.18	80.18	116.75	-5,565.90	1,808.94	6,605.18	6,488.91	116.27	56.807	
5,300.00	4,761.96	4,730.96	4,730.96	41.28	81.64	117.12	-5,565.90	1,808.94	6,633.58	6,514.99	118.60	55.934	
5,400.00	4,845.66	4,814.66	4,814.66	42.37	83.10	117.49	-5,565.90	1,808.94	6,662.31	6,541.40	120.91	55.101	
5,500.00	4,929.35	4,901.65	4,898.35	43.47	84.62	117.85	-5,565.90	1,808.94	6,691.36	6,568.09	123.28	54.278	
5,600.00	5,013.05	4,982.05	4,982.05	44.57	86.02	118.21	-5,565.90	1,808.94	6,720.74	6,595.21	125.52	53.541	
5,700.00	5,096.75	5,065.75	5,065.75	45.67	87.48	118.57	-5,565.90	1,808.94	6,750.43	6,622.60	127.82	52.811	
5,800.00	5,180.45	5,125.00	5,125.00	46.77	88.51	118.82	-5,565.90	1,808.94	6,780.47	6,650.80	129.67	52.289	
5,900.00	5,264.14	5,125.00	5,125.00	47.87	88.51	118.82	-5,565.90	1,808.94	6,811.59	6,681.15	130.44	52.219	
6,000.00	5,347.84	5,125.00	5,125.00	48.97	88.51	118.82	-5,565.90	1,808.94	6,844.03	6,712.85	131.18	52.171	
6,100.00	5,431.54	5,125.00	5,125.00	50.07	88.51	118.82	-5,565.90	1,808.94	6,877.78	6,745.88	131.90	52.144	
6,200.00	5,515.23	5,125.00	5,125.00	51.17	88.51	118.82	-5,565.90	1,808.94	6,912.80	6,780.21	132.59	52.138	
6,300.00	5,598.93	5,125.00	5,125.00	52.27	88.51	118.82	-5,565.90	1,808.94	6,949.09	6,815.84	133.25	52.151	
6,400.00	5,682.63	5,125.00	5,125.00	53.38	88.51	118.82	-5,565.90	1,808.94	6,986.62	6,852.73	133.89	52.183	
6,500.00	5,766.33	5,125.00	5,125.00	54.48	88.51	118.82	-5,565.90	1,808.94	7,025.37	6,890.87	134.50	52.233	
6,600.00	5,850.02	5,125.00	5,125.00	55.58	88.51	118.82	-5,565.90	1,808.94	7,065.33	6,930.24	135.09	52.302	
6,700.00	5,933.72	5,125.00	5,125.00	56.68	88.51	118.82	-5,565.90	1,808.94	7,106.47	6,970.82	135.65	52.388	
6,800.00	6,017.42	5,125.00	5,125.00	57.79	88.51	118.82	-5,565.90	1,808.94	7,148.77	7,012.58	136.19	52.492	
6,900.00	6,101.12	5,125.00	5,125.00	58.89	88.51	118.82	-5,565.90	1,808.94	7,192.21	7,055.51	136.70	52.611	
7,000.00	6,184.81	5,125.00	5,125.00	59.99	88.51	118.82	-5,565.90	1,808.94	7,236.78	7,099.58	137.20	52.747	
7,100.00	6,268.51	5,125.00	5,125.00	61.10	88.51	118.82	-5,565.90	1,808.94	7,282.44	7,144.77	137.67	52.898	
7,200.00	6,352.21	5,125.00	5,125.00	62.20	88.51	118.82	-5,565.90	1,808.94	7,329.19	7,191.07	138.12	53.064	
7,300.00	6,435.90	5,125.00	5,125.00	63.31	88.51	118.82	-5,565.90	1,808.94	7,376.99	7,238.44	138.55	53.245	
7,400.00	6,519.60	5,125.00	5,125.00	64.41	88.51	118.82	-5,565.90	1,808.94	7,425.83	7,286.88	138.96	53.440	
7,500.00	6,603.30	5,125.00	5,125.00	65.51	88.51	118.82	-5,565.90	1,808.94	7,475.70	7,336.35	139.34	53.649	
7,600.00	6,687.00	5,125.00	5,125.00	66.62	88.51	118.82	-5,565.90	1,808.94	7,526.56	7,386.84	139.71	53.871	
7,700.00	6,770.69	5,125.00	5,125.00	67.72	88.51	118.82	-5,565.90	1,808.94	7,578.40	7,438.33	140.06	54.107	
7,800.00	6,854.39	5,125.00	5,125.00	68.83	88.51	118.82	-5,565.90	1,808.94	7,631.19	7,490.79	140.40	54.354	
7,900.00	6,938.09	5,125.00	5,125.00	69.93	88.51	118.82	-5,565.90	1,808.94	7,684.93	7,544.21	140.71	54.614	
7,933.18	6,965.86	5,125.00	5,125.00	70.30	88.51	118.82	-5,565.90	1,808.94	7,702.96	7,562.15	140.81	54.703	
7,950.00	6,980.00	5,125.00	5,125.00	70.49	88.51	116.50	-5,565.90	1,808.94	7,711.93	7,571.07	140.86	54.748	
8,000.00	7,022.68	5,125.00	5,125.00	71.01	88.51	108.92	-5,565.90	1,808.94	7,736.25	7,595.24	141.01	54.862	
8,050.00	7,066.06	5,125.00	5,125.00	71.51	88.51	100.46	-5,565.90	1,808.94	7,756.93	7,615.77	141.16	54.951	
8,100.00	7,109.82	5,125.00	5,125.00	71.97	88.51	91.46	-5,565.90	1,808.94	7,773.85	7,632.55	141.30	55.015	
8,150.00	7,153.63	5,125.00	5,125.00	72.38	88.51	82.39	-5,565.90	1,808.94	7,786.90	7,645.47	141.44	55.056	
8,200.00	7,197.14	5,125.00	5,125.00	72.74	88.51	73.76	-5,565.90	1,808.94	7,796.01	7,654.45	141.55	55.074	
8,250.00	7,240.04	5,125.00	5,125.00	73.05	88.51	65.94	-5,565.90	1,808.94	7,801.11	7,659.45	141.66	55.071	
8,300.00	7,281.99	5,125.00	5,125.00	73.31	88.51	59.11	-5,565.90	1,808.94	7,802.17	7,660.44	141.74	55.047	
8,350.00	7,322.67	5,125.00	5,125.00	73.52	88.51	53.32	-5,565.90	1,808.94	7,799.20	7,657.40	141.80	55.002	
8,400.00	7,361.77	5,125.00	5,125.00	73.68	88.51	48.46	-5,565.90	1,808.94	7,792.21	7,650.37	141.84	54.937	
8,450.00	7,399.01	5,125.00	5,125.00	73.78	88.51	44.44	-5,565.90	1,808.94	7,781.23	7,639.37	141.86	54.852	
8,500.00	7,434.08	5,125.00	5,125.00	73.85	88.51	41.12	-5,565.90	1,808.94	7,766.34	7,624.48	141.86	54.747	
8,550.00	7,466.74	5,125.00	5,125.00	73.87	88.51	38.39	-5,565.90	1,808.94	7,747.63	7,605.79	141.84	54.622	
8,600.00	7,496.72	5,125.00	5,125.00	73.85	88.51	36.14	-5,565.90	1,808.94	7,725.22	7,583.41	141.81	54.478	
8,650.00	7,523.80	5,125.00	5,125.00	73.79	88.51	34.31	-5,565.90	1,808.94	7,699.23	7,557.48	141.76	54.314	
8,700.00	7,547.77	5,125.00	5,125.00	73.70	88.51	32.83	-5,565.90	1,808.94	7,669.85	7,528.15	141.69	54.130	
8,750.00	7,568.45	5,125.00	5,125.00	73.58	88.51	31.65	-5,565.90	1,808.94	7,637.24	7,495.62	141.62	53.928	
8,800.00	7,585.69	5,125.00	5,125.00	73.43	88.51	30.74	-5,565.90	1,808.94	7,601.62	7,460.08	141.54	53.707	
8,850.00	7,599.35	5,125.00	5,125.00	73.26	88.51	30.07	-5,565.90	1,808.94	7,563.23	7,421.77	141.45	53.468	
8,900.00	7,609.33	5,125.00	5,125.00	73.07	88.51	29.63	-5,565.90	1,808.94	7,522.30	7,380.93	141.37	53.212	
8,950.00	7,615.55	5,125.00	5,125.00	72.87	88.51	29.40	-5,565.90	1,808.94	7,479.12	7,337.84	141.28	52.938	
9,000.00	7,617.97	5,125.00	5,125.00	72.65	88.51	29.39	-5,565.90	1,808.94	7,433.97	7,292.77	141.20	52.648	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,006.60	7,618.00	5,125.00	5,125.00	72.62	88.51	29.41	-5,565.90	1,808.94	7,427.88	7,286.69	141.19	52.608	
9,100.00	7,618.00	5,125.00	5,125.00	72.22	88.51	29.41	-5,565.90	1,808.94	7,341.60	7,200.55	141.04	52.052	
9,200.00	7,618.00	5,125.00	5,125.00	71.80	88.51	29.41	-5,565.90	1,808.94	7,249.41	7,108.52	140.88	51.457	
9,300.00	7,618.00	5,125.00	5,125.00	71.41	88.51	29.41	-5,565.90	1,808.94	7,157.42	7,016.71	140.72	50.864	
9,400.00	7,618.00	5,125.00	5,125.00	71.04	88.51	29.41	-5,565.90	1,808.94	7,065.66	6,925.11	140.55	50.272	
9,500.00	7,618.00	5,125.00	5,125.00	70.68	88.51	29.41	-5,565.90	1,808.94	6,974.12	6,833.75	140.38	49.682	
9,600.00	7,618.00	5,125.00	5,125.00	70.35	88.51	29.41	-5,565.90	1,808.94	6,882.82	6,742.62	140.20	49.093	
9,700.00	7,618.00	5,125.00	5,125.00	70.04	88.51	29.41	-5,565.90	1,808.94	6,791.77	6,651.75	140.02	48.506	
9,800.00	7,618.00	5,125.00	5,125.00	69.75	88.51	29.41	-5,565.90	1,808.94	6,700.96	6,561.13	139.83	47.921	
9,900.00	7,618.00	5,125.00	5,125.00	69.47	88.51	29.41	-5,565.90	1,808.94	6,610.43	6,470.79	139.64	47.338	
10,000.00	7,618.00	5,125.00	5,125.00	69.22	88.51	29.41	-5,565.90	1,808.94	6,520.17	6,380.72	139.45	46.756	
10,100.00	7,618.00	5,125.00	5,125.00	68.99	88.51	29.41	-5,565.90	1,808.94	6,430.20	6,290.95	139.25	46.177	
10,200.00	7,618.00	5,125.00	5,125.00	68.78	88.51	29.41	-5,565.90	1,808.94	6,340.53	6,201.48	139.05	45.600	
10,300.00	7,618.00	5,125.00	5,125.00	68.59	88.51	29.41	-5,565.90	1,808.94	6,251.17	6,112.33	138.84	45.025	
10,400.00	7,618.00	5,125.00	5,125.00	68.42	88.51	29.41	-5,565.90	1,808.94	6,162.14	6,023.52	138.62	44.452	
10,500.00	7,618.00	5,125.00	5,125.00	68.28	88.51	29.41	-5,565.90	1,808.94	6,073.45	5,935.05	138.40	43.882	
10,600.00	7,618.00	5,125.00	5,125.00	68.16	88.51	29.41	-5,565.90	1,808.94	5,985.12	5,846.94	138.18	43.314	
10,700.00	7,618.00	5,125.00	5,125.00	68.06	88.51	29.41	-5,565.90	1,808.94	5,897.16	5,759.21	137.95	42.749	
10,800.00	7,618.00	5,125.00	5,125.00	67.99	88.51	29.41	-5,565.90	1,808.94	5,809.59	5,671.88	137.71	42.187	
10,900.00	7,618.00	5,125.00	5,125.00	67.95	88.51	29.41	-5,565.90	1,808.94	5,722.43	5,584.96	137.47	41.628	
11,000.00	7,618.00	5,125.00	5,125.00	67.95	88.51	29.41	-5,565.90	1,808.94	5,635.69	5,498.48	137.22	41.071	
11,100.00	7,618.00	5,125.00	5,125.00	67.97	88.51	29.41	-5,565.90	1,808.94	5,549.40	5,412.44	136.96	40.518	
11,200.00	7,618.00	5,125.00	5,125.00	68.04	88.51	29.41	-5,565.90	1,808.94	5,463.58	5,326.89	136.70	39.969	
11,300.00	7,618.00	5,125.00	5,125.00	68.15	88.51	29.41	-5,565.90	1,808.94	5,378.25	5,241.82	136.43	39.423	
11,400.00	7,618.00	5,125.00	5,125.00	68.30	88.51	29.41	-5,565.90	1,808.94	5,293.43	5,157.28	136.15	38.880	
11,500.00	7,618.00	5,125.00	5,125.00	68.50	88.51	29.41	-5,565.90	1,808.94	5,209.15	5,073.29	135.86	38.342	
11,600.00	7,618.00	5,125.00	5,125.00	68.75	88.51	29.41	-5,565.90	1,808.94	5,125.44	4,989.87	135.57	37.807	
11,700.00	7,618.00	5,125.00	5,125.00	69.06	88.51	29.41	-5,565.90	1,808.94	5,042.31	4,907.05	135.26	37.277	
11,800.00	7,618.00	5,125.00	5,125.00	69.44	88.51	29.41	-5,565.90	1,808.94	4,959.82	4,824.86	134.95	36.752	
11,900.00	7,618.00	5,125.00	5,125.00	69.88	88.51	29.41	-5,565.90	1,808.94	4,877.97	4,743.34	134.64	36.231	
12,000.00	7,618.00	5,125.00	5,125.00	70.39	88.51	29.41	-5,565.90	1,808.94	4,796.82	4,662.51	134.31	35.715	
12,100.00	7,618.00	5,125.00	5,125.00	70.97	88.51	29.41	-5,565.90	1,808.94	4,716.39	4,582.42	133.97	35.205	
12,200.00	7,618.00	5,125.00	5,125.00	71.63	88.51	29.41	-5,565.90	1,808.94	4,636.72	4,503.09	133.62	34.699	
12,300.00	7,618.00	5,125.00	5,125.00	72.35	88.51	29.41	-5,565.90	1,808.94	4,557.85	4,424.58	133.27	34.200	
12,400.00	7,618.00	5,125.00	5,125.00	73.15	88.51	29.41	-5,565.90	1,808.94	4,479.83	4,346.92	132.90	33.707	
12,500.00	7,618.00	5,125.00	5,125.00	74.01	88.51	29.41	-5,565.90	1,808.94	4,402.69	4,270.16	132.53	33.221	
12,600.00	7,618.00	5,125.00	5,125.00	74.93	88.51	29.41	-5,565.90	1,808.94	4,326.49	4,194.35	132.14	32.741	
12,700.00	7,618.00	5,125.00	5,125.00	75.91	88.51	29.41	-5,565.90	1,808.94	4,251.28	4,119.53	131.75	32.268	
12,800.00	7,618.00	5,125.00	5,125.00	76.95	88.51	29.41	-5,565.90	1,808.94	4,177.11	4,045.76	131.34	31.803	
12,900.00	7,618.00	5,125.00	5,125.00	78.04	88.51	29.41	-5,565.90	1,808.94	4,104.03	3,973.10	130.93	31.346	
13,000.00	7,618.00	5,125.00	5,125.00	79.16	88.51	29.41	-5,565.90	1,808.94	4,032.11	3,901.61	130.50	30.897	
13,100.00	7,618.00	5,125.00	5,125.00	80.33	88.51	29.41	-5,565.90	1,808.94	3,961.41	3,831.34	130.07	30.457	
13,200.00	7,618.00	5,125.00	5,125.00	81.54	88.51	29.41	-5,565.90	1,808.94	3,891.99	3,762.37	129.62	30.026	
13,300.00	7,618.00	5,125.00	5,125.00	82.78	88.51	29.41	-5,565.90	1,808.94	3,823.93	3,694.76	129.16	29.605	
13,400.00	7,618.00	5,125.00	5,125.00	84.05	88.51	29.41	-5,565.90	1,808.94	3,757.29	3,628.59	128.70	29.194	
13,500.00	7,618.00	5,125.00	5,125.00	85.35	88.51	29.41	-5,565.90	1,808.94	3,692.17	3,563.94	128.23	28.794	
13,600.00	7,618.00	5,125.00	5,125.00	86.67	88.51	29.41	-5,565.90	1,808.94	3,628.63	3,500.88	127.74	28.405	
13,700.00	7,618.00	5,125.00	5,125.00	88.02	88.51	29.41	-5,565.90	1,808.94	3,566.76	3,439.51	127.25	28.029	
13,800.00	7,618.00	5,125.00	5,125.00	89.38	88.51	29.41	-5,565.90	1,808.94	3,506.66	3,379.90	126.76	27.664	
13,900.00	7,618.00	5,125.00	5,125.00	90.77	88.51	29.41	-5,565.90	1,808.94	3,448.40	3,322.14	126.26	27.312	
14,000.00	7,618.00	5,125.00	5,125.00	92.17	88.51	29.41	-5,565.90	1,808.94	3,392.10	3,266.34	125.76	26.973	
14,100.00	7,618.00	5,125.00	5,125.00	93.59	88.51	29.41	-5,565.90	1,808.94	3,337.84	3,212.58	125.25	26.649	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,618.00	5,125.00	5,125.00	95.02	88.51	29.41	-5,565.90	1,808.94	3,285.73	3,160.97	124.75	26.338	
14,300.00	7,618.00	5,125.00	5,125.00	96.47	88.51	29.41	-5,565.90	1,808.94	3,235.87	3,111.61	124.26	26.042	
14,400.00	7,618.00	5,125.00	5,125.00	97.93	88.51	29.41	-5,565.90	1,808.94	3,188.37	3,064.60	123.77	25.760	
14,500.00	7,618.00	5,125.00	5,125.00	99.41	88.51	29.41	-5,565.90	1,808.94	3,143.33	3,020.03	123.30	25.493	
14,600.00	7,618.00	5,125.00	5,125.00	100.89	88.51	29.41	-5,565.90	1,808.94	3,100.87	2,978.02	122.85	25.241	
14,700.00	7,618.00	5,125.00	5,125.00	102.38	88.51	29.41	-5,565.90	1,808.94	3,061.08	2,938.66	122.43	25.004	
14,800.00	7,618.00	5,125.00	5,125.00	103.89	88.51	29.41	-5,565.90	1,808.94	3,024.08	2,902.04	122.04	24.780	
14,900.00	7,618.00	5,125.00	5,125.00	105.40	88.51	29.41	-5,565.90	1,808.94	2,989.97	2,868.28	121.69	24.570	
15,000.00	7,618.00	5,125.00	5,125.00	106.92	88.51	29.41	-5,565.90	1,808.94	2,958.84	2,837.45	121.39	24.374	
15,100.00	7,618.00	5,125.00	5,125.00	108.45	88.51	29.41	-5,565.90	1,808.94	2,930.80	2,809.64	121.16	24.189	
15,200.00	7,618.00	5,125.00	5,125.00	109.99	88.51	29.41	-5,565.90	1,808.94	2,905.93	2,784.93	121.00	24.015	
15,300.00	7,618.00	5,125.00	5,125.00	111.54	88.51	29.41	-5,565.90	1,808.94	2,884.31	2,763.38	120.93	23.851	
15,400.00	7,618.00	5,125.00	5,125.00	113.09	88.51	29.41	-5,565.90	1,808.94	2,866.03	2,745.08	120.95	23.696	
15,500.00	7,618.00	5,125.00	5,125.00	114.65	88.51	29.41	-5,565.90	1,808.94	2,851.13	2,730.06	121.08	23.548	
15,600.00	7,618.00	5,125.00	5,125.00	116.21	88.51	29.41	-5,565.90	1,808.94	2,839.68	2,718.37	121.32	23.407	
15,700.00	7,618.00	5,125.00	5,125.00	117.78	88.51	29.41	-5,565.90	1,808.94	2,831.72	2,710.04	121.68	23.273	
15,800.00	7,618.00	5,125.00	5,125.00	119.36	88.51	29.41	-5,565.90	1,808.94	2,827.28	2,705.12	122.16	23.144	
15,875.79	7,618.00	5,125.00	5,125.00	120.56	88.51	29.41	-5,565.90	1,808.94	2,826.26	2,703.65	122.61	23.051 CC	
15,900.00	7,618.00	5,125.00	5,125.00	120.94	88.51	29.41	-5,565.90	1,808.94	2,826.36	2,703.60	122.77	23.022 ES	
16,000.00	7,618.00	5,125.00	5,125.00	122.53	88.51	29.41	-5,565.90	1,808.94	2,828.99	2,705.49	123.49	22.908	
16,100.00	7,618.00	5,125.00	5,125.00	124.12	88.51	29.41	-5,565.90	1,808.94	2,835.14	2,710.80	124.34	22.802	
16,200.00	7,618.00	5,125.00	5,125.00	125.72	88.51	29.41	-5,565.90	1,808.94	2,844.79	2,719.51	125.28	22.707	
16,300.00	7,618.00	5,125.00	5,125.00	127.32	88.51	29.41	-5,565.90	1,808.94	2,857.92	2,731.59	126.33	22.623	
16,400.00	7,618.00	5,125.00	5,125.00	128.93	88.51	29.41	-5,565.90	1,808.94	2,874.46	2,747.02	127.45	22.554	
16,500.00	7,618.00	5,125.00	5,125.00	130.54	88.51	29.41	-5,565.90	1,808.94	2,894.37	2,765.74	128.63	22.501	
16,600.00	7,618.00	5,125.00	5,125.00	132.15	88.51	29.41	-5,565.90	1,808.94	2,917.57	2,787.70	129.87	22.466	
16,700.00	7,618.00	5,125.00	5,125.00	133.77	88.51	29.41	-5,565.90	1,808.94	2,943.99	2,812.85	131.13	22.450 SF	
16,800.00	7,618.00	5,125.00	5,125.00	135.39	88.51	29.41	-5,565.90	1,808.94	2,973.53	2,841.11	132.42	22.455	
16,900.00	7,618.00	5,125.00	5,125.00	137.01	88.51	29.41	-5,565.90	1,808.94	3,006.12	2,872.41	133.71	22.482	
17,000.00	7,618.00	5,125.00	5,125.00	138.64	88.51	29.41	-5,565.90	1,808.94	3,041.64	2,906.65	134.99	22.532	
17,100.00	7,618.00	5,125.00	5,125.00	140.27	88.51	29.41	-5,565.90	1,808.94	3,080.01	2,943.75	136.26	22.604	
17,200.00	7,618.00	5,125.00	5,125.00	141.91	88.51	29.41	-5,565.90	1,808.94	3,121.10	2,983.60	137.50	22.699	
17,300.00	7,618.00	5,125.00	5,125.00	143.55	88.51	29.41	-5,565.90	1,808.94	3,164.83	3,026.12	138.70	22.817	
17,400.00	7,618.00	5,125.00	5,125.00	145.19	88.51	29.41	-5,565.90	1,808.94	3,211.07	3,071.20	139.87	22.958	
17,500.00	7,618.00	5,125.00	5,125.00	146.83	88.51	29.41	-5,565.90	1,808.94	3,259.73	3,118.74	140.99	23.121	
17,600.00	7,618.00	5,125.00	5,125.00	148.48	88.51	29.41	-5,565.90	1,808.94	3,310.69	3,168.63	142.06	23.305	
17,700.00	7,618.00	5,125.00	5,125.00	150.13	88.51	29.41	-5,565.90	1,808.94	3,363.85	3,220.76	143.09	23.509	
17,800.00	7,618.00	5,125.00	5,125.00	151.78	88.51	29.41	-5,565.90	1,808.94	3,419.11	3,275.05	144.06	23.734	
17,900.00	7,618.00	5,125.00	5,125.00	153.43	88.51	29.41	-5,565.90	1,808.94	3,476.37	3,331.39	144.98	23.978	
18,000.00	7,618.00	5,125.00	5,125.00	155.09	88.51	29.41	-5,565.90	1,808.94	3,535.54	3,389.68	145.86	24.240	
18,100.00	7,618.00	5,125.00	5,125.00	156.75	88.51	29.41	-5,565.90	1,808.94	3,596.51	3,449.82	146.68	24.519	
18,200.00	7,618.00	5,125.00	5,125.00	158.41	88.51	29.41	-5,565.90	1,808.94	3,659.19	3,511.73	147.46	24.815	
18,300.00	7,618.00	5,125.00	5,125.00	160.07	88.51	29.41	-5,565.90	1,808.94	3,723.51	3,575.32	148.19	25.127	
18,400.00	7,618.00	5,125.00	5,125.00	161.74	88.51	29.41	-5,565.90	1,808.94	3,789.38	3,640.50	148.88	25.453	
18,500.00	7,618.00	5,125.00	5,125.00	163.41	88.51	29.41	-5,565.90	1,808.94	3,856.71	3,707.19	149.52	25.794	
18,600.00	7,618.00	5,125.00	5,125.00	165.08	88.51	29.41	-5,565.90	1,808.94	3,925.44	3,775.32	150.12	26.148	
18,700.00	7,618.00	5,125.00	5,125.00	166.75	88.51	29.41	-5,565.90	1,808.94	3,995.49	3,844.80	150.69	26.515	
18,711.30	7,618.00	5,125.00	5,125.00	166.94	88.51	29.41	-5,565.90	1,808.94	4,003.48	3,852.74	150.75	26.558	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	150.50	-5,537.35	3,133.09	6,362.35				
100.00	100.00	69.00	69.00	0.13	0.56	150.50	-5,537.35	3,133.09	6,362.27	6,361.58	0.69	9,162.036	
200.00	200.00	169.00	169.00	0.49	2.02	150.50	-5,537.35	3,133.09	6,362.27	6,359.76	2.51	2,536.027	
300.00	300.00	269.00	269.00	0.85	3.76	150.50	-5,537.35	3,133.09	6,362.27	6,357.66	4.61	1,379.337	
400.00	400.00	369.00	369.00	1.21	5.51	150.50	-5,537.35	3,133.09	6,362.27	6,355.55	6.72	947.280	
500.00	500.00	469.00	469.00	1.57	7.25	150.50	-5,537.35	3,133.09	6,362.27	6,353.45	8.82	721.333	
600.00	600.00	569.00	569.00	1.93	9.00	150.50	-5,537.35	3,133.09	6,362.27	6,351.35	10.92	582.414	
700.00	700.00	669.00	669.00	2.29	10.74	150.50	-5,537.35	3,133.09	6,362.27	6,349.24	13.03	488.363	
800.00	800.00	769.00	769.00	2.64	12.49	150.50	-5,537.35	3,133.09	6,362.27	6,347.14	15.13	420.464	
900.00	900.00	869.00	869.00	3.00	14.23	150.50	-5,537.35	3,133.09	6,362.27	6,345.03	17.24	369.140	
1,000.00	999.98	968.98	968.98	3.36	15.98	93.32	-5,537.35	3,133.09	6,362.37	6,343.04	19.34	329.059	
1,100.00	1,099.84	1,068.84	1,068.84	3.71	17.72	93.36	-5,537.35	3,133.09	6,362.68	6,341.24	21.43	296.888	
1,200.00	1,199.45	1,168.45	1,168.45	4.07	19.46	93.43	-5,537.35	3,133.09	6,363.19	6,339.67	23.53	270.443	
1,300.00	1,298.70	1,267.70	1,267.70	4.44	21.19	93.52	-5,537.35	3,133.09	6,363.94	6,338.31	25.63	248.305	
1,400.00	1,397.47	1,366.47	1,366.47	4.82	22.92	93.64	-5,537.35	3,133.09	6,364.93	6,337.19	27.74	229.481	
1,500.00	1,495.62	1,464.62	1,464.62	5.22	24.63	93.79	-5,537.35	3,133.09	6,366.19	6,336.34	29.85	213.257	
1,600.00	1,593.06	1,562.06	1,562.06	5.65	26.33	93.95	-5,537.35	3,133.09	6,367.75	6,335.77	31.98	199.109	
1,700.00	1,689.64	1,658.64	1,658.64	6.11	28.02	94.14	-5,537.35	3,133.09	6,369.64	6,335.51	34.13	186.647	
1,800.00	1,785.27	1,754.27	1,754.27	6.61	29.68	94.34	-5,537.35	3,133.09	6,371.90	6,335.61	36.29	175.571	
1,900.00	1,879.82	1,848.82	1,848.82	7.15	31.33	94.57	-5,537.35	3,133.09	6,374.57	6,336.09	38.48	165.653	
2,000.00	1,973.17	1,942.17	1,942.17	7.73	32.96	94.80	-5,537.35	3,133.09	6,377.71	6,337.01	40.70	156.713	
2,100.00	2,065.21	2,034.21	2,034.21	8.37	34.57	95.05	-5,537.35	3,133.09	6,381.35	6,338.41	42.94	148.609	
2,200.00	2,155.84	2,124.84	2,124.84	9.07	36.15	95.31	-5,537.35	3,133.09	6,385.56	6,340.35	45.22	141.226	
2,300.00	2,244.94	2,213.94	2,213.94	9.82	37.71	95.58	-5,537.35	3,133.09	6,390.39	6,342.87	47.52	134.475	
2,400.00	2,332.39	2,301.39	2,301.39	10.64	39.23	95.85	-5,537.35	3,133.09	6,395.90	6,346.04	49.86	128.278	
2,500.00	2,418.11	2,387.11	2,387.11	11.53	40.73	96.12	-5,537.35	3,133.09	6,402.15	6,349.92	52.23	122.575	
2,558.91	2,467.74	2,436.74	2,436.74	12.08	41.60	96.27	-5,537.35	3,133.09	6,406.21	6,352.57	53.64	119.428	
2,600.00	2,502.13	2,471.13	2,471.13	12.47	42.20	96.44	-5,537.35	3,133.09	6,409.18	6,354.55	54.63	117.319	
2,700.00	2,585.83	2,554.83	2,554.83	13.45	43.66	96.85	-5,537.35	3,133.09	6,416.72	6,359.66	57.06	112.465	
2,800.00	2,669.53	2,638.53	2,638.53	14.44	45.12	97.25	-5,537.35	3,133.09	6,424.72	6,365.22	59.50	107.985	
2,900.00	2,753.22	2,722.22	2,722.22	15.46	46.58	97.66	-5,537.35	3,133.09	6,433.18	6,371.23	61.95	103.845	
3,000.00	2,836.92	2,805.92	2,805.92	16.48	48.04	98.07	-5,537.35	3,133.09	6,442.09	6,377.67	64.41	100.012	
3,100.00	2,920.62	2,889.62	2,889.62	17.52	49.50	98.47	-5,537.35	3,133.09	6,451.45	6,384.57	66.88	96.458	
3,200.00	3,004.32	2,973.32	2,973.32	18.56	50.96	98.87	-5,537.35	3,133.09	6,461.26	6,391.90	69.36	93.157	
3,300.00	3,088.01	3,057.01	3,057.01	19.61	52.42	99.28	-5,537.35	3,133.09	6,471.52	6,399.68	71.84	90.084	
3,400.00	3,171.71	3,140.71	3,140.71	20.67	53.88	99.68	-5,537.35	3,133.09	6,482.23	6,407.91	74.32	87.220	
3,500.00	3,255.41	3,224.41	3,224.41	21.73	55.34	100.08	-5,537.35	3,133.09	6,493.38	6,416.57	76.80	84.545	
3,600.00	3,339.10	3,308.10	3,308.10	22.80	56.80	100.48	-5,537.35	3,133.09	6,504.97	6,425.68	79.29	82.043	
3,700.00	3,422.80	3,408.20	3,391.80	23.87	58.55	100.88	-5,537.35	3,133.09	6,517.00	6,434.94	82.06	79.420	
3,800.00	3,506.50	3,475.50	3,475.50	24.94	59.73	101.28	-5,537.35	3,133.09	6,529.46	6,445.21	84.25	77.497	
3,900.00	3,590.20	3,559.20	3,559.20	26.02	61.19	101.67	-5,537.35	3,133.09	6,542.36	6,455.63	86.74	75.429	
4,000.00	3,673.89	3,642.89	3,642.89	27.10	62.65	102.07	-5,537.35	3,133.09	6,555.69	6,466.48	89.22	73.482	
4,100.00	3,757.59	3,726.59	3,726.59	28.18	64.11	102.46	-5,537.35	3,133.09	6,569.45	6,477.76	91.69	71.647	
4,200.00	3,841.29	3,810.29	3,810.29	29.26	65.57	102.86	-5,537.35	3,133.09	6,583.64	6,489.47	94.17	69.914	
4,300.00	3,924.99	3,906.01	3,893.99	30.35	67.24	103.25	-5,537.35	3,133.09	6,598.25	6,501.40	96.85	68.130	
4,400.00	4,008.68	3,977.68	3,977.68	31.44	68.49	103.64	-5,537.35	3,133.09	6,613.28	6,514.17	99.11	66.729	
4,500.00	4,092.38	4,061.38	4,061.38	32.52	69.95	104.03	-5,537.35	3,133.09	6,628.73	6,527.16	101.57	65.262	
4,600.00	4,176.08	4,145.08	4,145.08	33.62	71.41	104.42	-5,537.35	3,133.09	6,644.59	6,540.56	104.03	63.871	
4,700.00	4,259.77	4,228.77	4,228.77	34.71	72.87	104.81	-5,537.35	3,133.09	6,660.87	6,554.38	106.49	62.550	
4,800.00	4,343.47	4,312.47	4,312.47	35.80	74.33	105.19	-5,537.35	3,133.09	6,677.55	6,568.61	108.94	61.295	
4,900.00	4,427.17	4,403.83	4,396.17	36.89	75.93	105.58	-5,537.35	3,133.09	6,694.64	6,583.12	111.52	60.030	
5,000.00	4,510.87	4,479.87	4,479.87	37.99	77.25	105.96	-5,537.35	3,133.09	6,712.13	6,598.30	113.83	58.965	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	4,563.56	4,563.56	39.08	78.72	106.34	-5,537.35	3,133.09	6,730.02	6,613.75	116.27	57.883	
5,200.00	4,678.26	4,647.26	4,647.26	40.18	80.18	106.72	-5,537.35	3,133.09	6,748.31	6,629.61	118.70	56.850	
5,300.00	4,761.96	4,730.96	4,730.96	41.28	81.64	107.10	-5,537.35	3,133.09	6,766.99	6,645.86	121.13	55.865	
5,400.00	4,845.66	4,814.66	4,814.66	42.37	83.10	107.47	-5,537.35	3,133.09	6,786.06	6,662.51	123.55	54.924	
5,500.00	4,929.35	4,901.65	4,898.35	43.47	84.62	107.85	-5,537.35	3,133.09	6,805.52	6,679.49	126.03	53.999	
5,600.00	5,013.05	4,982.05	4,982.05	44.57	86.02	108.22	-5,537.35	3,133.09	6,825.36	6,696.98	128.38	53.163	
5,700.00	5,096.75	5,065.75	5,065.75	45.67	87.48	108.59	-5,537.35	3,133.09	6,845.58	6,714.79	130.79	52.340	
5,800.00	5,180.45	5,149.45	5,149.45	46.77	88.94	108.96	-5,537.35	3,133.09	6,866.18	6,732.99	133.19	51.551	
5,900.00	5,264.14	5,148.00	5,148.00	47.87	88.92	108.96	-5,537.35	3,133.09	6,887.68	6,753.61	134.06	51.376	
6,000.00	5,347.84	5,148.00	5,148.00	48.97	88.92	108.96	-5,537.35	3,133.09	6,910.56	6,775.62	134.94	51.214	
6,100.00	5,431.54	5,148.00	5,148.00	50.07	88.92	108.96	-5,537.35	3,133.09	6,934.80	6,799.02	135.78	51.073	
6,200.00	5,515.23	5,148.00	5,148.00	51.17	88.92	108.96	-5,537.35	3,133.09	6,960.40	6,823.80	136.60	50.955	
6,300.00	5,598.93	5,148.00	5,148.00	52.27	88.92	108.96	-5,537.35	3,133.09	6,987.33	6,849.94	137.39	50.857	
6,400.00	5,682.63	5,148.00	5,148.00	53.38	88.92	108.96	-5,537.35	3,133.09	7,015.59	6,877.43	138.16	50.779	
6,500.00	5,766.33	5,148.00	5,148.00	54.48	88.92	108.96	-5,537.35	3,133.09	7,045.15	6,906.25	138.90	50.722	
6,600.00	5,850.02	5,148.00	5,148.00	55.58	88.92	108.96	-5,537.35	3,133.09	7,076.00	6,936.39	139.61	50.683	
6,700.00	5,933.72	5,148.00	5,148.00	56.68	88.92	108.96	-5,537.35	3,133.09	7,108.12	6,967.83	140.30	50.664	
6,800.00	6,017.42	5,148.00	5,148.00	57.79	88.92	108.96	-5,537.35	3,133.09	7,141.51	7,000.54	140.96	50.662	
6,900.00	6,101.12	5,148.00	5,148.00	58.89	88.92	108.96	-5,537.35	3,133.09	7,176.12	7,034.52	141.60	50.679	
7,000.00	6,184.81	5,148.00	5,148.00	59.99	88.92	108.96	-5,537.35	3,133.09	7,211.96	7,069.75	142.21	50.712	
7,100.00	6,268.51	5,148.00	5,148.00	61.10	88.92	108.96	-5,537.35	3,133.09	7,249.01	7,106.20	142.80	50.763	
7,200.00	6,352.21	5,148.00	5,148.00	62.20	88.92	108.96	-5,537.35	3,133.09	7,287.23	7,143.87	143.37	50.829	
7,300.00	6,435.90	5,148.00	5,148.00	63.31	88.92	108.96	-5,537.35	3,133.09	7,326.62	7,182.72	143.91	50.912	
7,400.00	6,519.60	5,148.00	5,148.00	64.41	88.92	108.96	-5,537.35	3,133.09	7,367.16	7,222.74	144.43	51.010	
7,500.00	6,603.30	5,148.00	5,148.00	65.51	88.92	108.96	-5,537.35	3,133.09	7,408.83	7,263.91	144.92	51.123	
7,600.00	6,687.00	5,148.00	5,148.00	66.62	88.92	108.96	-5,537.35	3,133.09	7,451.61	7,306.21	145.40	51.250	
7,700.00	6,770.69	5,148.00	5,148.00	67.72	88.92	108.96	-5,537.35	3,133.09	7,495.47	7,349.62	145.85	51.392	
7,800.00	6,854.39	5,148.00	5,148.00	68.83	88.92	108.96	-5,537.35	3,133.09	7,540.41	7,394.13	146.28	51.548	
7,900.00	6,938.09	5,148.00	5,148.00	69.93	88.92	108.96	-5,537.35	3,133.09	7,586.40	7,439.71	146.69	51.717	
7,933.18	6,965.86	5,148.00	5,148.00	70.30	88.92	108.96	-5,537.35	3,133.09	7,601.89	7,455.06	146.82	51.776	
7,950.00	6,980.00	5,148.00	5,148.00	70.49	88.92	106.78	-5,537.35	3,133.09	7,609.56	7,462.67	146.89	51.805	
8,000.00	7,022.68	5,148.00	5,148.00	71.01	88.92	99.57	-5,537.35	3,133.09	7,629.97	7,482.89	147.08	51.877	
8,050.00	7,066.06	5,148.00	5,148.00	71.51	88.92	91.40	-5,537.35	3,133.09	7,646.66	7,499.40	147.26	51.927	
8,100.00	7,109.82	5,148.00	5,148.00	71.97	88.92	82.61	-5,537.35	3,133.09	7,659.53	7,512.11	147.42	51.956	
8,150.00	7,153.63	5,148.00	5,148.00	72.38	88.92	73.69	-5,537.35	3,133.09	7,668.51	7,520.94	147.57	51.965	
8,200.00	7,197.14	5,148.00	5,148.00	72.74	88.92	65.13	-5,537.35	3,133.09	7,673.53	7,525.84	147.70	51.955	
8,250.00	7,240.04	5,148.00	5,148.00	73.05	88.92	57.32	-5,537.35	3,133.09	7,674.57	7,526.78	147.79	51.927	
8,300.00	7,281.99	5,148.00	5,148.00	73.31	88.92	50.46	-5,537.35	3,133.09	7,671.62	7,523.76	147.87	51.882	
8,350.00	7,322.67	5,148.00	5,148.00	73.52	88.92	44.56	-5,537.35	3,133.09	7,664.71	7,516.80	147.91	51.820	
8,400.00	7,361.77	5,148.00	5,148.00	73.68	88.92	39.54	-5,537.35	3,133.09	7,653.86	7,505.93	147.93	51.741	
8,450.00	7,399.01	5,148.00	5,148.00	73.78	88.92	35.27	-5,537.35	3,133.09	7,639.15	7,491.23	147.92	51.645	
8,500.00	7,434.08	5,148.00	5,148.00	73.85	88.92	31.63	-5,537.35	3,133.09	7,620.67	7,472.79	147.88	51.532	
8,550.00	7,466.74	5,148.00	5,148.00	73.87	88.92	28.48	-5,537.35	3,133.09	7,598.53	7,450.70	147.83	51.402	
8,600.00	7,496.72	5,148.00	5,148.00	73.85	88.92	25.71	-5,537.35	3,133.09	7,572.87	7,425.12	147.75	51.256	
8,650.00	7,523.80	5,148.00	5,148.00	73.79	88.92	23.22	-5,537.35	3,133.09	7,543.84	7,396.19	147.65	51.093	
8,700.00	7,547.77	5,148.00	5,148.00	73.70	88.92	20.90	-5,537.35	3,133.09	7,511.64	7,364.10	147.54	50.914	
8,750.00	7,568.45	5,148.00	5,148.00	73.58	88.92	18.66	-5,537.35	3,133.09	7,476.47	7,329.05	147.41	50.718	
8,800.00	7,585.69	5,148.00	5,148.00	73.43	88.92	16.37	-5,537.35	3,133.09	7,438.55	7,291.27	147.28	50.508	
8,850.00	7,599.35	5,148.00	5,148.00	73.26	88.92	13.90	-5,537.35	3,133.09	7,398.13	7,251.00	147.13	50.281	
8,900.00	7,609.33	5,148.00	5,148.00	73.07	88.92	11.01	-5,537.35	3,133.09	7,355.49	7,208.50	146.99	50.040	
8,950.00	7,615.55	5,148.00	5,148.00	72.87	88.92	7.36	-5,537.35	3,133.09	7,310.91	7,164.06	146.85	49.785	
9,000.00	7,617.97	5,148.00	5,148.00	72.65	88.92	2.32	-5,537.35	3,133.09	7,264.70	7,117.99	146.71	49.517	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,006.60	7,618.00	5,148.00	5,148.00	72.62	88.92	1.50	-5,537.35	3,133.09	7,258.49	7,111.80	146.70	49.480	
9,100.00	7,618.00	5,148.00	5,148.00	72.22	88.92	1.50	-5,537.35	3,133.09	7,170.60	7,024.16	146.44	48.966	
9,200.00	7,618.00	5,148.00	5,148.00	71.80	88.92	1.50	-5,537.35	3,133.09	7,076.65	6,930.49	146.16	48.417	
9,300.00	7,618.00	5,148.00	5,148.00	71.41	88.92	1.50	-5,537.35	3,133.09	6,982.86	6,836.99	145.87	47.870	
9,400.00	7,618.00	5,148.00	5,148.00	71.04	88.92	1.50	-5,537.35	3,133.09	6,889.25	6,743.68	145.57	47.325	
9,500.00	7,618.00	5,148.00	5,148.00	70.68	88.92	1.50	-5,537.35	3,133.09	6,795.83	6,650.56	145.27	46.781	
9,600.00	7,618.00	5,148.00	5,148.00	70.35	88.92	1.50	-5,537.35	3,133.09	6,702.59	6,557.64	144.95	46.240	
9,700.00	7,618.00	5,148.00	5,148.00	70.04	88.92	1.50	-5,537.35	3,133.09	6,609.55	6,464.92	144.63	45.700	
9,800.00	7,618.00	5,148.00	5,148.00	69.75	88.92	1.50	-5,537.35	3,133.09	6,516.72	6,372.43	144.29	45.163	
9,900.00	7,618.00	5,148.00	5,148.00	69.47	88.92	1.50	-5,537.35	3,133.09	6,424.10	6,280.15	143.95	44.628	
10,000.00	7,618.00	5,148.00	5,148.00	69.22	88.92	1.50	-5,537.35	3,133.09	6,331.71	6,188.12	143.59	44.095	
10,100.00	7,618.00	5,148.00	5,148.00	68.99	88.92	1.50	-5,537.35	3,133.09	6,239.55	6,096.33	143.22	43.565	
10,200.00	7,618.00	5,148.00	5,148.00	68.78	88.92	1.50	-5,537.35	3,133.09	6,147.64	6,004.79	142.84	43.038	
10,300.00	7,618.00	5,148.00	5,148.00	68.59	88.92	1.50	-5,537.35	3,133.09	6,055.98	5,913.53	142.45	42.513	
10,400.00	7,618.00	5,148.00	5,148.00	68.42	88.92	1.50	-5,537.35	3,133.09	5,964.59	5,822.54	142.05	41.991	
10,500.00	7,618.00	5,148.00	5,148.00	68.28	88.92	1.50	-5,537.35	3,133.09	5,873.48	5,731.86	141.63	41.472	
10,600.00	7,618.00	5,148.00	5,148.00	68.16	88.92	1.50	-5,537.35	3,133.09	5,782.67	5,641.47	141.19	40.956	
10,700.00	7,618.00	5,148.00	5,148.00	68.06	88.92	1.50	-5,537.35	3,133.09	5,692.16	5,551.42	140.74	40.444	
10,800.00	7,618.00	5,148.00	5,148.00	67.99	88.92	1.50	-5,537.35	3,133.09	5,601.98	5,461.70	140.28	39.935	
10,900.00	7,618.00	5,148.00	5,148.00	67.95	88.92	1.50	-5,537.35	3,133.09	5,512.13	5,372.33	139.80	39.429	
11,000.00	7,618.00	5,148.00	5,148.00	67.95	88.92	1.50	-5,537.35	3,133.09	5,422.64	5,283.34	139.30	38.928	
11,100.00	7,618.00	5,148.00	5,148.00	67.97	88.92	1.50	-5,537.35	3,133.09	5,333.52	5,194.74	138.78	38.431	
11,200.00	7,618.00	5,148.00	5,148.00	68.04	88.92	1.50	-5,537.35	3,133.09	5,244.80	5,106.55	138.25	37.938	
11,300.00	7,618.00	5,148.00	5,148.00	68.15	88.92	1.50	-5,537.35	3,133.09	5,156.49	5,018.80	137.69	37.449	
11,400.00	7,618.00	5,148.00	5,148.00	68.30	88.92	1.50	-5,537.35	3,133.09	5,068.61	4,931.49	137.12	36.965	
11,500.00	7,618.00	5,148.00	5,148.00	68.50	88.92	1.50	-5,537.35	3,133.09	4,981.19	4,844.67	136.52	36.486	
11,600.00	7,618.00	5,148.00	5,148.00	68.75	88.92	1.50	-5,537.35	3,133.09	4,894.25	4,758.35	135.90	36.013	
11,700.00	7,618.00	5,148.00	5,148.00	69.06	88.92	1.50	-5,537.35	3,133.09	4,807.83	4,672.56	135.26	35.545	
11,800.00	7,618.00	5,148.00	5,148.00	69.44	88.92	1.50	-5,537.35	3,133.09	4,721.93	4,587.34	134.59	35.083	
11,900.00	7,618.00	5,148.00	5,148.00	69.88	88.92	1.50	-5,537.35	3,133.09	4,636.60	4,502.70	133.90	34.627	
12,000.00	7,618.00	5,148.00	5,148.00	70.39	88.92	1.50	-5,537.35	3,133.09	4,551.87	4,418.69	133.18	34.178	
12,100.00	7,618.00	5,148.00	5,148.00	70.97	88.92	1.50	-5,537.35	3,133.09	4,467.77	4,335.34	132.44	33.735	
12,200.00	7,618.00	5,148.00	5,148.00	71.63	88.92	1.50	-5,537.35	3,133.09	4,384.34	4,252.68	131.66	33.300	
12,300.00	7,618.00	5,148.00	5,148.00	72.35	88.92	1.50	-5,537.35	3,133.09	4,301.61	4,170.76	130.86	32.873	
12,400.00	7,618.00	5,148.00	5,148.00	73.15	88.92	1.50	-5,537.35	3,133.09	4,219.64	4,089.62	130.02	32.454	
12,500.00	7,618.00	5,148.00	5,148.00	74.01	88.92	1.50	-5,537.35	3,133.09	4,138.45	4,009.30	129.15	32.043	
12,600.00	7,618.00	5,148.00	5,148.00	74.93	88.92	1.50	-5,537.35	3,133.09	4,058.11	3,929.86	128.25	31.642	
12,700.00	7,618.00	5,148.00	5,148.00	75.91	88.92	1.50	-5,537.35	3,133.09	3,978.65	3,851.34	127.32	31.250	
12,800.00	7,618.00	5,148.00	5,148.00	76.95	88.92	1.50	-5,537.35	3,133.09	3,900.14	3,773.80	126.35	30.869	
12,900.00	7,618.00	5,148.00	5,148.00	78.04	88.92	1.50	-5,537.35	3,133.09	3,822.64	3,697.30	125.34	30.498	
13,000.00	7,618.00	5,148.00	5,148.00	79.16	88.92	1.50	-5,537.35	3,133.09	3,746.20	3,621.91	124.30	30.139	
13,100.00	7,618.00	5,148.00	5,148.00	80.33	88.92	1.50	-5,537.35	3,133.09	3,670.90	3,547.68	123.21	29.793	
13,200.00	7,618.00	5,148.00	5,148.00	81.54	88.92	1.50	-5,537.35	3,133.09	3,596.79	3,474.70	122.10	29.459	
13,300.00	7,618.00	5,148.00	5,148.00	82.78	88.92	1.50	-5,537.35	3,133.09	3,523.97	3,403.03	120.94	29.139	
13,400.00	7,618.00	5,148.00	5,148.00	84.05	88.92	1.50	-5,537.35	3,133.09	3,452.51	3,332.77	119.74	28.833	
13,500.00	7,618.00	5,148.00	5,148.00	85.35	88.92	1.50	-5,537.35	3,133.09	3,382.50	3,263.99	118.50	28.543	
13,600.00	7,618.00	5,148.00	5,148.00	86.67	88.92	1.50	-5,537.35	3,133.09	3,314.02	3,196.79	117.23	28.270	
13,700.00	7,618.00	5,148.00	5,148.00	88.02	88.92	1.50	-5,537.35	3,133.09	3,247.18	3,131.27	115.91	28.014	
13,800.00	7,618.00	5,148.00	5,148.00	89.38	88.92	1.50	-5,537.35	3,133.09	3,182.08	3,067.52	114.56	27.777	
13,900.00	7,618.00	5,148.00	5,148.00	90.77	88.92	1.50	-5,537.35	3,133.09	3,118.83	3,005.66	113.17	27.559	
14,000.00	7,618.00	5,148.00	5,148.00	92.17	88.92	1.50	-5,537.35	3,133.09	3,057.54	2,945.80	111.74	27.363	
14,100.00	7,618.00	5,148.00	5,148.00	93.59	88.92	1.50	-5,537.35	3,133.09	2,998.33	2,888.05	110.28	27.189	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,618.00	5,148.00	5,148.00	95.02	88.92	1.50	-5,537.35	3,133.09	2,941.33	2,832.55	108.78	27.038	
14,300.00	7,618.00	5,148.00	5,148.00	96.47	88.92	1.50	-5,537.35	3,133.09	2,886.67	2,779.42	107.26	26.914	
14,400.00	7,618.00	5,148.00	5,148.00	97.93	88.92	1.50	-5,537.35	3,133.09	2,834.49	2,728.79	105.70	26.816	
14,500.00	7,618.00	5,148.00	5,148.00	99.41	88.92	1.50	-5,537.35	3,133.09	2,784.92	2,680.80	104.12	26.746	
14,600.00	7,618.00	5,148.00	5,148.00	100.89	88.92	1.50	-5,537.35	3,133.09	2,738.11	2,635.58	102.53	26.707	
14,700.00	7,618.00	5,148.00	5,148.00	102.38	88.92	1.50	-5,537.35	3,133.09	2,694.19	2,593.28	100.91	26.698	
14,800.00	7,618.00	5,148.00	5,148.00	103.89	88.92	1.50	-5,537.35	3,133.09	2,653.32	2,554.03	99.29	26.722	
14,900.00	7,618.00	5,148.00	5,148.00	105.40	88.92	1.50	-5,537.35	3,133.09	2,615.64	2,517.96	97.68	26.778	
15,000.00	7,618.00	5,148.00	5,148.00	106.92	88.92	1.50	-5,537.35	3,133.09	2,581.28	2,485.20	96.08	26.865	
15,100.00	7,618.00	5,148.00	5,148.00	108.45	88.92	1.50	-5,537.35	3,133.09	2,550.39	2,455.86	94.53	26.981	
15,200.00	7,618.00	5,148.00	5,148.00	109.99	88.92	1.50	-5,537.35	3,133.09	2,523.08	2,430.04	93.04	27.119	
15,300.00	7,618.00	5,148.00	5,148.00	111.54	88.92	1.50	-5,537.35	3,133.09	2,499.48	2,407.82	91.65	27.271	
15,400.00	7,618.00	5,148.00	5,148.00	113.09	88.92	1.50	-5,537.35	3,133.09	2,479.68	2,389.24	90.44	27.417	
15,500.00	7,618.00	5,148.00	5,148.00	114.65	88.92	1.50	-5,537.35	3,133.09	2,463.79	2,374.31	89.48	27.534	
15,600.00	7,618.00	5,148.00	5,148.00	116.21	88.92	1.50	-5,537.35	3,133.09	2,451.88	2,362.99	88.89	27.582	
15,700.00	7,618.00	5,148.00	5,148.00	117.78	88.92	1.50	-5,537.35	3,133.09	2,444.01	2,355.19	88.82	27.516	
15,800.00	7,618.00	5,148.00	5,148.00	119.36	88.92	1.50	-5,537.35	3,133.09	2,440.21	2,350.80	89.41	27.292	
15,842.75	7,618.00	5,148.00	5,148.00	120.04	88.92	1.50	-5,537.35	3,133.09	2,439.84	2,349.95	89.89	27.142 CC	
15,900.00	7,618.00	5,148.00	5,148.00	120.94	88.92	1.50	-5,537.35	3,133.09	2,440.51	2,349.76	90.75	26.893 ES	
16,000.00	7,618.00	5,148.00	5,148.00	122.53	88.92	1.50	-5,537.35	3,133.09	2,444.90	2,352.08	92.82	26.340	
16,100.00	7,618.00	5,148.00	5,148.00	124.12	88.92	1.50	-5,537.35	3,133.09	2,453.36	2,357.87	95.49	25.691	
16,200.00	7,618.00	5,148.00	5,148.00	125.72	88.92	1.50	-5,537.35	3,133.09	2,465.85	2,367.25	98.61	25.007	
16,300.00	7,618.00	5,148.00	5,148.00	127.32	88.92	1.50	-5,537.35	3,133.09	2,482.31	2,380.32	101.99	24.339	
16,400.00	7,618.00	5,148.00	5,148.00	128.93	88.92	1.50	-5,537.35	3,133.09	2,502.66	2,397.15	105.52	23.718	
16,500.00	7,618.00	5,148.00	5,148.00	130.54	88.92	1.50	-5,537.35	3,133.09	2,526.81	2,417.72	109.09	23.162	
16,600.00	7,618.00	5,148.00	5,148.00	132.15	88.92	1.50	-5,537.35	3,133.09	2,554.65	2,442.00	112.64	22.679	
16,700.00	7,618.00	5,148.00	5,148.00	133.77	88.92	1.50	-5,537.35	3,133.09	2,586.05	2,469.93	116.12	22.270	
16,800.00	7,618.00	5,148.00	5,148.00	135.39	88.92	1.50	-5,537.35	3,133.09	2,620.90	2,501.41	119.49	21.934	
16,900.00	7,618.00	5,148.00	5,148.00	137.01	88.92	1.50	-5,537.35	3,133.09	2,659.06	2,536.32	122.73	21.666	
17,000.00	7,618.00	5,148.00	5,148.00	138.64	88.92	1.50	-5,537.35	3,133.09	2,700.38	2,574.55	125.82	21.461	
17,100.00	7,618.00	5,148.00	5,148.00	140.27	88.92	1.50	-5,537.35	3,133.09	2,744.72	2,615.96	128.76	21.316	
17,200.00	7,618.00	5,148.00	5,148.00	141.91	88.92	1.50	-5,537.35	3,133.09	2,791.94	2,660.40	131.54	21.225	
17,300.00	7,618.00	5,148.00	5,148.00	143.55	88.92	1.50	-5,537.35	3,133.09	2,841.90	2,707.74	134.15	21.184 SF	
17,400.00	7,618.00	5,148.00	5,148.00	145.19	88.92	1.50	-5,537.35	3,133.09	2,894.45	2,757.84	136.61	21.188	
17,500.00	7,618.00	5,148.00	5,148.00	146.83	88.92	1.50	-5,537.35	3,133.09	2,949.45	2,810.55	138.91	21.233	
17,600.00	7,618.00	5,148.00	5,148.00	148.48	88.92	1.50	-5,537.35	3,133.09	3,006.78	2,865.73	141.06	21.316	
17,700.00	7,618.00	5,148.00	5,148.00	150.13	88.92	1.50	-5,537.35	3,133.09	3,066.30	2,923.24	143.06	21.434	
17,800.00	7,618.00	5,148.00	5,148.00	151.78	88.92	1.50	-5,537.35	3,133.09	3,127.88	2,982.96	144.92	21.583	
17,900.00	7,618.00	5,148.00	5,148.00	153.43	88.92	1.50	-5,537.35	3,133.09	3,191.41	3,044.75	146.66	21.761	
18,000.00	7,618.00	5,148.00	5,148.00	155.09	88.92	1.50	-5,537.35	3,133.09	3,256.77	3,108.50	148.27	21.966	
18,100.00	7,618.00	5,148.00	5,148.00	156.75	88.92	1.50	-5,537.35	3,133.09	3,323.85	3,174.09	149.76	22.195	
18,200.00	7,618.00	5,148.00	5,148.00	158.41	88.92	1.50	-5,537.35	3,133.09	3,392.55	3,241.41	151.15	22.446	
18,300.00	7,618.00	5,148.00	5,148.00	160.07	88.92	1.50	-5,537.35	3,133.09	3,462.78	3,310.35	152.43	22.717	
18,400.00	7,618.00	5,148.00	5,148.00	161.74	88.92	1.50	-5,537.35	3,133.09	3,534.45	3,380.83	153.62	23.007	
18,500.00	7,618.00	5,148.00	5,148.00	163.41	88.92	1.50	-5,537.35	3,133.09	3,607.46	3,452.74	154.73	23.315	
18,600.00	7,618.00	5,148.00	5,148.00	165.08	88.92	1.50	-5,537.35	3,133.09	3,681.74	3,525.99	155.75	23.639	
18,700.00	7,618.00	5,148.00	5,148.00	166.75	88.92	1.50	-5,537.35	3,133.09	3,757.22	3,600.52	156.70	23.978	
18,711.30	7,618.00	5,148.00	5,148.00	166.94	88.92	1.50	-5,537.35	3,133.09	3,765.82	3,609.02	156.80	24.017	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	147.23	-6,842.40	4,404.53	8,137.50				
100.00	100.00	76.00	76.00	0.13	0.63	147.23	-6,842.40	4,404.53	8,137.47	8,136.70	0.76	N/A	
200.00	200.00	176.00	176.00	0.49	2.16	147.23	-6,842.40	4,404.53	8,137.47	8,134.82	2.65	3,072.619	
300.00	300.00	276.00	276.00	0.85	3.90	147.23	-6,842.40	4,404.53	8,137.47	8,132.71	4.75	1,712.364	
400.00	400.00	376.00	376.00	1.21	5.65	147.23	-6,842.40	4,404.53	8,137.47	8,130.61	6.86	1,186.915	
500.00	500.00	476.00	476.00	1.57	7.39	147.23	-6,842.40	4,404.53	8,137.47	8,128.51	8.96	908.221	
600.00	600.00	576.00	576.00	1.93	9.14	147.23	-6,842.40	4,404.53	8,137.47	8,126.40	11.06	735.518	
700.00	700.00	676.00	676.00	2.29	10.88	147.23	-6,842.40	4,404.53	8,137.47	8,124.30	13.17	618.002	
800.00	800.00	776.00	776.00	2.64	12.63	147.23	-6,842.40	4,404.53	8,137.47	8,122.20	15.27	532.864	
900.00	900.00	876.00	876.00	3.00	14.37	147.23	-6,842.40	4,404.53	8,137.47	8,120.09	17.37	468.344	
1,000.00	999.98	975.98	975.98	3.36	16.12	90.05	-6,842.40	4,404.53	8,137.47	8,117.99	19.47	417.850	
1,100.00	1,099.84	1,075.84	1,075.84	3.71	17.86	90.09	-6,842.40	4,404.53	8,137.47	8,115.90	21.57	377.247	
1,200.00	1,199.45	1,175.45	1,175.45	4.07	19.60	90.15	-6,842.40	4,404.53	8,137.49	8,113.82	23.67	343.817	
1,300.00	1,298.70	1,274.70	1,274.70	4.44	21.33	90.23	-6,842.40	4,404.53	8,137.53	8,111.76	25.77	315.793	
1,400.00	1,397.47	1,373.47	1,373.47	4.82	23.06	90.34	-6,842.40	4,404.53	8,137.61	8,109.74	27.88	291.931	
1,500.00	1,495.62	1,471.62	1,471.62	5.22	24.77	90.47	-6,842.40	4,404.53	8,137.75	8,107.76	29.99	271.341	
1,600.00	1,593.06	1,569.06	1,569.06	5.65	26.47	90.62	-6,842.40	4,404.53	8,137.97	8,105.85	32.12	253.364	
1,700.00	1,689.64	1,665.64	1,665.64	6.11	28.15	90.79	-6,842.40	4,404.53	8,138.30	8,104.03	34.27	237.509	
1,800.00	1,785.27	1,761.27	1,761.27	6.61	29.82	90.98	-6,842.40	4,404.53	8,138.77	8,102.34	36.43	223.401	
1,900.00	1,879.82	1,855.82	1,855.82	7.15	31.47	91.18	-6,842.40	4,404.53	8,139.42	8,100.80	38.62	210.751	
2,000.00	1,973.17	1,949.17	1,949.17	7.73	33.10	91.40	-6,842.40	4,404.53	8,140.28	8,099.45	40.84	199.334	
2,100.00	2,065.21	2,041.21	2,041.21	8.37	34.71	91.63	-6,842.40	4,404.53	8,141.41	8,098.32	43.08	188.969	
2,200.00	2,155.84	2,131.84	2,131.84	9.07	36.29	91.87	-6,842.40	4,404.53	8,142.83	8,097.47	45.36	179.514	
2,300.00	2,244.94	2,220.94	2,220.94	9.82	37.85	92.12	-6,842.40	4,404.53	8,144.60	8,096.93	47.67	170.852	
2,400.00	2,332.39	2,308.39	2,308.39	10.64	39.37	92.37	-6,842.40	4,404.53	8,146.78	8,096.76	50.01	162.889	
2,500.00	2,418.11	2,405.89	2,394.11	11.53	41.07	92.63	-6,842.40	4,404.53	8,149.40	8,096.80	52.60	154.938	
2,558.91	2,467.74	2,443.74	2,443.74	12.08	41.73	92.78	-6,842.40	4,404.53	8,151.18	8,097.37	53.81	151.488	
2,600.00	2,502.13	2,478.13	2,478.13	12.47	42.34	92.92	-6,842.40	4,404.53	8,152.52	8,097.71	54.80	148.766	
2,700.00	2,585.83	2,561.83	2,561.83	13.45	43.80	93.24	-6,842.40	4,404.53	8,156.02	8,098.79	57.24	142.498	
2,800.00	2,669.53	2,645.53	2,645.53	14.44	45.26	93.56	-6,842.40	4,404.53	8,159.89	8,100.21	59.69	136.706	
2,900.00	2,753.22	2,729.22	2,729.22	15.46	46.72	93.88	-6,842.40	4,404.53	8,164.13	8,101.97	62.16	131.347	
3,000.00	2,836.92	2,812.92	2,812.92	16.48	48.18	94.20	-6,842.40	4,404.53	8,168.73	8,104.10	64.64	126.381	
3,100.00	2,920.62	2,903.38	2,896.62	17.52	49.76	94.52	-6,842.40	4,404.53	8,173.70	8,106.46	67.24	121.557	
3,200.00	3,004.32	2,980.32	2,980.32	18.56	51.10	94.84	-6,842.40	4,404.53	8,179.03	8,109.41	69.62	117.484	
3,300.00	3,088.01	3,064.01	3,064.01	19.61	52.56	95.16	-6,842.40	4,404.53	8,184.72	8,112.60	72.12	113.490	
3,400.00	3,171.71	3,147.71	3,147.71	20.67	54.02	95.48	-6,842.40	4,404.53	8,190.77	8,116.15	74.62	109.762	
3,500.00	3,255.41	3,231.41	3,231.41	21.73	55.48	95.80	-6,842.40	4,404.53	8,197.19	8,120.05	77.13	106.276	
3,600.00	3,339.10	3,315.10	3,315.10	22.80	56.94	96.12	-6,842.40	4,404.53	8,203.96	8,124.32	79.64	103.011	
3,700.00	3,422.80	3,401.20	3,398.80	23.87	58.45	96.44	-6,842.40	4,404.53	8,211.09	8,128.90	82.20	99.897	
3,800.00	3,506.50	3,482.50	3,482.50	24.94	59.86	96.76	-6,842.40	4,404.53	8,218.58	8,133.91	84.67	97.069	
3,900.00	3,590.20	3,566.20	3,566.20	26.02	61.33	97.07	-6,842.40	4,404.53	8,226.43	8,139.25	87.18	94.360	
4,000.00	3,673.89	3,649.89	3,649.89	27.10	62.79	97.39	-6,842.40	4,404.53	8,234.64	8,144.94	89.70	91.806	
4,100.00	3,757.59	3,733.59	3,733.59	28.18	64.25	97.71	-6,842.40	4,404.53	8,243.19	8,150.98	92.21	89.396	
4,200.00	3,841.29	3,817.29	3,817.29	29.26	65.71	98.03	-6,842.40	4,404.53	8,252.11	8,157.38	94.72	87.118	
4,300.00	3,924.99	3,900.99	3,900.99	30.35	67.17	98.34	-6,842.40	4,404.53	8,261.37	8,164.14	97.24	84.962	
4,400.00	4,008.68	3,984.68	3,984.68	31.44	68.63	98.66	-6,842.40	4,404.53	8,270.99	8,171.25	99.75	82.919	
4,500.00	4,092.38	4,068.38	4,068.38	32.52	70.09	98.97	-6,842.40	4,404.53	8,280.96	8,178.70	102.26	80.982	
4,600.00	4,176.08	4,152.08	4,152.08	33.62	71.55	99.29	-6,842.40	4,404.53	8,291.28	8,186.51	104.77	79.141	
4,700.00	4,259.77	4,235.77	4,235.77	34.71	73.01	99.60	-6,842.40	4,404.53	8,301.95	8,194.67	107.27	77.392	
4,800.00	4,343.47	4,319.47	4,319.47	35.80	74.47	99.91	-6,842.40	4,404.53	8,312.96	8,203.18	109.78	75.727	
4,900.00	4,427.17	4,403.17	4,403.17	36.89	75.93	100.23	-6,842.40	4,404.53	8,324.32	8,212.04	112.28	74.141	
5,000.00	4,510.87	4,486.87	4,486.87	37.99	77.39	100.54	-6,842.40	4,404.53	8,336.02	8,221.24	114.78	72.628	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	4,570.56	4,570.56	39.08	78.86	100.85	-6,842.40	4,404.53	8,348.06	8,230.79	117.27	71.185	
5,200.00	4,678.26	4,654.26	4,654.26	40.18	80.32	101.16	-6,842.40	4,404.53	8,360.44	8,240.68	119.77	69.806	
5,300.00	4,761.96	4,737.96	4,737.96	41.28	81.78	101.47	-6,842.40	4,404.53	8,373.17	8,250.91	122.26	68.488	
5,400.00	4,845.66	4,821.66	4,821.66	42.37	83.24	101.78	-6,842.40	4,404.53	8,386.23	8,261.49	124.75	67.227	
5,500.00	4,929.35	4,905.35	4,905.35	43.47	84.70	102.09	-6,842.40	4,404.53	8,399.63	8,272.40	127.23	66.019	
5,600.00	5,013.05	4,989.05	4,989.05	44.57	86.16	102.40	-6,842.40	4,404.53	8,413.36	8,283.65	129.71	64.862	
5,700.00	5,096.75	5,050.00	5,050.00	45.67	87.22	102.62	-6,842.40	4,404.53	8,427.46	8,295.67	131.79	63.947	
5,800.00	5,180.45	5,050.00	5,050.00	46.77	87.22	102.62	-6,842.40	4,404.53	8,442.49	8,309.72	132.78	63.584	
5,900.00	5,264.14	5,050.00	5,050.00	47.87	87.22	102.62	-6,842.40	4,404.53	8,458.69	8,324.94	133.75	63.244	
6,000.00	5,347.84	5,050.00	5,050.00	48.97	87.22	102.62	-6,842.40	4,404.53	8,476.03	8,341.33	134.70	62.925	
6,100.00	5,431.54	5,050.00	5,050.00	50.07	87.22	102.62	-6,842.40	4,404.53	8,494.51	8,358.88	135.64	62.627	
6,200.00	5,515.23	5,050.00	5,050.00	51.17	87.22	102.62	-6,842.40	4,404.53	8,514.13	8,377.58	136.56	62.349	
6,300.00	5,598.93	5,050.00	5,050.00	52.27	87.22	102.62	-6,842.40	4,404.53	8,534.88	8,397.42	137.46	62.092	
6,400.00	5,682.63	5,050.00	5,050.00	53.38	87.22	102.62	-6,842.40	4,404.53	8,556.74	8,418.40	138.34	61.854	
6,500.00	5,766.33	5,050.00	5,050.00	54.48	87.22	102.62	-6,842.40	4,404.53	8,579.71	8,440.51	139.20	61.636	
6,600.00	5,850.02	5,050.00	5,050.00	55.58	87.22	102.62	-6,842.40	4,404.53	8,603.79	8,463.74	140.05	61.436	
6,700.00	5,933.72	5,050.00	5,050.00	56.68	87.22	102.62	-6,842.40	4,404.53	8,628.95	8,488.08	140.87	61.254	
6,800.00	6,017.42	5,050.00	5,050.00	57.79	87.22	102.62	-6,842.40	4,404.53	8,655.20	8,513.52	141.68	61.089	
6,900.00	6,101.12	5,050.00	5,050.00	58.89	87.22	102.62	-6,842.40	4,404.53	8,682.52	8,540.05	142.47	60.943	
7,000.00	6,184.81	5,050.00	5,050.00	59.99	87.22	102.62	-6,842.40	4,404.53	8,710.90	8,567.66	143.24	60.812	
7,100.00	6,268.51	5,050.00	5,050.00	61.10	87.22	102.62	-6,842.40	4,404.53	8,740.34	8,596.34	144.00	60.699	
7,200.00	6,352.21	5,050.00	5,050.00	62.20	87.22	102.62	-6,842.40	4,404.53	8,770.82	8,626.09	144.73	60.601	
7,300.00	6,435.90	5,050.00	5,050.00	63.31	87.22	102.62	-6,842.40	4,404.53	8,802.32	8,656.88	145.45	60.519	
7,400.00	6,519.60	5,050.00	5,050.00	64.41	87.22	102.62	-6,842.40	4,404.53	8,834.85	8,688.70	146.15	60.452	
7,500.00	6,603.30	5,050.00	5,050.00	65.51	87.22	102.62	-6,842.40	4,404.53	8,868.38	8,721.56	146.83	60.400	
7,600.00	6,687.00	5,050.00	5,050.00	66.62	87.22	102.62	-6,842.40	4,404.53	8,902.92	8,755.43	147.49	60.363	
7,700.00	6,770.69	5,050.00	5,050.00	67.72	87.22	102.62	-6,842.40	4,404.53	8,938.43	8,790.30	148.14	60.339	
7,800.00	6,854.39	5,050.00	5,050.00	68.83	87.22	102.62	-6,842.40	4,404.53	8,974.92	8,826.16	148.76	60.330	
7,900.00	6,938.09	5,050.00	5,050.00	69.93	87.22	102.62	-6,842.40	4,404.53	9,012.38	8,863.00	149.38	60.334	
7,933.18	6,965.86	5,050.00	5,050.00	70.30	87.22	102.62	-6,842.40	4,404.53	9,025.02	8,875.44	149.57	60.338	
7,950.00	6,980.00	5,050.00	5,050.00	70.49	87.22	100.48	-6,842.40	4,404.53	9,031.24	8,881.57	149.67	60.339	
8,000.00	7,022.68	5,050.00	5,050.00	71.01	87.22	93.37	-6,842.40	4,404.53	9,047.27	8,897.31	149.96	60.330	
8,050.00	7,066.06	5,050.00	5,050.00	71.51	87.22	85.25	-6,842.40	4,404.53	9,059.53	8,909.29	150.24	60.302	
8,100.00	7,109.82	5,050.00	5,050.00	71.97	87.22	76.48	-6,842.40	4,404.53	9,067.92	8,917.43	150.49	60.255	
8,150.00	7,153.63	5,050.00	5,050.00	72.38	87.22	67.53	-6,842.40	4,404.53	9,072.40	8,921.68	150.72	60.193	
8,200.00	7,197.14	5,050.00	5,050.00	72.74	87.22	58.91	-6,842.40	4,404.53	9,072.94	8,922.02	150.92	60.116	
8,250.00	7,240.04	5,050.00	5,050.00	73.05	87.22	51.01	-6,842.40	4,404.53	9,069.54	8,918.44	151.10	60.025	
8,300.00	7,281.99	5,050.00	5,050.00	73.31	87.22	44.00	-6,842.40	4,404.53	9,062.22	8,910.98	151.24	59.921	
8,350.00	7,322.67	5,050.00	5,050.00	73.52	87.22	37.90	-6,842.40	4,404.53	9,051.02	8,899.68	151.34	59.805	
8,400.00	7,361.77	5,050.00	5,050.00	73.68	87.22	32.63	-6,842.40	4,404.53	9,036.01	8,884.60	151.41	59.677	
8,450.00	7,399.01	5,050.00	5,050.00	73.78	87.22	28.05	-6,842.40	4,404.53	9,017.30	8,865.85	151.46	59.537	
8,500.00	7,434.08	5,050.00	5,050.00	73.85	87.22	24.01	-6,842.40	4,404.53	8,995.00	8,843.53	151.47	59.386	
8,550.00	7,466.74	5,050.00	5,050.00	73.87	87.22	20.37	-6,842.40	4,404.53	8,969.25	8,817.80	151.45	59.223	
8,600.00	7,496.72	5,050.00	5,050.00	73.85	87.22	17.00	-6,842.40	4,404.53	8,940.23	8,788.82	151.41	59.048	
8,650.00	7,523.80	5,050.00	5,050.00	73.79	87.22	13.75	-6,842.40	4,404.53	8,908.11	8,756.78	151.34	58.863	
8,700.00	7,547.77	5,050.00	5,050.00	73.70	87.22	10.48	-6,842.40	4,404.53	8,873.12	8,721.88	151.25	58.666	
8,750.00	7,568.45	5,050.00	5,050.00	73.58	87.22	7.03	-6,842.40	4,404.53	8,835.49	8,684.35	151.14	58.460	
8,800.00	7,585.69	5,050.00	5,050.00	73.43	87.22	3.18	-6,842.40	4,404.53	8,795.47	8,644.45	151.01	58.242	
8,850.00	7,599.35	5,050.00	5,050.00	73.26	87.22	-1.34	-6,842.40	4,404.53	8,753.33	8,602.45	150.88	58.015	
8,900.00	7,609.33	5,050.00	5,050.00	73.07	87.22	-6.94	-6,842.40	4,404.53	8,709.38	8,558.64	150.74	57.779	
8,950.00	7,615.55	5,050.00	5,050.00	72.87	87.22	-14.21	-6,842.40	4,404.53	8,663.91	8,513.32	150.59	57.535	
9,000.00	7,617.97	5,050.00	5,050.00	72.65	87.22	-23.96	-6,842.40	4,404.53	8,617.25	8,466.82	150.44	57.282	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,006.60	7,618.00	5,050.00	5,050.00	72.62	87.22	-25.47	-6,842.40	4,404.53	8,611.02	8,460.60	150.42	57.248	
9,100.00	7,618.00	5,050.00	5,050.00	72.22	87.22	-25.47	-6,842.40	4,404.53	8,522.82	8,372.69	150.13	56.769	
9,200.00	7,618.00	5,050.00	5,050.00	71.80	87.22	-25.47	-6,842.40	4,404.53	8,428.51	8,278.69	149.82	56.258	
9,300.00	7,618.00	5,050.00	5,050.00	71.41	87.22	-25.47	-6,842.40	4,404.53	8,334.33	8,184.83	149.50	55.747	
9,400.00	7,618.00	5,050.00	5,050.00	71.04	87.22	-25.47	-6,842.40	4,404.53	8,240.29	8,091.11	149.18	55.238	
9,500.00	7,618.00	5,050.00	5,050.00	70.68	87.22	-25.47	-6,842.40	4,404.53	8,146.39	7,997.54	148.85	54.730	
9,600.00	7,618.00	5,050.00	5,050.00	70.35	87.22	-25.47	-6,842.40	4,404.53	8,052.64	7,904.13	148.51	54.223	
9,700.00	7,618.00	5,050.00	5,050.00	70.04	87.22	-25.47	-6,842.40	4,404.53	7,959.04	7,810.87	148.17	53.717	
9,800.00	7,618.00	5,050.00	5,050.00	69.75	87.22	-25.47	-6,842.40	4,404.53	7,865.60	7,717.78	147.82	53.212	
9,900.00	7,618.00	5,050.00	5,050.00	69.47	87.22	-25.47	-6,842.40	4,404.53	7,772.32	7,624.86	147.46	52.708	
10,000.00	7,618.00	5,050.00	5,050.00	69.22	87.22	-25.47	-6,842.40	4,404.53	7,679.21	7,532.11	147.10	52.206	
10,100.00	7,618.00	5,050.00	5,050.00	68.99	87.22	-25.47	-6,842.40	4,404.53	7,586.27	7,439.55	146.72	51.704	
10,200.00	7,618.00	5,050.00	5,050.00	68.78	87.22	-25.47	-6,842.40	4,404.53	7,493.52	7,347.17	146.34	51.205	
10,300.00	7,618.00	5,050.00	5,050.00	68.59	87.22	-25.47	-6,842.40	4,404.53	7,400.95	7,255.00	145.96	50.706	
10,400.00	7,618.00	5,050.00	5,050.00	68.42	87.22	-25.47	-6,842.40	4,404.53	7,308.59	7,163.02	145.56	50.209	
10,500.00	7,618.00	5,050.00	5,050.00	68.28	87.22	-25.47	-6,842.40	4,404.53	7,216.42	7,071.26	145.16	49.713	
10,600.00	7,618.00	5,050.00	5,050.00	68.16	87.22	-25.47	-6,842.40	4,404.53	7,124.47	6,979.72	144.75	49.219	
10,700.00	7,618.00	5,050.00	5,050.00	68.06	87.22	-25.47	-6,842.40	4,404.53	7,032.73	6,888.40	144.33	48.726	
10,800.00	7,618.00	5,050.00	5,050.00	67.99	87.22	-25.47	-6,842.40	4,404.53	6,941.23	6,797.32	143.91	48.235	
10,900.00	7,618.00	5,050.00	5,050.00	67.95	87.22	-25.47	-6,842.40	4,404.53	6,849.96	6,706.49	143.47	47.745	
11,000.00	7,618.00	5,050.00	5,050.00	67.95	87.22	-25.47	-6,842.40	4,404.53	6,758.94	6,615.91	143.03	47.257	
11,100.00	7,618.00	5,050.00	5,050.00	67.97	87.22	-25.47	-6,842.40	4,404.53	6,668.17	6,525.60	142.57	46.770	
11,200.00	7,618.00	5,050.00	5,050.00	68.04	87.22	-25.47	-6,842.40	4,404.53	6,577.68	6,435.56	142.11	46.285	
11,300.00	7,618.00	5,050.00	5,050.00	68.15	87.22	-25.47	-6,842.40	4,404.53	6,487.46	6,345.82	141.64	45.801	
11,400.00	7,618.00	5,050.00	5,050.00	68.30	87.22	-25.47	-6,842.40	4,404.53	6,397.53	6,256.37	141.16	45.320	
11,500.00	7,618.00	5,050.00	5,050.00	68.50	87.22	-25.47	-6,842.40	4,404.53	6,307.91	6,167.23	140.68	44.839	
11,600.00	7,618.00	5,050.00	5,050.00	68.75	87.22	-25.47	-6,842.40	4,404.53	6,218.61	6,078.42	140.18	44.361	
11,700.00	7,618.00	5,050.00	5,050.00	69.06	87.22	-25.47	-6,842.40	4,404.53	6,129.63	5,989.95	139.68	43.884	
11,800.00	7,618.00	5,050.00	5,050.00	69.44	87.22	-25.47	-6,842.40	4,404.53	6,041.00	5,901.83	139.17	43.409	
11,900.00	7,618.00	5,050.00	5,050.00	69.88	87.22	-25.47	-6,842.40	4,404.53	5,952.73	5,814.08	138.64	42.935	
12,000.00	7,618.00	5,050.00	5,050.00	70.39	87.22	-25.47	-6,842.40	4,404.53	5,864.83	5,726.72	138.12	42.463	
12,100.00	7,618.00	5,050.00	5,050.00	70.97	87.22	-25.47	-6,842.40	4,404.53	5,777.33	5,639.75	137.58	41.993	
12,200.00	7,618.00	5,050.00	5,050.00	71.63	87.22	-25.47	-6,842.40	4,404.53	5,690.24	5,553.21	137.03	41.524	
12,300.00	7,618.00	5,050.00	5,050.00	72.35	87.22	-25.47	-6,842.40	4,404.53	5,603.59	5,467.10	136.48	41.057	
12,400.00	7,618.00	5,050.00	5,050.00	73.15	87.22	-25.47	-6,842.40	4,404.53	5,517.38	5,381.45	135.93	40.591	
12,500.00	7,618.00	5,050.00	5,050.00	74.01	87.22	-25.47	-6,842.40	4,404.53	5,431.65	5,296.28	135.36	40.126	
12,600.00	7,618.00	5,050.00	5,050.00	74.93	87.22	-25.47	-6,842.40	4,404.53	5,346.41	5,211.61	134.80	39.663	
12,700.00	7,618.00	5,050.00	5,050.00	75.91	87.22	-25.47	-6,842.40	4,404.53	5,261.69	5,127.47	134.22	39.201	
12,800.00	7,618.00	5,050.00	5,050.00	76.95	87.22	-25.47	-6,842.40	4,404.53	5,177.52	5,043.87	133.65	38.740	
12,900.00	7,618.00	5,050.00	5,050.00	78.04	87.22	-25.47	-6,842.40	4,404.53	5,093.92	4,960.85	133.07	38.279	
13,000.00	7,618.00	5,050.00	5,050.00	79.16	87.22	-25.47	-6,842.40	4,404.53	5,010.92	4,878.42	132.50	37.819	
13,100.00	7,618.00	5,050.00	5,050.00	80.33	87.22	-25.47	-6,842.40	4,404.53	4,928.55	4,796.63	131.92	37.360	
13,200.00	7,618.00	5,050.00	5,050.00	81.54	87.22	-25.47	-6,842.40	4,404.53	4,846.85	4,715.50	131.35	36.901	
13,300.00	7,618.00	5,050.00	5,050.00	82.78	87.22	-25.47	-6,842.40	4,404.53	4,765.84	4,635.06	130.78	36.442	
13,400.00	7,618.00	5,050.00	5,050.00	84.05	87.22	-25.47	-6,842.40	4,404.53	4,685.57	4,555.35	130.22	35.983	
13,500.00	7,618.00	5,050.00	5,050.00	85.35	87.22	-25.47	-6,842.40	4,404.53	4,606.06	4,476.40	129.66	35.524	
13,600.00	7,618.00	5,050.00	5,050.00	86.67	87.22	-25.47	-6,842.40	4,404.53	4,527.38	4,398.26	129.12	35.063	
13,700.00	7,618.00	5,050.00	5,050.00	88.02	87.22	-25.47	-6,842.40	4,404.53	4,449.54	4,320.95	128.59	34.602	
13,800.00	7,618.00	5,050.00	5,050.00	89.38	87.22	-25.47	-6,842.40	4,404.53	4,372.61	4,244.53	128.08	34.140	
13,900.00	7,618.00	5,050.00	5,050.00	90.77	87.22	-25.47	-6,842.40	4,404.53	4,296.63	4,169.04	127.59	33.675	
14,000.00	7,618.00	5,050.00	5,050.00	92.17	87.22	-25.47	-6,842.40	4,404.53	4,221.65	4,094.53	127.12	33.209	
14,100.00	7,618.00	5,050.00	5,050.00	93.59	87.22	-25.47	-6,842.40	4,404.53	4,147.73	4,021.05	126.68	32.741	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,618.00	5,050.00	5,050.00	95.02	87.22	-25.47	-6,842.40	4,404.53	4,074.92	3,948.65	126.27	32.271	
14,300.00	7,618.00	5,050.00	5,050.00	96.47	87.22	-25.47	-6,842.40	4,404.53	4,003.28	3,877.39	125.90	31.798	
14,400.00	7,618.00	5,050.00	5,050.00	97.93	87.22	-25.47	-6,842.40	4,404.53	3,932.88	3,807.32	125.56	31.323	
14,500.00	7,618.00	5,050.00	5,050.00	99.41	87.22	-25.47	-6,842.40	4,404.53	3,863.79	3,738.53	125.26	30.846	
14,600.00	7,618.00	5,050.00	5,050.00	100.89	87.22	-25.47	-6,842.40	4,404.53	3,796.07	3,671.06	125.01	30.366	
14,700.00	7,618.00	5,050.00	5,050.00	102.38	87.22	-25.47	-6,842.40	4,404.53	3,729.81	3,605.00	124.81	29.884	
14,800.00	7,618.00	5,050.00	5,050.00	103.89	87.22	-25.47	-6,842.40	4,404.53	3,665.08	3,540.41	124.66	29.400	
14,900.00	7,618.00	5,050.00	5,050.00	105.40	87.22	-25.47	-6,842.40	4,404.53	3,601.96	3,477.39	124.57	28.915	
15,000.00	7,618.00	5,050.00	5,050.00	106.92	87.22	-25.47	-6,842.40	4,404.53	3,540.53	3,416.00	124.54	28.430	
15,100.00	7,618.00	5,050.00	5,050.00	108.45	87.22	-25.47	-6,842.40	4,404.53	3,480.90	3,356.34	124.57	27.944	
15,200.00	7,618.00	5,050.00	5,050.00	109.99	87.22	-25.47	-6,842.40	4,404.53	3,423.16	3,298.50	124.66	27.460	
15,300.00	7,618.00	5,050.00	5,050.00	111.54	87.22	-25.47	-6,842.40	4,404.53	3,367.39	3,242.56	124.82	26.978	
15,400.00	7,618.00	5,050.00	5,050.00	113.09	87.22	-25.47	-6,842.40	4,404.53	3,313.70	3,188.64	125.05	26.498	
15,500.00	7,618.00	5,050.00	5,050.00	114.65	87.22	-25.47	-6,842.40	4,404.53	3,262.19	3,136.83	125.36	26.023	
15,600.00	7,618.00	5,050.00	5,050.00	116.21	87.22	-25.47	-6,842.40	4,404.53	3,212.97	3,087.24	125.74	25.553	
15,700.00	7,618.00	5,050.00	5,050.00	117.78	87.22	-25.47	-6,842.40	4,404.53	3,166.15	3,039.96	126.19	25.090	
15,800.00	7,618.00	5,050.00	5,050.00	119.36	87.22	-25.47	-6,842.40	4,404.53	3,121.83	2,995.11	126.72	24.635	
15,900.00	7,618.00	5,050.00	5,050.00	120.94	87.22	-25.47	-6,842.40	4,404.53	3,080.12	2,952.78	127.33	24.189	
16,000.00	7,618.00	5,050.00	5,050.00	122.53	87.22	-25.47	-6,842.40	4,404.53	3,041.12	2,913.09	128.03	23.753	
16,100.00	7,618.00	5,050.00	5,050.00	124.12	87.22	-25.47	-6,842.40	4,404.53	3,004.95	2,876.14	128.81	23.328	
16,200.00	7,618.00	5,050.00	5,050.00	125.72	87.22	-25.47	-6,842.40	4,404.53	2,971.70	2,842.02	129.69	22.914	
16,300.00	7,618.00	5,050.00	5,050.00	127.32	87.22	-25.47	-6,842.40	4,404.53	2,941.48	2,810.83	130.66	22.513	
16,400.00	7,618.00	5,050.00	5,050.00	128.93	87.22	-25.47	-6,842.40	4,404.53	2,914.38	2,782.65	131.73	22.124	
16,500.00	7,618.00	5,050.00	5,050.00	130.54	87.22	-25.47	-6,842.40	4,404.53	2,890.49	2,757.58	132.91	21.748	
16,600.00	7,618.00	5,050.00	5,050.00	132.15	87.22	-25.47	-6,842.40	4,404.53	2,869.89	2,735.68	134.20	21.385	
16,700.00	7,618.00	5,050.00	5,050.00	133.77	87.22	-25.47	-6,842.40	4,404.53	2,852.64	2,717.02	135.62	21.035	
16,800.00	7,618.00	5,050.00	5,050.00	135.39	87.22	-25.47	-6,842.40	4,404.53	2,838.81	2,701.66	137.15	20.698	
16,900.00	7,618.00	5,050.00	5,050.00	137.01	87.22	-25.47	-6,842.40	4,404.53	2,828.45	2,689.63	138.82	20.375	
17,000.00	7,618.00	5,050.00	5,050.00	138.64	87.22	-25.47	-6,842.40	4,404.53	2,821.61	2,680.99	140.62	20.066	
17,100.00	7,618.00	5,050.00	5,050.00	140.27	87.22	-25.47	-6,842.40	4,404.53	2,818.29	2,675.75	142.54	19.772	
17,143.48	7,618.00	5,050.00	5,050.00	140.99	87.22	-25.47	-6,842.40	4,404.53	2,817.96	2,674.54	143.41	19.650	CC
17,200.00	7,618.00	5,050.00	5,050.00	141.91	87.22	-25.47	-6,842.40	4,404.53	2,818.52	2,673.94	144.58	19.495	ES
17,300.00	7,618.00	5,050.00	5,050.00	143.55	87.22	-25.47	-6,842.40	4,404.53	2,822.30	2,675.57	146.73	19.235	
17,400.00	7,618.00	5,050.00	5,050.00	145.19	87.22	-25.47	-6,842.40	4,404.53	2,829.61	2,680.64	148.97	18.995	
17,500.00	7,618.00	5,050.00	5,050.00	146.83	87.22	-25.47	-6,842.40	4,404.53	2,840.42	2,689.13	151.28	18.775	
17,600.00	7,618.00	5,050.00	5,050.00	148.48	87.22	-25.47	-6,842.40	4,404.53	2,854.69	2,701.04	153.65	18.579	
17,700.00	7,618.00	5,050.00	5,050.00	150.13	87.22	-25.47	-6,842.40	4,404.53	2,872.38	2,716.33	156.05	18.407	
17,800.00	7,618.00	5,050.00	5,050.00	151.78	87.22	-25.47	-6,842.40	4,404.53	2,893.42	2,734.96	158.46	18.260	
17,900.00	7,618.00	5,050.00	5,050.00	153.43	87.22	-25.47	-6,842.40	4,404.53	2,917.74	2,756.89	160.85	18.139	
18,000.00	7,618.00	5,050.00	5,050.00	155.09	87.22	-25.47	-6,842.40	4,404.53	2,945.25	2,782.04	163.21	18.046	
18,100.00	7,618.00	5,050.00	5,050.00	156.75	87.22	-25.47	-6,842.40	4,404.53	2,975.87	2,810.35	165.52	17.979	
18,200.00	7,618.00	5,050.00	5,050.00	158.41	87.22	-25.47	-6,842.40	4,404.53	3,009.50	2,841.74	167.76	17.939	
18,300.00	7,618.00	5,050.00	5,050.00	160.07	87.22	-25.47	-6,842.40	4,404.53	3,046.05	2,876.13	169.92	17.927	SF
18,400.00	7,618.00	5,050.00	5,050.00	161.74	87.22	-25.47	-6,842.40	4,404.53	3,085.40	2,913.41	171.99	17.940	
18,500.00	7,618.00	5,050.00	5,050.00	163.41	87.22	-25.47	-6,842.40	4,404.53	3,127.46	2,953.50	173.96	17.978	
18,600.00	7,618.00	5,050.00	5,050.00	165.08	87.22	-25.47	-6,842.40	4,404.53	3,172.12	2,996.28	175.83	18.041	
18,700.00	7,618.00	5,050.00	5,050.00	166.75	87.22	-25.47	-6,842.40	4,404.53	3,219.26	3,041.66	177.60	18.127	
18,711.30	7,618.00	5,050.00	5,050.00	166.94	87.22	-25.47	-6,842.40	4,404.53	3,224.74	3,046.95	177.79	18.138	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	151.77	-8,182.62	4,392.45	9,287.08				
100.00	100.00	67.00	67.00	0.13	0.56	151.77	-8,182.62	4,392.45	9,287.02	9,286.33	0.69	N/A	
200.00	200.00	167.00	167.00	0.49	2.00	151.77	-8,182.62	4,392.45	9,287.02	9,284.53	2.49	3,727.780	
300.00	300.00	267.00	267.00	0.85	3.74	151.77	-8,182.62	4,392.45	9,287.02	9,282.43	4.60	2,021.070	
400.00	400.00	367.00	367.00	1.21	5.49	151.77	-8,182.62	4,392.45	9,287.02	9,280.33	6.70	1,386.350	
500.00	500.00	467.00	467.00	1.57	7.23	151.77	-8,182.62	4,392.45	9,287.02	9,278.22	8.80	1,055.019	
600.00	600.00	567.00	567.00	1.93	8.98	151.77	-8,182.62	4,392.45	9,287.02	9,276.12	10.91	851.512	
700.00	700.00	667.00	667.00	2.29	10.73	151.77	-8,182.62	4,392.45	9,287.02	9,274.01	13.01	713.821	
800.00	800.00	767.00	767.00	2.64	12.47	151.77	-8,182.62	4,392.45	9,287.02	9,271.91	15.11	614.461	
900.00	900.00	867.00	867.00	3.00	14.22	151.77	-8,182.62	4,392.45	9,287.02	9,269.81	17.22	539.382	
1,000.00	999.98	966.98	966.98	3.36	15.96	94.59	-8,182.62	4,392.45	9,287.16	9,267.85	19.32	480.762	
1,100.00	1,099.84	1,066.84	1,066.84	3.71	17.70	94.61	-8,182.62	4,392.45	9,287.58	9,266.17	21.41	433.719	
1,200.00	1,199.45	1,166.45	1,166.45	4.07	19.44	94.65	-8,182.62	4,392.45	9,288.29	9,264.78	23.51	395.054	
1,300.00	1,298.70	1,265.70	1,265.70	4.44	21.17	94.71	-8,182.62	4,392.45	9,289.29	9,263.68	25.61	362.689	
1,400.00	1,397.47	1,364.47	1,364.47	4.82	22.90	94.78	-8,182.62	4,392.45	9,290.60	9,262.88	27.72	335.171	
1,500.00	1,495.62	1,462.62	1,462.62	5.22	24.61	94.86	-8,182.62	4,392.45	9,292.24	9,262.40	29.83	311.454	
1,600.00	1,593.06	1,560.06	1,560.06	5.65	26.31	94.95	-8,182.62	4,392.45	9,294.21	9,262.25	31.96	290.773	
1,700.00	1,689.64	1,656.64	1,656.64	6.11	28.00	95.06	-8,182.62	4,392.45	9,296.55	9,262.44	34.11	272.553	
1,800.00	1,785.27	1,752.27	1,752.27	6.61	29.67	95.18	-8,182.62	4,392.45	9,299.28	9,263.00	36.27	256.358	
1,900.00	1,879.82	1,846.82	1,846.82	7.15	31.32	95.30	-8,182.62	4,392.45	9,302.42	9,263.96	38.46	241.851	
2,000.00	1,973.17	1,940.17	1,940.17	7.73	32.95	95.44	-8,182.62	4,392.45	9,306.01	9,265.34	40.68	228.771	
2,100.00	2,065.21	2,032.21	2,032.21	8.37	34.55	95.58	-8,182.62	4,392.45	9,310.09	9,267.16	42.92	216.907	
2,200.00	2,155.84	2,122.84	2,122.84	9.07	36.13	95.72	-8,182.62	4,392.45	9,314.67	9,269.48	45.20	206.094	
2,300.00	2,244.94	2,211.94	2,211.94	9.82	37.69	95.87	-8,182.62	4,392.45	9,319.81	9,272.31	47.50	196.197	
2,400.00	2,332.39	2,300.61	2,299.39	10.64	39.24	96.01	-8,182.62	4,392.45	9,325.54	9,275.68	49.86	187.027	
2,500.00	2,418.11	2,385.11	2,385.11	11.53	40.71	96.16	-8,182.62	4,392.45	9,331.90	9,279.68	52.21	178.729	
2,558.91	2,467.74	2,434.74	2,434.74	12.08	41.58	96.24	-8,182.62	4,392.45	9,335.95	9,282.33	53.62	174.101	
2,600.00	2,502.13	2,469.13	2,469.13	12.47	42.18	96.35	-8,182.62	4,392.45	9,338.89	9,284.28	54.61	170.998	
2,700.00	2,585.83	2,552.83	2,552.83	13.45	43.64	96.63	-8,182.62	4,392.45	9,346.27	9,289.22	57.04	163.851	
2,800.00	2,669.53	2,636.53	2,636.53	14.44	45.10	96.91	-8,182.62	4,392.45	9,353.95	9,294.47	59.49	157.248	
2,900.00	2,753.22	2,720.22	2,720.22	15.46	46.56	97.19	-8,182.62	4,392.45	9,361.96	9,300.01	61.94	151.137	
3,000.00	2,836.92	2,803.92	2,803.92	16.48	48.02	97.47	-8,182.62	4,392.45	9,370.27	9,305.86	64.41	145.473	
3,100.00	2,920.62	2,887.62	2,887.62	17.52	49.48	97.75	-8,182.62	4,392.45	9,378.90	9,312.01	66.89	140.215	
3,200.00	3,004.32	2,971.32	2,971.32	18.56	50.94	98.03	-8,182.62	4,392.45	9,387.83	9,318.46	69.37	135.324	
3,300.00	3,088.01	3,055.01	3,055.01	19.61	52.40	98.31	-8,182.62	4,392.45	9,397.08	9,325.22	71.86	130.766	
3,400.00	3,171.71	3,138.71	3,138.71	20.67	53.86	98.58	-8,182.62	4,392.45	9,406.64	9,332.28	74.35	126.510	
3,500.00	3,255.41	3,222.41	3,222.41	21.73	55.33	98.86	-8,182.62	4,392.45	9,416.50	9,339.65	76.85	122.530	
3,600.00	3,339.10	3,306.10	3,306.10	22.80	56.79	99.14	-8,182.62	4,392.45	9,426.68	9,347.33	79.35	118.800	
3,700.00	3,422.80	3,389.80	3,389.80	23.87	58.25	99.41	-8,182.62	4,392.45	9,437.16	9,355.31	81.85	115.300	
3,800.00	3,506.50	3,473.50	3,473.50	24.94	59.71	99.69	-8,182.62	4,392.45	9,447.94	9,363.59	84.35	112.010	
3,900.00	3,590.20	3,557.20	3,557.20	26.02	61.17	99.96	-8,182.62	4,392.45	9,459.03	9,372.18	86.85	108.912	
4,000.00	3,673.89	3,640.89	3,640.89	27.10	62.63	100.24	-8,182.62	4,392.45	9,470.42	9,381.07	89.35	105.991	
4,100.00	3,757.59	3,724.59	3,724.59	28.18	64.09	100.51	-8,182.62	4,392.45	9,482.12	9,390.26	91.85	103.233	
4,200.00	3,841.29	3,808.29	3,808.29	29.26	65.55	100.79	-8,182.62	4,392.45	9,494.11	9,399.76	94.35	100.625	
4,300.00	3,924.99	3,908.01	3,891.99	30.35	67.29	101.06	-8,182.62	4,392.45	9,506.41	9,409.28	97.13	97.872	
4,400.00	4,008.68	3,975.68	3,975.68	31.44	68.47	101.33	-8,182.62	4,392.45	9,519.00	9,419.65	99.35	95.814	
4,500.00	4,092.38	4,059.38	4,059.38	32.52	69.93	101.60	-8,182.62	4,392.45	9,531.89	9,430.05	101.85	93.592	
4,600.00	4,176.08	4,143.08	4,143.08	33.62	71.39	101.88	-8,182.62	4,392.45	9,545.08	9,440.74	104.34	91.481	
4,700.00	4,259.77	4,226.77	4,226.77	34.71	72.85	102.15	-8,182.62	4,392.45	9,558.56	9,451.73	106.83	89.472	
4,800.00	4,343.47	4,310.47	4,310.47	35.80	74.32	102.42	-8,182.62	4,392.45	9,572.34	9,463.02	109.32	87.560	
4,900.00	4,427.17	4,405.83	4,394.17	36.89	75.98	102.69	-8,182.62	4,392.45	9,586.41	9,474.39	112.02	85.581	
5,000.00	4,510.87	4,477.87	4,477.87	37.99	77.24	102.96	-8,182.62	4,392.45	9,600.77	9,486.47	114.30	83.997	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	4,561.56	4,561.56	39.08	78.70	103.23	-8,182.62	4,392.45	9,615.42	9,498.64	116.78	82.336	
5,200.00	4,678.26	4,645.26	4,645.26	40.18	80.16	103.49	-8,182.62	4,392.45	9,630.36	9,511.10	119.26	80.749	
5,300.00	4,761.96	4,728.96	4,728.96	41.28	81.62	103.76	-8,182.62	4,392.45	9,645.59	9,523.84	121.74	79.230	
5,400.00	4,845.66	4,812.66	4,812.66	42.37	83.08	104.03	-8,182.62	4,392.45	9,661.10	9,536.88	124.22	77.775	
5,500.00	4,929.35	4,903.65	4,896.35	43.47	84.67	104.30	-8,182.62	4,392.45	9,676.90	9,550.08	126.82	76.305	
5,600.00	5,013.05	4,980.05	4,980.05	44.57	86.00	104.56	-8,182.62	4,392.45	9,692.98	9,563.82	129.16	75.046	
5,700.00	5,096.75	5,048.00	5,048.00	45.67	87.19	104.78	-8,182.62	4,392.45	9,709.35	9,578.00	131.35	73.920	
5,800.00	5,180.45	5,048.00	5,048.00	46.77	87.19	104.78	-8,182.62	4,392.45	9,726.49	9,594.16	132.33	73.501	
5,900.00	5,264.14	5,048.00	5,048.00	47.87	87.19	104.78	-8,182.62	4,392.45	9,744.63	9,611.33	133.30	73.103	
6,000.00	5,347.84	5,048.00	5,048.00	48.97	87.19	104.78	-8,182.62	4,392.45	9,763.75	9,629.50	134.25	72.726	
6,100.00	5,431.54	5,048.00	5,048.00	50.07	87.19	104.78	-8,182.62	4,392.45	9,783.86	9,648.67	135.19	72.369	
6,200.00	5,515.23	5,048.00	5,048.00	51.17	87.19	104.78	-8,182.62	4,392.45	9,804.95	9,668.83	136.12	72.032	
6,300.00	5,598.93	5,048.00	5,048.00	52.27	87.19	104.78	-8,182.62	4,392.45	9,827.01	9,689.98	137.03	71.714	
6,400.00	5,682.63	5,048.00	5,048.00	53.38	87.19	104.78	-8,182.62	4,392.45	9,850.04	9,712.11	137.93	71.414	
6,500.00	5,766.33	5,048.00	5,048.00	54.48	87.19	104.78	-8,182.62	4,392.45	9,874.02	9,735.21	138.81	71.133	
6,600.00	5,850.02	5,048.00	5,048.00	55.58	87.19	104.78	-8,182.62	4,392.45	9,898.96	9,759.28	139.68	70.869	
6,700.00	5,933.72	5,048.00	5,048.00	56.68	87.19	104.78	-8,182.62	4,392.45	9,924.84	9,784.31	140.53	70.623	
6,800.00	6,017.42	5,048.00	5,048.00	57.79	87.19	104.78	-8,182.62	4,392.45	9,951.66	9,810.29	141.37	70.394	
6,900.00	6,101.12	5,048.00	5,048.00	58.89	87.19	104.78	-8,182.62	4,392.45	9,979.42	9,837.22	142.20	70.181	
8,900.00	7,609.33	5,048.00	5,048.00	73.07	87.19	-4.79	-8,182.62	4,392.45	9,984.53	9,832.52	152.01	65.683	
8,950.00	7,615.55	5,048.00	5,048.00	72.87	87.19	-12.62	-8,182.62	4,392.45	9,938.22	9,786.32	151.90	65.425	
9,000.00	7,617.97	5,048.00	5,048.00	72.65	87.19	-23.63	-8,182.62	4,392.45	9,890.81	9,739.02	151.79	65.163	
9,006.60	7,618.00	5,048.00	5,048.00	72.62	87.19	-25.40	-8,182.62	4,392.45	9,884.49	9,732.71	151.77	65.128	
9,100.00	7,618.00	5,048.00	5,048.00	72.22	87.19	-25.40	-8,182.62	4,392.45	9,794.97	9,643.43	151.55	64.634	
9,200.00	7,618.00	5,048.00	5,048.00	71.80	87.19	-25.40	-8,182.62	4,392.45	9,699.21	9,547.91	151.30	64.105	
9,300.00	7,618.00	5,048.00	5,048.00	71.41	87.19	-25.40	-8,182.62	4,392.45	9,603.54	9,452.49	151.05	63.577	
9,400.00	7,618.00	5,048.00	5,048.00	71.04	87.19	-25.40	-8,182.62	4,392.45	9,507.96	9,357.16	150.80	63.050	
9,500.00	7,618.00	5,048.00	5,048.00	70.68	87.19	-25.40	-8,182.62	4,392.45	9,412.47	9,261.92	150.55	62.523	
9,600.00	7,618.00	5,048.00	5,048.00	70.35	87.19	-25.40	-8,182.62	4,392.45	9,317.07	9,166.78	150.28	61.996	
9,700.00	7,618.00	5,048.00	5,048.00	70.04	87.19	-25.40	-8,182.62	4,392.45	9,221.77	9,071.75	150.02	61.470	
9,800.00	7,618.00	5,048.00	5,048.00	69.75	87.19	-25.40	-8,182.62	4,392.45	9,126.57	8,976.82	149.75	60.945	
9,900.00	7,618.00	5,048.00	5,048.00	69.47	87.19	-25.40	-8,182.62	4,392.45	9,031.47	8,882.00	149.48	60.420	
10,000.00	7,618.00	5,048.00	5,048.00	69.22	87.19	-25.40	-8,182.62	4,392.45	8,936.49	8,787.29	149.20	59.896	
10,100.00	7,618.00	5,048.00	5,048.00	68.99	87.19	-25.40	-8,182.62	4,392.45	8,841.61	8,692.69	148.92	59.372	
10,200.00	7,618.00	5,048.00	5,048.00	68.78	87.19	-25.40	-8,182.62	4,392.45	8,746.84	8,598.21	148.63	58.849	
10,300.00	7,618.00	5,048.00	5,048.00	68.59	87.19	-25.40	-8,182.62	4,392.45	8,652.20	8,503.86	148.34	58.327	
10,400.00	7,618.00	5,048.00	5,048.00	68.42	87.19	-25.40	-8,182.62	4,392.45	8,557.68	8,409.63	148.04	57.805	
10,500.00	7,618.00	5,048.00	5,048.00	68.28	87.19	-25.40	-8,182.62	4,392.45	8,463.28	8,315.54	147.74	57.284	
10,600.00	7,618.00	5,048.00	5,048.00	68.16	87.19	-25.40	-8,182.62	4,392.45	8,369.01	8,221.57	147.44	56.764	
10,700.00	7,618.00	5,048.00	5,048.00	68.06	87.19	-25.40	-8,182.62	4,392.45	8,274.88	8,127.75	147.12	56.244	
10,800.00	7,618.00	5,048.00	5,048.00	67.99	87.19	-25.40	-8,182.62	4,392.45	8,180.88	8,034.07	146.81	55.725	
10,900.00	7,618.00	5,048.00	5,048.00	67.95	87.19	-25.40	-8,182.62	4,392.45	8,087.03	7,940.55	146.49	55.207	
11,000.00	7,618.00	5,048.00	5,048.00	67.95	87.19	-25.40	-8,182.62	4,392.45	7,993.33	7,847.17	146.16	54.689	
11,100.00	7,618.00	5,048.00	5,048.00	67.97	87.19	-25.40	-8,182.62	4,392.45	7,899.78	7,753.96	145.83	54.173	
11,200.00	7,618.00	5,048.00	5,048.00	68.04	87.19	-25.40	-8,182.62	4,392.45	7,806.40	7,660.91	145.49	53.657	
11,300.00	7,618.00	5,048.00	5,048.00	68.15	87.19	-25.40	-8,182.62	4,392.45	7,713.18	7,568.03	145.14	53.141	
11,400.00	7,618.00	5,048.00	5,048.00	68.30	87.19	-25.40	-8,182.62	4,392.45	7,620.13	7,475.33	144.80	52.627	
11,500.00	7,618.00	5,048.00	5,048.00	68.50	87.19	-25.40	-8,182.62	4,392.45	7,527.26	7,382.82	144.44	52.113	
11,600.00	7,618.00	5,048.00	5,048.00	68.75	87.19	-25.40	-8,182.62	4,392.45	7,434.57	7,290.49	144.08	51.600	
11,700.00	7,618.00	5,048.00	5,048.00	69.06	87.19	-25.40	-8,182.62	4,392.45	7,342.08	7,198.36	143.72	51.087	
11,800.00	7,618.00	5,048.00	5,048.00	69.44	87.19	-25.40	-8,182.62	4,392.45	7,249.78	7,106.44	143.35	50.576	
11,900.00	7,618.00	5,048.00	5,048.00	69.88	87.19	-25.40	-8,182.62	4,392.45	7,157.70	7,014.73	142.97	50.065	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,000.00	7,618.00	5,048.00	5,048.00	70.39	87.19	-25.40	-8,182.62	4,392.45	7,065.82	6,923.24	142.59	49.555	
12,100.00	7,618.00	5,048.00	5,048.00	70.97	87.19	-25.40	-8,182.62	4,392.45	6,974.17	6,831.98	142.20	49.045	
12,200.00	7,618.00	5,048.00	5,048.00	71.63	87.19	-25.40	-8,182.62	4,392.45	6,882.76	6,740.95	141.81	48.536	
12,300.00	7,618.00	5,048.00	5,048.00	72.35	87.19	-25.40	-8,182.62	4,392.45	6,791.58	6,650.18	141.41	48.028	
12,400.00	7,618.00	5,048.00	5,048.00	73.15	87.19	-25.40	-8,182.62	4,392.45	6,700.66	6,559.66	141.01	47.520	
12,500.00	7,618.00	5,048.00	5,048.00	74.01	87.19	-25.40	-8,182.62	4,392.45	6,610.00	6,469.40	140.60	47.013	
12,600.00	7,618.00	5,048.00	5,048.00	74.93	87.19	-25.40	-8,182.62	4,392.45	6,519.62	6,379.43	140.19	46.507	
12,700.00	7,618.00	5,048.00	5,048.00	75.91	87.19	-25.40	-8,182.62	4,392.45	6,429.51	6,289.74	139.77	46.001	
12,800.00	7,618.00	5,048.00	5,048.00	76.95	87.19	-25.40	-8,182.62	4,392.45	6,339.71	6,200.36	139.35	45.495	
12,900.00	7,618.00	5,048.00	5,048.00	78.04	87.19	-25.40	-8,182.62	4,392.45	6,250.21	6,111.29	138.92	44.990	
13,000.00	7,618.00	5,048.00	5,048.00	79.16	87.19	-25.40	-8,182.62	4,392.45	6,161.04	6,022.54	138.50	44.485	
13,100.00	7,618.00	5,048.00	5,048.00	80.33	87.19	-25.40	-8,182.62	4,392.45	6,072.20	5,934.14	138.07	43.980	
13,200.00	7,618.00	5,048.00	5,048.00	81.54	87.19	-25.40	-8,182.62	4,392.45	5,983.72	5,846.08	137.64	43.475	
13,300.00	7,618.00	5,048.00	5,048.00	82.78	87.19	-25.40	-8,182.62	4,392.45	5,895.60	5,758.40	137.20	42.970	
13,400.00	7,618.00	5,048.00	5,048.00	84.05	87.19	-25.40	-8,182.62	4,392.45	5,807.87	5,671.11	136.77	42.465	
13,500.00	7,618.00	5,048.00	5,048.00	85.35	87.19	-25.40	-8,182.62	4,392.45	5,720.55	5,584.22	136.33	41.960	
13,600.00	7,618.00	5,048.00	5,048.00	86.67	87.19	-25.40	-8,182.62	4,392.45	5,633.64	5,497.74	135.90	41.455	
13,700.00	7,618.00	5,048.00	5,048.00	88.02	87.19	-25.40	-8,182.62	4,392.45	5,547.18	5,411.71	135.47	40.948	
13,800.00	7,618.00	5,048.00	5,048.00	89.38	87.19	-25.40	-8,182.62	4,392.45	5,461.17	5,326.14	135.04	40.441	
13,900.00	7,618.00	5,048.00	5,048.00	90.77	87.19	-25.40	-8,182.62	4,392.45	5,375.66	5,241.04	134.62	39.934	
14,000.00	7,618.00	5,048.00	5,048.00	92.17	87.19	-25.40	-8,182.62	4,392.45	5,290.65	5,156.45	134.20	39.424	
14,100.00	7,618.00	5,048.00	5,048.00	93.59	87.19	-25.40	-8,182.62	4,392.45	5,206.17	5,072.38	133.79	38.914	
14,200.00	7,618.00	5,048.00	5,048.00	95.02	87.19	-25.40	-8,182.62	4,392.45	5,122.25	4,988.87	133.38	38.402	
14,300.00	7,618.00	5,048.00	5,048.00	96.47	87.19	-25.40	-8,182.62	4,392.45	5,038.92	4,905.92	132.99	37.889	
14,400.00	7,618.00	5,048.00	5,048.00	97.93	87.19	-25.40	-8,182.62	4,392.45	4,956.20	4,823.59	132.61	37.373	
14,500.00	7,618.00	5,048.00	5,048.00	99.41	87.19	-25.40	-8,182.62	4,392.45	4,874.14	4,741.88	132.25	36.855	
14,600.00	7,618.00	5,048.00	5,048.00	100.89	87.19	-25.40	-8,182.62	4,392.45	4,792.75	4,660.84	131.91	36.335	
14,700.00	7,618.00	5,048.00	5,048.00	102.38	87.19	-25.40	-8,182.62	4,392.45	4,712.08	4,580.50	131.58	35.812	
14,800.00	7,618.00	5,048.00	5,048.00	103.89	87.19	-25.40	-8,182.62	4,392.45	4,632.17	4,500.89	131.27	35.286	
14,900.00	7,618.00	5,048.00	5,048.00	105.40	87.19	-25.40	-8,182.62	4,392.45	4,553.04	4,422.05	130.99	34.758	
15,000.00	7,618.00	5,048.00	5,048.00	106.92	87.19	-25.40	-8,182.62	4,392.45	4,474.76	4,344.02	130.74	34.226	
15,100.00	7,618.00	5,048.00	5,048.00	108.45	87.19	-25.40	-8,182.62	4,392.45	4,397.35	4,266.83	130.52	33.691	
15,200.00	7,618.00	5,048.00	5,048.00	109.99	87.19	-25.40	-8,182.62	4,392.45	4,320.88	4,190.54	130.33	33.153	
15,300.00	7,618.00	5,048.00	5,048.00	111.54	87.19	-25.40	-8,182.62	4,392.45	4,245.38	4,115.20	130.18	32.611	
15,400.00	7,618.00	5,048.00	5,048.00	113.09	87.19	-25.40	-8,182.62	4,392.45	4,170.91	4,040.84	130.07	32.067	
15,500.00	7,618.00	5,048.00	5,048.00	114.65	87.19	-25.40	-8,182.62	4,392.45	4,097.53	3,967.53	130.00	31.520	
15,600.00	7,618.00	5,048.00	5,048.00	116.21	87.19	-25.40	-8,182.62	4,392.45	4,025.29	3,895.32	129.97	30.970	
15,700.00	7,618.00	5,048.00	5,048.00	117.78	87.19	-25.40	-8,182.62	4,392.45	3,954.27	3,824.27	130.00	30.418	
15,800.00	7,618.00	5,048.00	5,048.00	119.36	87.19	-25.40	-8,182.62	4,392.45	3,884.52	3,754.45	130.07	29.864	
15,900.00	7,618.00	5,048.00	5,048.00	120.94	87.19	-25.40	-8,182.62	4,392.45	3,816.12	3,685.92	130.20	29.309	
16,000.00	7,618.00	5,048.00	5,048.00	122.53	87.19	-25.40	-8,182.62	4,392.45	3,749.13	3,618.75	130.39	28.754	
16,100.00	7,618.00	5,048.00	5,048.00	124.12	87.19	-25.40	-8,182.62	4,392.45	3,683.65	3,553.02	130.63	28.200	
16,200.00	7,618.00	5,048.00	5,048.00	125.72	87.19	-25.40	-8,182.62	4,392.45	3,619.74	3,488.81	130.93	27.647	
16,300.00	7,618.00	5,048.00	5,048.00	127.32	87.19	-25.40	-8,182.62	4,392.45	3,557.49	3,426.20	131.29	27.096	
16,400.00	7,618.00	5,048.00	5,048.00	128.93	87.19	-25.40	-8,182.62	4,392.45	3,497.00	3,365.29	131.71	26.550	
16,500.00	7,618.00	5,048.00	5,048.00	130.54	87.19	-25.40	-8,182.62	4,392.45	3,438.35	3,306.15	132.20	26.009	
16,600.00	7,618.00	5,048.00	5,048.00	132.15	87.19	-25.40	-8,182.62	4,392.45	3,381.65	3,248.89	132.75	25.474	
16,700.00	7,618.00	5,048.00	5,048.00	133.77	87.19	-25.40	-8,182.62	4,392.45	3,326.98	3,193.61	133.37	24.946	
16,800.00	7,618.00	5,048.00	5,048.00	135.39	87.19	-25.40	-8,182.62	4,392.45	3,274.45	3,140.41	134.04	24.428	
16,900.00	7,618.00	5,048.00	5,048.00	137.01	87.19	-25.40	-8,182.62	4,392.45	3,224.17	3,089.39	134.79	23.921	
17,000.00	7,618.00	5,048.00	5,048.00	138.64	87.19	-25.40	-8,182.62	4,392.45	3,176.25	3,040.65	135.59	23.425	
17,100.00	7,618.00	5,048.00	5,048.00	140.27	87.19	-25.40	-8,182.62	4,392.45	3,130.78	2,994.32	136.46	22.942	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,200.00	7,618.00	5,048.00	5,048.00	141.91	87.19	-25.40	-8,182.62	4,392.45	3,087.89	2,950.49	137.40	22.474	
17,300.00	7,618.00	5,048.00	5,048.00	143.55	87.19	-25.40	-8,182.62	4,392.45	3,047.67	2,909.27	138.40	22.021	
17,400.00	7,618.00	5,048.00	5,048.00	145.19	87.19	-25.40	-8,182.62	4,392.45	3,010.24	2,870.77	139.47	21.583	
17,500.00	7,618.00	5,048.00	5,048.00	146.83	87.19	-25.40	-8,182.62	4,392.45	2,975.70	2,835.09	140.61	21.163	
17,600.00	7,618.00	5,048.00	5,048.00	148.48	87.19	-25.40	-8,182.62	4,392.45	2,944.16	2,802.33	141.83	20.759	
17,700.00	7,618.00	5,048.00	5,048.00	150.13	87.19	-25.40	-8,182.62	4,392.45	2,915.70	2,772.58	143.12	20.373	
17,800.00	7,618.00	5,048.00	5,048.00	151.78	87.19	-25.40	-8,182.62	4,392.45	2,890.43	2,745.93	144.49	20.004	
17,900.00	7,618.00	5,048.00	5,048.00	153.43	87.19	-25.40	-8,182.62	4,392.45	2,868.42	2,722.46	145.96	19.652	
18,000.00	7,618.00	5,048.00	5,048.00	155.09	87.19	-25.40	-8,182.62	4,392.45	2,849.75	2,702.23	147.52	19.318	
18,100.00	7,618.00	5,048.00	5,048.00	156.75	87.19	-25.40	-8,182.62	4,392.45	2,834.49	2,685.32	149.17	19.001	
18,200.00	7,618.00	5,048.00	5,048.00	158.41	87.19	-25.40	-8,182.62	4,392.45	2,822.69	2,671.76	150.93	18.702	
18,300.00	7,618.00	5,048.00	5,048.00	160.07	87.19	-25.40	-8,182.62	4,392.45	2,814.40	2,661.60	152.80	18.419	
18,400.00	7,618.00	5,048.00	5,048.00	161.74	87.19	-25.40	-8,182.62	4,392.45	2,809.64	2,654.88	154.77	18.154	
18,483.73	7,618.00	5,048.00	5,048.00	163.14	87.19	-25.40	-8,182.62	4,392.45	2,808.39	2,651.90	156.49	17.946	CC
18,500.00	7,618.00	5,048.00	5,048.00	163.41	87.19	-25.40	-8,182.62	4,392.45	2,808.44	2,651.61	156.83	17.907	ES
18,600.00	7,618.00	5,048.00	5,048.00	165.08	87.19	-25.40	-8,182.62	4,392.45	2,810.80	2,651.81	158.99	17.679	
18,700.00	7,618.00	5,048.00	5,048.00	166.75	87.19	-25.40	-8,182.62	4,392.45	2,816.71	2,655.49	161.22	17.471	
18,711.30	7,618.00	5,048.00	5,048.00	166.94	87.19	-25.40	-8,182.62	4,392.45	2,817.60	2,656.12	161.48	17.449	SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	142.14	-4,069.26	3,163.71	5,154.43				
100.00	100.00	109.28	109.28	0.13	0.19	142.14	-4,069.23	3,163.39	5,154.23	5,153.90	0.33	N/A	
200.00	200.00	233.46	233.45	0.49	0.41	142.15	-4,069.10	3,162.24	5,153.58	5,152.68	0.90	5,702.336	
300.00	300.00	357.61	357.59	0.85	0.63	142.16	-4,068.88	3,160.27	5,152.47	5,150.99	1.48	3,480.259	
400.00	400.00	481.73	481.68	1.21	0.85	142.19	-4,068.56	3,157.46	5,150.88	5,148.82	2.06	2,503.964	
500.00	500.00	605.81	605.70	1.57	1.07	142.22	-4,068.16	3,153.84	5,148.83	5,146.20	2.63	1,955.041	
600.00	600.00	661.15	661.04	1.93	1.37	142.22	-4,067.90	3,152.85	5,147.19	5,143.90	3.30	1,562.119	
700.00	700.00	732.00	731.88	2.29	1.62	142.22	-4,067.32	3,152.51	5,146.20	5,142.30	3.90	1,320.055	
800.00	800.00	791.46	791.33	2.64	1.82	142.21	-4,066.53	3,153.28	5,145.86	5,141.40	4.46	1,154.602	
813.14	813.14	801.27	801.14	2.69	1.85	142.21	-4,066.37	3,153.48	5,145.85	5,141.32	4.54	1,134.232	
900.00	900.00	869.42	869.24	3.00	2.08	142.18	-4,064.99	3,155.48	5,146.02	5,140.94	5.08	1,013.260	
1,000.00	999.98	1,062.19	1,061.60	3.36	2.75	84.90	-4,056.80	3,164.65	5,145.53	5,139.42	6.11	842.681	
1,100.00	1,099.84	1,132.79	1,131.96	3.71	3.00	84.91	-4,052.58	3,168.63	5,143.84	5,137.12	6.71	766.220	
1,200.00	1,199.45	1,193.50	1,192.42	4.07	3.22	84.93	-4,048.97	3,172.78	5,142.58	5,135.29	7.29	705.173	
1,300.00	1,298.70	1,357.48	1,355.31	4.44	3.84	84.98	-4,036.65	3,187.02	5,140.98	5,132.71	8.28	621.154	
1,400.00	1,397.47	1,480.89	1,477.29	4.82	4.33	85.05	-4,023.64	3,200.50	5,137.98	5,128.84	9.14	561.858	
1,500.00	1,495.62	1,551.00	1,546.30	5.22	4.62	85.12	-4,015.30	3,209.56	5,134.83	5,124.99	9.84	521.977	
1,600.00	1,593.06	1,594.38	1,588.92	5.65	4.80	85.20	-4,010.10	3,215.76	5,132.17	5,121.72	10.45	491.156	
1,700.00	1,689.64	1,639.00	1,632.67	6.11	4.99	85.26	-4,004.90	3,222.79	5,130.34	5,119.24	11.10	462.297	
1,800.00	1,785.27	1,800.00	1,770.88	6.61	5.72	85.43	-3,987.17	3,247.16	5,128.52	5,116.20	12.32	416.335	
1,900.00	1,879.82	1,900.00	2,061.86	7.15	6.19	85.92	-3,944.34	3,292.49	5,123.29	5,109.98	13.32	384.743	
2,000.00	1,973.17	2,132.87	2,115.65	7.73	7.25	86.16	-3,936.48	3,299.32	5,116.81	5,101.84	14.97	341.794	
2,100.00	2,065.21	2,177.70	2,159.73	8.37	7.46	86.38	-3,930.69	3,305.07	5,111.32	5,095.50	15.81	323.229	
2,200.00	2,155.84	2,233.15	2,214.28	9.07	7.71	86.63	-3,923.96	3,312.41	5,106.57	5,089.81	16.76	304.715	
2,300.00	2,244.94	2,304.67	2,284.62	9.82	8.03	86.94	-3,915.59	3,322.28	5,102.42	5,084.59	17.84	286.043	
2,400.00	2,332.39	2,382.17	2,360.76	10.64	8.39	87.29	-3,906.47	3,333.49	5,098.61	5,079.60	19.01	268.204	
2,500.00	2,418.11	2,462.34	2,439.53	11.53	8.76	87.67	-3,897.30	3,345.19	5,095.15	5,074.89	20.26	251.474	
2,558.91	2,467.74	2,511.94	2,488.30	12.08	8.98	87.92	-3,891.75	3,352.38	5,093.25	5,072.21	21.04	242.083	
2,600.00	2,502.13	2,590.63	2,565.56	12.47	9.35	88.26	-3,882.45	3,364.01	5,091.84	5,070.04	21.80	233.592	
2,700.00	2,585.83	2,656.80	2,630.42	13.45	9.66	88.53	-3,874.17	3,374.21	5,088.41	5,065.32	23.09	220.377	
2,800.00	2,669.53	2,755.99	2,727.54	14.44	10.14	88.94	-3,861.85	3,390.11	5,085.65	5,061.09	24.56	207.067	
2,900.00	2,753.22	2,833.61	2,803.57	15.46	10.50	89.27	-3,852.17	3,402.39	5,083.00	5,057.06	25.94	195.938	
3,000.00	2,836.92	2,912.05	2,880.66	16.48	10.87	89.60	-3,843.38	3,413.93	5,081.01	5,053.68	27.33	185.893	
3,100.00	2,920.62	3,011.20	2,978.11	17.52	11.33	90.03	-3,832.33	3,428.54	5,079.38	5,050.55	28.83	176.189	
3,200.00	3,004.32	3,148.93	3,113.20	18.56	11.98	90.62	-3,815.49	3,449.37	5,077.32	5,046.80	30.52	166.356	
3,300.00	3,088.01	3,210.00	3,173.13	19.61	12.27	90.88	-3,808.10	3,458.48	5,075.60	5,043.74	31.86	159.305	
3,400.00	3,171.71	3,255.31	3,217.61	20.67	12.49	91.07	-3,802.93	3,465.41	5,074.89	5,041.76	33.13	153.177	
3,412.44	3,182.13	3,260.93	3,223.13	20.80	12.51	91.09	-3,802.31	3,466.30	5,074.88	5,041.59	33.29	152.448	
3,500.00	3,255.41	3,297.00	3,258.51	21.73	12.68	91.25	-3,798.40	3,472.12	5,075.32	5,040.93	34.38	147.603	
3,600.00	3,339.10	3,343.86	3,304.46	22.80	12.91	91.44	-3,793.67	3,479.95	5,076.91	5,041.24	35.67	142.348	
3,700.00	3,422.80	3,385.00	3,344.82	23.87	13.10	91.62	-3,789.88	3,487.00	5,079.68	5,042.76	36.92	137.597	
3,800.00	3,506.50	3,448.61	3,407.23	24.94	13.40	91.89	-3,784.52	3,498.04	5,083.45	5,045.17	38.28	132.805	
3,900.00	3,590.20	3,823.94	3,776.57	26.02	15.12	93.54	-3,748.96	3,553.85	5,086.36	5,045.27	41.09	123.799	
3,961.97	3,642.06	3,857.02	3,809.20	26.69	15.27	93.69	-3,745.30	3,557.81	5,086.17	5,044.27	41.90	121.396	
4,000.00	3,673.89	3,878.11	3,830.02	27.10	15.36	93.79	-3,743.04	3,560.33	5,086.24	5,043.84	42.40	119.964	
4,100.00	3,757.59	3,951.46	3,902.45	28.18	15.69	94.13	-3,735.55	3,569.15	5,087.03	5,043.23	43.79	116.160	
4,200.00	3,841.29	4,047.89	3,997.61	29.26	16.12	94.57	-3,725.51	3,581.10	5,088.16	5,042.88	45.29	112.348	
4,300.00	3,924.99	4,109.36	4,058.22	30.35	16.39	94.84	-3,718.99	3,589.01	5,089.73	5,043.10	46.63	109.142	
4,400.00	4,008.68	4,170.00	4,117.94	31.44	16.67	95.11	-3,712.96	3,597.61	5,092.53	5,044.55	47.98	106.147	
4,500.00	4,092.38	4,270.79	4,216.90	32.52	17.14	95.54	-3,702.28	3,613.42	5,095.87	5,046.35	49.52	102.911	
4,600.00	4,176.08	4,333.20	4,278.27	33.62	17.44	95.81	-3,695.83	3,622.77	5,099.39	5,048.52	50.87	100.242	
4,700.00	4,259.77	4,396.17	4,340.42	34.71	17.72	96.10	-3,690.24	3,631.19	5,103.75	5,051.54	52.21	97.757	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,800.00	4,343.47	4,468.02	4,411.53	35.80	18.02	96.44	-3,684.74	3,639.83	5,108.90	5,055.33	53.57	95.371	
4,900.00	4,427.17	4,567.50	4,510.43	36.89	18.41	96.94	-3,678.70	3,648.77	5,114.54	5,059.53	55.02	92.966	
5,000.00	4,510.87	4,670.07	4,612.69	37.99	18.79	97.49	-3,673.58	3,654.66	5,120.23	5,063.80	56.44	90.727	
5,100.00	4,594.56	4,764.52	4,707.00	39.08	19.11	98.02	-3,669.71	3,657.88	5,126.27	5,068.47	57.80	88.693	
5,200.00	4,678.26	4,836.00	4,778.44	40.18	19.34	98.44	-3,667.36	3,659.02	5,132.81	5,073.75	59.06	86.910	
5,300.00	4,761.96	4,918.45	4,860.87	41.28	19.59	98.93	-3,665.65	3,658.64	5,140.13	5,079.80	60.33	85.199	
5,400.00	4,845.66	5,035.35	4,977.71	42.37	19.91	99.66	-3,663.90	3,655.45	5,147.76	5,086.08	61.68	83.465	
5,500.00	4,929.35	5,124.75	5,067.03	43.47	20.16	100.22	-3,662.48	3,652.12	5,155.58	5,092.65	62.93	81.925	
5,600.00	5,013.05	5,224.10	5,166.28	44.57	20.43	100.85	-3,660.89	3,647.91	5,163.86	5,099.65	64.20	80.428	
5,700.00	5,096.75	5,324.21	5,266.28	45.67	20.71	101.48	-3,659.03	3,643.33	5,172.46	5,106.99	65.47	79.002	
5,800.00	5,180.45	5,360.56	5,302.59	46.77	20.82	101.71	-3,658.46	3,641.95	5,182.00	5,115.43	66.57	77.846	
5,900.00	5,264.14	5,407.62	5,349.62	47.87	20.95	102.00	-3,657.86	3,640.50	5,192.68	5,125.00	67.68	76.726	
6,000.00	5,347.84	5,480.00	5,421.99	48.97	21.16	102.44	-3,657.29	3,639.16	5,204.62	5,135.76	68.86	75.586	
6,100.00	5,431.54	5,516.22	5,458.21	50.07	21.26	102.65	-3,657.13	3,638.76	5,217.43	5,147.51	69.92	74.622	
6,200.00	5,515.23	5,592.02	5,534.00	51.17	21.49	103.11	-3,656.84	3,638.00	5,231.07	5,159.97	71.10	73.575	
6,300.00	5,598.93	5,669.45	5,611.43	52.27	21.72	103.57	-3,656.64	3,637.32	5,245.38	5,173.10	72.28	72.574	
6,400.00	5,682.63	5,754.58	5,696.55	53.38	21.97	104.08	-3,656.46	3,636.50	5,260.26	5,186.78	73.47	71.594	
6,500.00	5,766.33	5,840.53	5,782.50	54.48	22.23	104.59	-3,656.29	3,635.52	5,275.64	5,200.97	74.66	70.658	
6,600.00	5,850.02	5,933.40	5,875.36	55.58	22.50	105.14	-3,656.04	3,634.25	5,291.46	5,215.58	75.87	69.742	
6,700.00	5,933.72	6,026.07	5,968.02	56.68	22.78	105.68	-3,655.68	3,632.74	5,307.66	5,230.59	77.07	68.869	
6,800.00	6,017.42	6,118.00	6,059.92	57.79	23.06	106.23	-3,655.22	3,631.01	5,324.25	5,245.99	78.26	68.035	
6,900.00	6,101.12	6,205.07	6,146.97	58.89	23.32	106.74	-3,654.71	3,629.15	5,341.25	5,261.83	79.42	67.253	
7,000.00	6,184.81	6,283.00	6,224.88	59.99	23.55	107.20	-3,654.30	3,627.38	5,358.81	5,278.26	80.54	66.535	
7,100.00	6,268.51	6,362.53	6,304.39	61.10	23.79	107.67	-3,653.97	3,625.50	5,376.97	5,295.31	81.66	65.846	
7,200.00	6,352.21	6,458.09	6,399.93	62.20	24.08	108.22	-3,653.45	3,623.35	5,395.57	5,312.74	82.83	65.140	
7,300.00	6,435.90	6,554.17	6,495.99	63.31	24.38	108.78	-3,652.64	3,621.48	5,414.49	5,330.49	83.99	64.463	
7,400.00	6,519.60	6,632.64	6,574.44	64.41	24.63	109.22	-3,651.90	3,620.21	5,433.88	5,348.78	85.10	63.856	
7,500.00	6,603.30	6,715.29	6,657.08	65.51	24.89	109.69	-3,651.07	3,619.13	5,453.77	5,367.57	86.20	63.267	
7,600.00	6,687.00	6,796.70	6,738.48	66.62	25.15	110.14	-3,650.20	3,618.52	5,474.17	5,386.86	87.31	62.700	
7,700.00	6,770.69	6,879.03	6,820.81	67.72	25.42	110.59	-3,649.26	3,618.48	5,495.05	5,406.65	88.41	62.156	
7,800.00	6,854.39	6,952.19	6,893.96	68.83	25.66	110.99	-3,648.46	3,618.71	5,516.49	5,427.02	89.47	61.658	
7,900.00	6,938.09	7,025.53	6,967.30	69.93	25.90	111.38	-3,647.80	3,619.00	5,538.54	5,448.02	90.52	61.184	
7,933.18	6,965.86	7,049.86	6,991.63	70.30	25.98	111.51	-3,647.61	3,619.11	5,545.99	5,455.12	90.87	61.032	
7,950.00	6,980.00	7,062.45	7,004.22	70.49	26.02	109.31	-3,647.51	3,619.16	5,549.55	5,458.50	91.05	60.953	
8,000.00	7,022.68	7,100.47	7,042.23	71.01	26.14	102.03	-3,647.26	3,619.33	5,557.39	5,465.81	91.57	60.689	
8,050.00	7,066.06	7,139.07	7,080.84	71.51	26.27	93.82	-3,647.03	3,619.50	5,561.06	5,468.97	92.10	60.384	
8,100.00	7,109.82	7,177.97	7,119.74	71.97	26.40	85.01	-3,646.84	3,619.66	5,560.56	5,467.95	92.61	60.044	
8,150.00	7,153.63	7,216.90	7,158.66	72.38	26.52	76.09	-3,646.68	3,619.82	5,555.86	5,462.75	93.11	59.672	
8,200.00	7,197.14	7,271.67	7,213.44	72.74	26.70	67.64	-3,646.45	3,619.98	5,546.95	5,453.30	93.65	59.231	
8,250.00	7,240.04	7,330.30	7,272.06	73.05	26.89	59.97	-3,646.07	3,619.98	5,533.79	5,439.60	94.18	58.755	
8,300.00	7,281.99	7,387.30	7,329.06	73.31	27.08	53.25	-3,645.55	3,619.79	5,516.46	5,421.77	94.68	58.261	
8,350.00	7,322.67	7,444.85	7,386.61	73.52	27.27	47.52	-3,644.89	3,619.40	5,495.08	5,399.93	95.16	57.746	
8,400.00	7,361.77	7,500.53	7,442.27	73.68	27.45	42.68	-3,644.09	3,618.82	5,469.82	5,374.23	95.60	57.217	
8,450.00	7,399.01	7,553.02	7,494.75	73.78	27.62	38.61	-3,643.19	3,618.07	5,440.87	5,344.87	95.99	56.679	
8,500.00	7,434.08	7,601.93	7,543.65	73.85	27.78	35.16	-3,642.23	3,617.21	5,408.44	5,312.09	96.35	56.134	
8,550.00	7,466.74	7,607.52	7,549.24	73.87	27.80	31.93	-3,642.19	3,617.22	5,372.99	5,276.48	96.51	55.671	
8,600.00	7,496.72	7,626.37	7,568.08	73.85	27.86	29.14	-3,641.89	3,617.02	5,334.69	5,237.99	96.70	55.165	
8,650.00	7,523.80	7,643.47	7,585.18	73.79	27.92	26.54	-3,641.65	3,616.89	5,293.83	5,196.96	96.86	54.653	
8,700.00	7,547.77	7,658.66	7,600.37	73.70	27.97	23.97	-3,641.46	3,616.82	5,250.69	5,153.70	96.99	54.136	
8,750.00	7,568.45	7,671.81	7,613.52	73.58	28.01	21.19	-3,641.31	3,616.78	5,205.58	5,108.49	97.09	53.616	
8,800.00	7,585.69	7,682.78	7,624.49	73.43	28.05	17.74	-3,641.19	3,616.78	5,158.81	5,061.65	97.16	53.095	
8,850.00	7,599.35	7,691.47	7,633.18	73.26	28.07	12.62	-3,641.11	3,616.79	5,110.73	5,013.52	97.21	52.575	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,609.33	7,697.78	7,639.48	73.07	28.09	2.81	-3,641.05	3,616.80	5,061.69	4,964.46	97.23	52.059	
8,950.00	7,615.55	7,701.62	7,643.33	72.87	28.11	-24.16	-3,641.02	3,616.82	5,012.05	4,914.82	97.23	51.548	
9,000.00	7,617.97	7,702.96	7,644.67	72.65	28.11	-88.32	-3,641.01	3,616.82	4,962.19	4,864.98	97.21	51.046	
9,006.60	7,618.00	7,702.95	7,644.65	72.62	28.11	-95.34	-3,641.01	3,616.82	4,955.61	4,858.40	97.21	50.981	
9,100.00	7,618.00	7,702.44	7,644.15	72.22	28.11	-95.27	-3,641.01	3,616.82	4,862.54	4,765.40	97.14	50.055	
9,200.00	7,618.00	7,701.89	7,643.60	71.80	28.11	-95.20	-3,641.02	3,616.82	4,762.92	4,665.84	97.08	49.064	
9,300.00	7,618.00	7,701.33	7,643.04	71.41	28.11	-95.12	-3,641.02	3,616.81	4,663.31	4,566.30	97.00	48.073	
9,400.00	7,618.00	7,700.77	7,642.47	71.04	28.10	-95.04	-3,641.03	3,616.81	4,563.71	4,466.78	96.93	47.082	
9,500.00	7,618.00	7,700.20	7,641.90	70.68	28.10	-94.96	-3,641.03	3,616.81	4,464.13	4,367.28	96.86	46.090	
9,600.00	7,618.00	7,699.62	7,641.33	70.35	28.10	-94.88	-3,641.04	3,616.81	4,364.58	4,267.80	96.78	45.099	
9,700.00	7,618.00	7,699.03	7,640.74	70.04	28.10	-94.80	-3,641.04	3,616.81	4,265.04	4,168.34	96.70	44.108	
9,800.00	7,618.00	7,698.44	7,640.15	69.75	28.10	-94.72	-3,641.05	3,616.81	4,165.53	4,068.92	96.61	43.117	
9,900.00	7,618.00	7,697.84	7,639.55	69.47	28.09	-94.64	-3,641.05	3,616.80	4,066.04	3,969.51	96.52	42.125	
10,000.00	7,618.00	7,697.24	7,638.94	69.22	28.09	-94.56	-3,641.06	3,616.80	3,966.57	3,870.14	96.43	41.134	
10,100.00	7,618.00	7,696.62	7,638.33	68.99	28.09	-94.47	-3,641.06	3,616.80	3,867.13	3,770.80	96.33	40.143	
10,200.00	7,618.00	7,696.00	7,637.71	68.78	28.09	-94.39	-3,641.07	3,616.80	3,767.72	3,671.49	96.23	39.152	
10,300.00	7,618.00	7,695.37	7,637.08	68.59	28.09	-94.30	-3,641.07	3,616.80	3,668.35	3,572.22	96.13	38.162	
10,400.00	7,618.00	7,694.73	7,636.44	68.42	28.08	-94.21	-3,641.08	3,616.80	3,569.01	3,472.99	96.02	37.171	
10,500.00	7,618.00	7,694.09	7,635.80	68.28	28.08	-94.12	-3,641.09	3,616.79	3,469.70	3,373.80	95.90	36.181	
10,600.00	7,618.00	7,693.43	7,635.14	68.16	28.08	-94.03	-3,641.09	3,616.79	3,370.44	3,274.66	95.78	35.191	
10,700.00	7,618.00	7,692.77	7,634.48	68.06	28.08	-93.94	-3,641.10	3,616.79	3,271.22	3,175.58	95.65	34.202	
10,800.00	7,618.00	7,692.10	7,633.81	67.99	28.08	-93.85	-3,641.10	3,616.79	3,172.05	3,076.54	95.51	33.213	
10,900.00	7,618.00	7,691.42	7,633.13	67.95	28.07	-93.75	-3,641.11	3,616.79	3,072.94	2,977.57	95.36	32.224	
11,000.00	7,618.00	7,690.73	7,632.44	67.95	28.07	-93.66	-3,641.12	3,616.79	2,973.88	2,878.67	95.21	31.236	
11,100.00	7,618.00	7,690.03	7,631.74	67.97	28.07	-93.56	-3,641.12	3,616.79	2,874.89	2,779.85	95.04	30.248	
11,200.00	7,618.00	7,689.32	7,631.03	68.04	28.07	-93.47	-3,641.13	3,616.78	2,775.97	2,681.10	94.87	29.262	
11,300.00	7,618.00	7,688.61	7,630.31	68.15	28.06	-93.37	-3,641.14	3,616.78	2,677.13	2,582.45	94.68	28.275	
11,400.00	7,618.00	7,687.88	7,629.59	68.30	28.06	-93.27	-3,641.14	3,616.78	2,578.38	2,483.90	94.48	27.290	
11,500.00	7,618.00	7,687.14	7,628.85	68.50	28.06	-93.16	-3,641.15	3,616.78	2,479.73	2,385.46	94.26	26.306	
11,600.00	7,618.00	7,686.39	7,628.10	68.75	28.06	-93.06	-3,641.16	3,616.78	2,381.19	2,287.16	94.03	25.323	
11,700.00	7,618.00	7,685.64	7,627.35	69.06	28.05	-92.96	-3,641.16	3,616.78	2,282.78	2,189.00	93.78	24.341	
11,800.00	7,618.00	7,684.87	7,626.58	69.44	28.05	-92.85	-3,641.17	3,616.78	2,184.51	2,091.00	93.51	23.360	
11,900.00	7,618.00	7,684.09	7,625.80	69.88	28.05	-92.74	-3,641.18	3,616.78	2,086.41	1,993.19	93.22	22.381	
12,000.00	7,618.00	7,683.30	7,625.01	70.39	28.05	-92.63	-3,641.19	3,616.78	1,988.50	1,895.59	92.90	21.404	
12,100.00	7,618.00	7,682.50	7,624.21	70.97	28.04	-92.52	-3,641.19	3,616.78	1,890.80	1,798.24	92.56	20.429	
12,200.00	7,618.00	7,681.69	7,623.39	71.63	28.04	-92.41	-3,641.20	3,616.78	1,793.36	1,701.18	92.18	19.456	
12,300.00	7,618.00	7,680.86	7,622.57	72.35	28.04	-92.30	-3,641.21	3,616.78	1,696.21	1,604.45	91.76	18.485	
12,400.00	7,618.00	7,680.02	7,621.73	73.15	28.04	-92.18	-3,641.22	3,616.78	1,599.42	1,508.11	91.30	17.518	
12,500.00	7,618.00	7,679.17	7,620.88	74.01	28.03	-92.06	-3,641.23	3,616.78	1,503.04	1,412.24	90.80	16.553	
12,600.00	7,618.00	7,678.31	7,620.02	74.93	28.03	-91.94	-3,641.24	3,616.78	1,407.17	1,316.92	90.25	15.592	
12,700.00	7,618.00	7,677.44	7,619.15	75.91	28.03	-91.82	-3,641.25	3,616.78	1,311.92	1,222.28	89.64	14.635	
12,800.00	7,618.00	7,676.55	7,618.26	76.95	28.02	-91.70	-3,641.26	3,616.78	1,217.43	1,128.45	88.97	13.683	
12,900.00	7,618.00	7,675.65	7,617.36	78.04	28.02	-91.57	-3,641.26	3,616.78	1,123.89	1,035.64	88.25	12.736	
13,000.00	7,618.00	7,674.73	7,616.44	79.16	28.02	-91.45	-3,641.27	3,616.78	1,031.56	944.08	87.47	11.793	
13,100.00	7,618.00	7,673.81	7,615.51	80.33	28.02	-91.32	-3,641.28	3,616.78	940.80	854.12	86.68	10.854	
13,200.00	7,618.00	7,672.86	7,614.57	81.54	28.01	-91.19	-3,641.29	3,616.78	852.11	766.20	85.91	9.918	
13,300.00	7,618.00	7,671.90	7,613.61	82.78	28.01	-91.06	-3,641.31	3,616.78	766.21	680.91	85.30	8.983	
13,400.00	7,618.00	7,670.93	7,612.64	84.05	28.01	-90.92	-3,641.32	3,616.79	684.15	599.08	85.07	8.042	
13,500.00	7,618.00	7,669.94	7,611.65	85.35	28.00	-90.78	-3,641.33	3,616.79	607.49	521.85	85.64	7.093	
13,600.00	7,618.00	7,668.94	7,610.65	86.67	28.00	-90.64	-3,641.34	3,616.79	538.54	450.86	87.67	6.142	
13,700.00	7,618.00	7,667.92	7,609.63	88.02	28.00	-90.50	-3,641.35	3,616.79	480.62	388.71	91.92	5.229	
13,800.00	7,618.00	7,666.88	7,608.59	89.38	27.99	-90.36	-3,641.36	3,616.79	438.15	339.49	98.65	4.441	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,900.00	7,618.00	7,665.83	7,607.53	90.77	27.99	-90.21	-3,641.37	3,616.80	415.87	309.01	106.86	3.892	
13,945.15	7,618.00	7,665.34	7,607.05	91.40	27.99	-90.15	-3,641.38	3,616.80	413.41	302.95	110.45	3.743	CC
14,000.00	7,618.00	7,664.75	7,606.46	92.17	27.99	-90.06	-3,641.39	3,616.80	417.03	302.74	114.29	3.649	ES, SF
14,100.00	7,618.00	7,663.66	7,605.37	93.59	27.98	-89.91	-3,641.40	3,616.80	441.45	322.33	119.12	3.706	
14,200.00	7,618.00	7,662.56	7,604.27	95.02	27.98	-89.76	-3,641.41	3,616.80	485.64	364.49	121.15	4.009	
14,300.00	7,618.00	7,661.43	7,603.14	96.47	27.98	-89.60	-3,641.42	3,616.81	544.80	423.56	121.24	4.494	
14,400.00	7,618.00	7,660.28	7,601.99	97.93	27.97	-89.44	-3,641.44	3,616.81	614.63	494.30	120.33	5.108	
14,500.00	7,618.00	7,659.12	7,600.83	99.41	27.97	-89.28	-3,641.45	3,616.82	691.90	572.87	119.03	5.813	
14,600.00	7,618.00	7,657.93	7,599.64	100.89	27.96	-89.12	-3,641.47	3,616.82	774.39	656.75	117.64	6.583	
14,700.00	7,618.00	7,656.72	7,598.43	102.38	27.96	-88.95	-3,641.48	3,616.83	860.60	744.28	116.32	7.399	
14,800.00	7,618.00	7,655.50	7,597.21	103.89	27.96	-88.78	-3,641.50	3,616.83	949.51	834.40	115.11	8.249	
14,900.00	7,618.00	7,654.25	7,595.96	105.40	27.95	-88.61	-3,641.51	3,616.84	1,040.44	926.41	114.03	9.124	
15,000.00	7,618.00	7,652.97	7,594.68	106.92	27.95	-88.43	-3,641.53	3,616.84	1,132.90	1,019.83	113.07	10.019	
15,100.00	7,618.00	7,651.68	7,593.39	108.45	27.94	-88.25	-3,641.54	3,616.85	1,226.54	1,114.32	112.22	10.929	
15,200.00	7,618.00	7,650.36	7,592.07	109.99	27.94	-88.07	-3,641.56	3,616.85	1,321.11	1,209.64	111.47	11.851	
15,300.00	7,618.00	7,649.01	7,590.72	111.54	27.93	-87.88	-3,641.58	3,616.86	1,416.43	1,305.62	110.81	12.783	
15,400.00	7,618.00	7,647.64	7,589.36	113.09	27.93	-87.69	-3,641.59	3,616.87	1,512.35	1,402.13	110.22	13.722	
15,500.00	7,618.00	7,646.25	7,587.96	114.65	27.93	-87.50	-3,641.61	3,616.88	1,608.76	1,499.08	109.69	14.667	
15,600.00	7,618.00	7,644.83	7,586.54	116.21	27.92	-87.31	-3,641.63	3,616.88	1,705.59	1,596.38	109.22	15.617	
15,700.00	7,618.00	7,643.38	7,585.09	117.78	27.92	-87.11	-3,641.65	3,616.89	1,802.77	1,693.97	108.79	16.571	
15,800.00	7,618.00	7,641.90	7,583.61	119.36	27.91	-86.90	-3,641.67	3,616.90	1,900.23	1,791.82	108.41	17.529	
15,900.00	7,618.00	7,640.39	7,582.11	120.94	27.91	-86.69	-3,641.69	3,616.91	1,997.95	1,889.89	108.06	18.489	
16,000.00	7,618.00	7,638.86	7,580.57	122.53	27.90	-86.48	-3,641.71	3,616.92	2,095.87	1,988.13	107.74	19.452	
16,100.00	7,618.00	7,637.29	7,579.00	124.12	27.90	-86.27	-3,641.73	3,616.93	2,193.99	2,086.53	107.46	20.417	
16,200.00	7,618.00	7,635.69	7,577.41	125.72	27.89	-86.04	-3,641.76	3,616.94	2,292.27	2,185.07	107.20	21.384	
16,300.00	7,618.00	7,634.06	7,575.78	127.32	27.89	-85.82	-3,641.78	3,616.96	2,390.69	2,283.73	106.96	22.352	
16,400.00	7,618.00	7,632.40	7,574.11	128.93	27.88	-85.59	-3,641.80	3,616.97	2,489.23	2,382.50	106.74	23.321	
16,500.00	7,618.00	7,630.70	7,572.41	130.54	27.87	-85.36	-3,641.83	3,616.98	2,587.89	2,481.35	106.53	24.292	
16,600.00	7,618.00	7,628.96	7,570.68	132.15	27.87	-85.12	-3,641.85	3,617.00	2,686.64	2,580.29	106.35	25.263	
16,700.00	7,618.00	7,627.19	7,568.90	133.77	27.86	-84.88	-3,641.88	3,617.01	2,785.48	2,679.31	106.18	26.235	
16,800.00	7,618.00	7,625.38	7,567.09	135.39	27.86	-84.63	-3,641.91	3,617.03	2,884.40	2,778.38	106.02	27.207	
16,900.00	7,618.00	7,623.53	7,565.25	137.01	27.85	-84.37	-3,641.93	3,617.05	2,983.39	2,877.52	105.87	28.180	
17,000.00	7,618.00	7,621.64	7,563.36	138.64	27.85	-84.11	-3,641.96	3,617.07	3,082.45	2,976.71	105.73	29.153	
17,100.00	7,618.00	7,619.71	7,561.42	140.27	27.84	-83.85	-3,641.99	3,617.08	3,181.56	3,075.95	105.61	30.126	
17,200.00	7,618.00	7,617.73	7,559.45	141.91	27.83	-83.58	-3,642.02	3,617.10	3,280.73	3,175.24	105.49	31.100	
17,300.00	7,618.00	7,615.71	7,557.43	143.55	27.83	-83.30	-3,642.06	3,617.13	3,379.94	3,274.56	105.38	32.073	
17,400.00	7,618.00	7,613.65	7,555.36	145.19	27.82	-83.02	-3,642.09	3,617.15	3,479.20	3,373.92	105.28	33.047	
17,500.00	7,618.00	7,611.53	7,553.25	146.83	27.81	-82.73	-3,642.12	3,617.17	3,578.50	3,473.32	105.19	34.021	
17,600.00	7,618.00	7,609.37	7,551.08	148.48	27.80	-82.44	-3,642.16	3,617.20	3,677.84	3,572.74	105.10	34.994	
17,700.00	7,618.00	7,607.15	7,548.87	150.13	27.80	-82.14	-3,642.19	3,617.22	3,777.21	3,672.19	105.02	35.967	
17,800.00	7,618.00	7,604.88	7,546.60	151.78	27.79	-81.83	-3,642.23	3,617.25	3,876.61	3,771.67	104.94	36.941	
17,900.00	7,618.00	7,602.55	7,544.27	153.43	27.78	-81.52	-3,642.27	3,617.28	3,976.04	3,871.17	104.87	37.913	
18,000.00	7,618.00	7,600.17	7,541.89	155.09	27.77	-81.20	-3,642.31	3,617.31	4,075.50	3,970.69	104.81	38.886	
18,100.00	7,618.00	7,597.73	7,539.45	156.75	27.77	-80.87	-3,642.36	3,617.35	4,174.98	4,070.24	104.74	39.859	
18,200.00	7,618.00	7,595.22	7,536.94	158.41	27.76	-80.53	-3,642.40	3,617.38	4,274.49	4,169.80	104.69	40.831	
18,300.00	7,618.00	7,592.66	7,534.38	160.07	27.75	-80.19	-3,642.44	3,617.42	4,374.01	4,269.38	104.64	41.802	
18,400.00	7,618.00	7,590.02	7,531.74	161.74	27.74	-79.83	-3,642.49	3,617.46	4,473.56	4,368.97	104.59	42.774	
18,500.00	7,618.00	7,587.32	7,529.04	163.41	27.73	-79.47	-3,642.54	3,617.50	4,573.13	4,468.59	104.54	43.745	
18,600.00	7,618.00	7,584.54	7,526.26	165.08	27.72	-79.10	-3,642.59	3,617.54	4,672.71	4,568.21	104.50	44.715	
18,700.00	7,618.00	7,581.69	7,523.41	166.75	27.71	-78.72	-3,642.65	3,617.59	4,772.31	4,667.85	104.46	45.685	
18,711.30	7,618.00	7,581.36	7,523.09	166.94	27.71	-78.68	-3,642.65	3,617.59	4,783.57	4,679.11	104.46	45.795	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	30.06	30.06	0.00	0.05	163.32	-7,122.07	2,134.31	7,435.00				
100.00	100.00	151.36	151.35	0.13	0.38	163.31	-7,121.50	2,135.03	7,434.71	7,434.20	0.51	N/A	
200.00	200.00	231.59	231.59	0.49	0.66	163.32	-7,121.44	2,134.40	7,434.42	7,433.27	1.15	6,448.812	
234.99	234.99	257.00	256.99	0.62	0.75	163.32	-7,121.50	2,134.12	7,434.40	7,433.03	1.37	5,438.074	
300.00	300.00	292.14	292.13	0.85	0.87	163.32	-7,121.71	2,133.66	7,434.52	7,432.80	1.72	4,311.270	
400.00	400.00	349.00	348.97	1.21	1.07	163.33	-7,122.44	2,132.67	7,435.24	7,432.96	2.28	3,255.556	
500.00	500.00	411.21	411.16	1.57	1.30	163.34	-7,123.70	2,131.26	7,436.51	7,433.65	2.86	2,596.408	
600.00	600.00	481.17	481.06	1.93	1.55	163.36	-7,125.61	2,129.05	7,438.21	7,434.74	3.47	2,140.905	
700.00	700.00	568.55	568.23	2.29	1.87	163.41	-7,128.95	2,124.15	7,440.27	7,436.11	4.15	1,791.779	
800.00	800.00	946.37	941.91	2.64	3.40	163.82	-7,142.66	2,072.73	7,438.29	7,432.25	6.04	1,231.466	
900.00	900.00	986.00	980.65	3.00	3.58	163.88	-7,144.53	2,064.63	7,437.10	7,430.52	6.58	1,130.450	
972.34	972.33	1,055.85	1,048.68	3.26	3.91	106.83	-7,148.28	2,049.22	7,436.67	7,429.50	7.17	1,036.971	
1,000.00	999.98	1,067.73	1,060.21	3.36	3.97	106.85	-7,149.00	2,046.44	7,436.74	7,429.41	7.33	1,014.758	
1,100.00	1,099.84	1,096.00	1,087.60	3.71	4.11	106.88	-7,150.85	2,039.69	7,438.17	7,430.35	7.82	950.848	
1,200.00	1,199.45	1,131.01	1,121.47	4.07	4.29	106.91	-7,153.48	2,031.24	7,441.54	7,433.18	8.36	889.865	
1,300.00	1,298.70	1,183.00	1,171.73	4.44	4.56	106.95	-7,158.18	2,018.83	7,447.13	7,438.13	9.00	827.557	
1,400.00	1,397.47	1,183.00	1,171.73	4.82	4.56	106.81	-7,158.18	2,018.83	7,454.42	7,445.04	9.38	794.855	
1,500.00	1,495.62	1,226.32	1,213.49	5.22	4.80	106.78	-7,162.69	2,008.21	7,463.79	7,453.78	10.01	745.525	
1,600.00	1,593.06	1,271.00	1,256.32	5.65	5.04	106.73	-7,167.81	1,996.57	7,474.96	7,464.29	10.67	700.268	
1,700.00	1,689.64	1,305.75	1,289.52	6.11	5.25	106.62	-7,172.07	1,987.25	7,488.00	7,476.68	11.32	661.522	
1,800.00	1,785.27	1,358.00	1,339.41	6.61	5.55	106.55	-7,178.90	1,973.28	7,502.98	7,490.88	12.10	620.206	
1,900.00	1,879.82	1,433.90	1,411.85	7.15	5.99	106.57	-7,188.99	1,953.01	7,519.61	7,506.55	13.06	575.917	
2,000.00	1,973.17	1,495.17	1,470.32	7.73	6.36	106.51	-7,197.04	1,936.56	7,537.55	7,523.57	13.98	539.352	
2,100.00	2,065.21	1,532.00	1,505.42	8.37	6.58	106.30	-7,202.01	1,926.58	7,557.21	7,542.42	14.79	510.916	
2,200.00	2,155.84	1,580.31	1,551.39	9.07	6.88	106.12	-7,208.77	1,913.32	7,578.66	7,562.93	15.73	481.774	
2,300.00	2,244.94	1,620.00	1,589.04	9.82	7.13	105.88	-7,214.59	1,902.23	7,601.99	7,585.33	16.67	456.158	
2,400.00	2,332.39	1,653.59	1,620.88	10.64	7.34	105.56	-7,219.67	1,892.80	7,627.15	7,609.54	17.62	432.978	
2,500.00	2,418.11	1,690.77	1,656.12	11.53	7.58	105.24	-7,225.41	1,882.42	7,654.11	7,635.47	18.64	410.630	
2,558.91	2,467.74	1,716.26	1,680.28	12.08	7.74	105.05	-7,229.42	1,875.35	7,670.82	7,651.53	19.29	397.670	
2,600.00	2,502.13	1,743.65	1,706.25	12.47	7.91	105.21	-7,233.72	1,867.81	7,682.74	7,662.93	19.81	387.819	
2,700.00	2,585.83	2,253.18	2,193.34	13.45	11.05	108.16	-7,297.26	1,732.88	7,709.70	7,685.89	23.80	323.913	
2,800.00	2,669.53	2,281.50	2,220.56	14.44	11.22	108.31	-7,300.03	1,725.61	7,736.27	7,711.42	24.85	311.372	
2,900.00	2,753.22	2,318.00	2,255.58	15.46	11.44	108.52	-7,303.84	1,716.05	7,763.81	7,737.87	25.94	299.245	
3,000.00	2,836.92	2,355.82	2,291.84	16.48	11.67	108.73	-7,307.94	1,706.10	7,792.23	7,765.18	27.06	287.987	
3,100.00	2,920.62	2,563.67	2,491.75	17.52	12.92	109.89	-7,328.42	1,653.07	7,820.75	7,791.57	29.18	268.023	
3,200.00	3,004.32	3,200.00	2,592.22	18.56	16.64	110.46	-7,337.23	1,627.15	7,848.95	7,815.21	33.74	232.607	
3,300.00	3,088.01	2,704.79	2,627.83	19.61	13.75	110.66	-7,340.35	1,617.62	7,877.81	7,846.03	31.78	247.892	
3,400.00	3,171.71	2,729.38	2,651.49	20.67	13.89	110.80	-7,342.59	1,611.33	7,907.66	7,874.85	32.81	241.032	
3,500.00	3,255.41	2,755.00	2,676.15	21.73	14.05	110.94	-7,345.06	1,604.82	7,938.45	7,904.61	33.84	234.605	
3,600.00	3,339.10	2,879.48	2,796.26	22.80	14.77	111.61	-7,356.77	1,574.31	7,969.72	7,934.29	35.43	224.930	
3,700.00	3,422.80	3,014.82	2,927.46	23.87	15.53	112.33	-7,368.38	1,543.22	8,001.12	7,964.06	37.06	215.897	
3,800.00	3,506.50	3,129.28	3,038.38	24.94	16.18	112.93	-7,377.15	1,516.32	8,032.28	7,993.71	38.57	208.254	
3,900.00	3,590.20	3,165.80	3,073.67	26.02	16.39	113.12	-7,380.00	1,507.38	8,064.16	8,024.52	39.64	203.440	
4,000.00	3,673.89	3,191.00	3,097.98	27.10	16.53	113.25	-7,382.05	1,501.07	8,096.85	8,056.22	40.64	199.252	
4,100.00	3,757.59	3,237.23	3,142.51	28.18	16.81	113.50	-7,386.01	1,489.32	8,130.33	8,088.57	41.75	194.720	
4,200.00	3,841.29	3,278.00	3,181.73	29.26	17.05	113.72	-7,389.69	1,478.81	8,164.62	8,121.79	42.83	190.623	
4,300.00	3,924.99	3,278.00	3,181.73	30.35	17.05	113.72	-7,389.69	1,478.81	8,199.80	8,156.14	43.66	187.817	
4,400.00	4,008.68	3,316.52	3,218.76	31.44	17.28	113.92	-7,393.44	1,468.88	8,235.76	8,191.06	44.71	184.222	
4,500.00	4,092.38	3,337.42	3,238.86	32.52	17.41	114.03	-7,395.64	1,463.56	8,272.67	8,227.03	45.64	181.263	
4,600.00	4,176.08	3,366.00	3,266.33	33.62	17.58	114.18	-7,398.82	1,456.36	8,310.46	8,263.86	46.61	178.301	
4,700.00	4,259.77	3,540.19	3,433.54	34.71	18.65	115.10	-7,417.19	1,411.15	8,348.41	8,299.96	48.45	172.299	
4,800.00	4,343.47	3,540.00	3,433.36	35.80	18.65	115.10	-7,417.17	1,411.20	8,386.74	8,337.51	49.24	170.340	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,427.17	3,578.02	3,469.74	36.89	18.89	115.30	-7,421.14	1,400.93	8,425.79	8,375.54	50.25	167.691	
5,000.00	4,510.87	4,849.22	4,722.23	37.99	23.96	120.61	-7,476.53	1,255.40	8,459.55	8,403.26	56.29	150.286	
5,100.00	4,594.56	4,996.46	4,869.41	39.08	24.31	121.10	-7,472.62	1,254.84	8,488.48	8,430.99	57.50	147.631	
5,200.00	4,678.26	5,124.31	4,997.20	40.18	24.62	121.53	-7,468.47	1,254.26	8,517.18	8,458.52	58.66	145.205	
5,300.00	4,761.96	5,182.38	5,055.24	41.28	24.76	121.72	-7,466.55	1,254.08	8,546.06	8,486.43	59.63	143.315	
5,400.00	4,845.66	5,246.64	5,119.46	42.37	24.91	121.93	-7,464.59	1,254.00	8,575.37	8,514.75	60.62	141.467	
5,500.00	4,929.35	5,286.00	5,158.81	43.47	25.00	122.06	-7,463.46	1,254.01	8,605.16	8,543.63	61.53	139.847	
5,600.00	5,013.05	5,286.00	5,158.81	44.57	25.00	122.06	-7,463.46	1,254.01	8,635.89	8,573.56	62.33	138.546	
5,700.00	5,096.75	5,356.56	5,229.35	45.67	25.19	122.29	-7,462.00	1,253.69	8,666.85	8,603.51	63.33	136.844	
5,800.00	5,180.45	5,385.64	5,258.43	46.77	25.27	122.38	-7,461.69	1,253.33	8,698.83	8,634.63	64.20	135.488	
5,900.00	5,264.14	5,461.00	5,333.77	47.87	25.48	122.64	-7,461.71	1,251.76	8,731.93	8,666.73	65.21	133.913	
6,000.00	5,347.84	5,461.00	5,333.77	48.97	25.48	122.64	-7,461.71	1,251.76	8,765.12	8,699.15	65.97	132.859	
6,100.00	5,431.54	5,483.08	5,355.84	50.07	25.54	122.71	-7,461.89	1,251.19	8,799.28	8,732.48	66.80	131.726	
6,200.00	5,515.23	5,543.78	5,416.52	51.17	25.71	122.91	-7,462.53	1,249.88	8,833.98	8,766.24	67.75	130.400	
6,300.00	5,598.93	5,604.76	5,477.49	52.27	25.89	123.11	-7,463.35	1,248.92	8,869.12	8,800.43	68.69	129.123	
6,400.00	5,682.63	6,400.00	5,621.92	53.38	28.10	123.57	-7,464.83	1,247.93	8,904.02	8,832.29	71.72	124.142	
6,500.00	5,766.33	5,969.82	5,842.53	54.48	26.91	124.26	-7,464.85	1,246.49	8,938.27	8,866.93	71.34	125.289	
6,600.00	5,850.02	6,192.95	6,065.62	55.58	27.51	124.95	-7,461.70	1,245.61	8,971.68	8,898.90	72.78	123.275	
6,700.00	5,933.72	6,243.59	6,116.26	56.68	27.65	125.11	-7,460.80	1,245.44	9,004.87	8,931.19	73.68	122.222	
6,800.00	6,017.42	6,317.00	6,189.65	57.79	27.85	125.33	-7,459.47	1,244.96	9,038.35	8,963.71	74.64	121.093	
6,900.00	6,101.12	6,408.34	6,280.98	58.89	28.10	125.61	-7,457.81	1,244.04	9,072.06	8,996.40	75.66	119.906	
7,000.00	6,184.81	6,505.52	6,378.14	59.99	28.37	125.91	-7,455.93	1,243.27	9,105.86	9,029.16	76.70	118.726	
7,100.00	6,268.51	6,568.19	6,440.80	61.10	28.54	126.10	-7,454.77	1,242.97	9,139.89	9,062.27	77.61	117.760	
7,200.00	6,352.21	6,629.72	6,502.31	62.20	28.71	126.28	-7,453.82	1,242.93	9,174.32	9,095.79	78.52	116.834	
7,300.00	6,435.90	6,695.54	6,568.13	63.31	28.89	126.47	-7,453.01	1,243.14	9,209.14	9,129.69	79.44	115.920	
7,400.00	6,519.60	6,787.94	6,660.52	64.41	29.13	126.74	-7,451.92	1,243.60	9,244.17	9,163.73	80.44	114.918	
7,500.00	6,603.30	6,883.81	6,756.38	65.51	29.39	127.01	-7,450.70	1,244.10	9,279.31	9,197.86	81.45	113.930	
7,600.00	6,687.00	6,990.21	6,862.78	66.62	29.68	127.32	-7,449.11	1,244.51	9,314.46	9,231.97	82.49	112.921	
7,700.00	6,770.69	7,071.98	6,944.53	67.72	29.91	127.55	-7,447.74	1,244.70	9,349.65	9,266.21	83.44	112.046	
7,800.00	6,854.39	7,137.73	7,010.28	68.83	30.09	127.74	-7,446.74	1,244.82	9,385.16	9,300.82	84.35	111.268	
7,900.00	6,938.09	7,207.00	7,079.54	69.93	30.28	127.93	-7,445.83	1,244.91	9,421.01	9,335.76	85.26	110.500	
7,933.18	6,965.86	7,241.05	7,113.58	70.30	30.38	128.03	-7,445.40	1,244.98	9,432.96	9,347.37	85.60	110.204	
7,950.00	6,980.00	7,261.88	7,134.41	70.49	30.43	125.67	-7,445.13	1,245.05	9,438.79	9,353.01	85.78	110.036	
8,000.00	7,022.68	7,324.87	7,197.40	71.01	30.61	118.03	-7,444.22	1,245.38	9,453.34	9,367.00	86.34	109.494	
8,050.00	7,066.06	7,389.06	7,261.57	71.51	30.79	109.59	-7,443.19	1,245.92	9,463.68	9,376.77	86.91	108.893	
8,100.00	7,109.82	7,418.66	7,291.17	71.97	30.87	100.58	-7,442.72	1,246.18	9,469.82	9,382.45	87.37	108.388	
8,150.00	7,153.63	7,451.66	7,324.16	72.38	30.96	91.58	-7,442.22	1,246.44	9,471.79	9,383.94	87.84	107.829	
8,200.00	7,197.14	7,484.37	7,356.87	72.74	31.05	83.08	-7,441.76	1,246.67	9,469.56	9,381.25	88.30	107.237	
8,250.00	7,240.04	7,516.54	7,389.04	73.05	31.14	75.47	-7,441.34	1,246.86	9,463.16	9,374.41	88.76	106.620	
8,300.00	7,281.99	7,556.00	7,428.49	73.31	31.25	68.96	-7,440.86	1,247.06	9,452.65	9,363.43	89.22	105.950	
8,350.00	7,322.67	7,585.92	7,458.41	73.52	31.34	63.53	-7,440.52	1,247.18	9,438.07	9,348.44	89.63	105.297	
8,400.00	7,361.77	7,624.97	7,497.46	73.68	31.45	59.19	-7,440.07	1,247.35	9,419.52	9,329.46	90.06	104.591	
8,450.00	7,399.01	7,662.09	7,534.57	73.78	31.55	55.79	-7,439.65	1,247.50	9,397.13	9,306.67	90.46	103.879	
8,500.00	7,434.08	7,696.99	7,569.48	73.85	31.65	53.24	-7,439.25	1,247.65	9,371.07	9,280.23	90.84	103.164	
8,550.00	7,466.74	7,729.42	7,601.90	73.87	31.74	51.46	-7,438.87	1,247.78	9,341.54	9,250.36	91.18	102.449	
8,600.00	7,496.72	7,756.68	7,629.16	73.85	31.82	50.39	-7,438.56	1,247.91	9,308.75	9,217.26	91.49	101.747	
8,650.00	7,523.80	7,781.18	7,653.66	73.79	31.89	50.04	-7,438.30	1,248.05	9,272.96	9,181.19	91.77	101.049	
8,700.00	7,547.77	7,802.87	7,675.35	73.70	31.95	50.45	-7,438.08	1,248.22	9,234.43	9,142.41	92.02	100.357	
8,750.00	7,568.45	7,821.57	7,694.04	73.58	32.00	51.74	-7,437.90	1,248.37	9,193.44	9,101.20	92.24	99.673	
8,800.00	7,585.69	7,837.12	7,709.59	73.43	32.04	54.16	-7,437.75	1,248.52	9,150.29	9,057.86	92.43	99.000	
8,850.00	7,599.35	7,849.37	7,721.84	73.26	32.08	58.14	-7,437.64	1,248.65	9,105.30	9,012.70	92.59	98.338	
8,900.00	7,609.33	7,858.23	7,730.70	73.07	32.10	64.46	-7,437.56	1,248.74	9,058.80	8,966.07	92.73	97.690	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,950.00	7,615.55	7,863.62	7,736.08	72.87	32.12	74.49	-7,437.51	1,248.80	9,011.14	8,918.30	92.84	97.058	
9,000.00	7,617.97	7,865.46	7,737.93	72.65	32.12	90.28	-7,437.50	1,248.82	8,962.67	8,869.74	92.93	96.443	
9,006.60	7,618.00	7,865.44	7,737.91	72.62	32.12	92.89	-7,437.50	1,248.82	8,956.23	8,863.29	92.94	96.363	
9,100.00	7,618.00	7,864.69	7,737.16	72.22	32.12	92.86	-7,437.51	1,248.81	8,865.09	8,772.00	93.08	95.238	
9,200.00	7,618.00	7,863.89	7,736.35	71.80	32.12	92.84	-7,437.51	1,248.81	8,767.55	8,674.31	93.24	94.033	
9,300.00	7,618.00	7,863.08	7,735.55	71.41	32.12	92.82	-7,437.52	1,248.80	8,670.06	8,576.66	93.40	92.827	
9,400.00	7,618.00	7,862.26	7,734.73	71.04	32.11	92.79	-7,437.53	1,248.79	8,572.64	8,479.07	93.57	91.621	
9,500.00	7,618.00	7,861.45	7,733.92	70.68	32.11	92.77	-7,437.53	1,248.78	8,475.28	8,381.54	93.74	90.415	
9,600.00	7,618.00	7,860.63	7,733.10	70.35	32.11	92.75	-7,437.54	1,248.77	8,377.97	8,284.06	93.92	89.208	
9,700.00	7,618.00	7,859.81	7,732.28	70.04	32.11	92.72	-7,437.55	1,248.76	8,280.74	8,186.64	94.10	88.000	
9,800.00	7,618.00	7,858.98	7,731.45	69.75	32.11	92.70	-7,437.55	1,248.75	8,183.56	8,089.27	94.29	86.793	
9,900.00	7,618.00	7,858.15	7,730.62	69.47	32.10	92.67	-7,437.56	1,248.74	8,086.46	7,991.98	94.48	85.585	
10,000.00	7,618.00	7,857.32	7,729.79	69.22	32.10	92.65	-7,437.57	1,248.73	7,989.43	7,894.74	94.69	84.377	
10,100.00	7,618.00	7,856.48	7,728.95	68.99	32.10	92.62	-7,437.58	1,248.72	7,892.47	7,797.57	94.90	83.168	
10,200.00	7,618.00	7,855.64	7,728.11	68.78	32.10	92.60	-7,437.58	1,248.71	7,795.59	7,700.48	95.11	81.960	
10,300.00	7,618.00	7,854.80	7,727.27	68.59	32.09	92.57	-7,437.59	1,248.70	7,698.79	7,603.45	95.34	80.752	
10,400.00	7,618.00	7,853.96	7,726.43	68.42	32.09	92.55	-7,437.60	1,248.70	7,602.07	7,506.50	95.57	79.543	
10,500.00	7,618.00	7,853.11	7,725.58	68.28	32.09	92.52	-7,437.61	1,248.69	7,505.44	7,409.63	95.81	78.335	
10,600.00	7,618.00	7,852.25	7,724.72	68.16	32.09	92.50	-7,437.61	1,248.68	7,408.89	7,312.83	96.06	77.127	
10,700.00	7,618.00	7,851.40	7,723.87	68.06	32.08	92.47	-7,437.62	1,248.67	7,312.44	7,216.13	96.32	75.919	
10,800.00	7,618.00	7,850.54	7,723.01	67.99	32.08	92.45	-7,437.63	1,248.66	7,216.09	7,119.50	96.59	74.712	
10,900.00	7,618.00	7,849.67	7,722.14	67.95	32.08	92.42	-7,437.64	1,248.65	7,119.84	7,022.98	96.86	73.505	
11,000.00	7,618.00	7,848.81	7,721.28	67.95	32.08	92.40	-7,437.65	1,248.64	7,023.69	6,926.54	97.15	72.299	
11,100.00	7,618.00	7,847.93	7,720.41	67.97	32.07	92.37	-7,437.65	1,248.63	6,927.65	6,830.20	97.44	71.093	
11,200.00	7,618.00	7,847.06	7,719.53	68.04	32.07	92.35	-7,437.66	1,248.62	6,831.72	6,733.97	97.75	69.888	
11,300.00	7,618.00	7,846.18	7,718.65	68.15	32.07	92.32	-7,437.67	1,248.61	6,735.91	6,637.84	98.07	68.684	
11,400.00	7,618.00	7,845.30	7,717.77	68.30	32.07	92.29	-7,437.68	1,248.60	6,640.23	6,541.83	98.40	67.481	
11,500.00	7,618.00	7,844.41	7,716.89	68.50	32.06	92.27	-7,437.68	1,248.59	6,544.67	6,445.93	98.74	66.279	
11,600.00	7,618.00	7,843.52	7,716.00	68.75	32.06	92.24	-7,437.69	1,248.59	6,449.25	6,350.15	99.10	65.079	
11,700.00	7,618.00	7,842.63	7,715.10	69.06	32.06	92.21	-7,437.70	1,248.58	6,353.97	6,254.50	99.47	63.880	
11,800.00	7,618.00	7,841.73	7,714.21	69.44	32.06	92.19	-7,437.71	1,248.57	6,258.84	6,158.99	99.85	62.682	
11,900.00	7,618.00	7,840.83	7,713.31	69.88	32.05	92.16	-7,437.72	1,248.56	6,163.86	6,063.61	100.25	61.486	
12,000.00	7,618.00	7,839.93	7,712.40	70.39	32.05	92.14	-7,437.73	1,248.55	6,069.04	5,968.38	100.66	60.292	
12,100.00	7,618.00	7,839.02	7,711.49	70.97	32.05	92.11	-7,437.73	1,248.54	5,974.39	5,873.30	101.09	59.100	
12,200.00	7,618.00	7,838.11	7,710.58	71.63	32.05	92.08	-7,437.74	1,248.53	5,879.92	5,778.38	101.54	57.910	
12,300.00	7,618.00	7,837.19	7,709.66	72.35	32.04	92.05	-7,437.75	1,248.52	5,785.63	5,683.63	102.00	56.723	
12,400.00	7,618.00	7,836.27	7,708.74	73.15	32.04	92.03	-7,437.76	1,248.51	5,691.54	5,589.06	102.48	55.538	
12,500.00	7,618.00	7,835.35	7,707.82	74.01	32.04	92.00	-7,437.77	1,248.50	5,597.65	5,494.67	102.98	54.356	
12,600.00	7,618.00	7,834.42	7,706.89	74.93	32.04	91.97	-7,437.78	1,248.49	5,503.98	5,400.48	103.50	53.177	
12,700.00	7,618.00	7,833.49	7,705.96	75.91	32.03	91.95	-7,437.79	1,248.49	5,410.54	5,306.49	104.04	52.002	
12,800.00	7,618.00	7,832.55	7,705.02	76.95	32.03	91.92	-7,437.79	1,248.48	5,317.33	5,212.72	104.61	50.830	
12,900.00	7,618.00	7,831.61	7,704.09	78.04	32.03	91.89	-7,437.80	1,248.47	5,224.37	5,119.18	105.20	49.663	
13,000.00	7,618.00	7,830.67	7,703.14	79.16	32.03	91.86	-7,437.81	1,248.46	5,131.68	5,025.87	105.81	48.499	
13,100.00	7,618.00	7,829.72	7,702.19	80.33	32.02	91.83	-7,437.82	1,248.45	5,039.27	4,932.82	106.45	47.340	
13,200.00	7,618.00	7,828.77	7,701.24	81.54	32.02	91.81	-7,437.83	1,248.44	4,947.15	4,840.04	107.11	46.186	
13,300.00	7,618.00	7,827.81	7,700.28	82.78	32.02	91.78	-7,437.84	1,248.43	4,855.35	4,747.54	107.81	45.037	
13,400.00	7,618.00	7,826.85	7,699.32	84.05	32.02	91.75	-7,437.85	1,248.42	4,763.87	4,655.34	108.53	43.894	
13,500.00	7,618.00	7,825.89	7,698.36	85.35	32.01	91.72	-7,437.86	1,248.41	4,672.74	4,563.46	109.29	42.756	
13,600.00	7,618.00	7,824.92	7,697.39	86.67	32.01	91.69	-7,437.87	1,248.40	4,581.99	4,471.91	110.08	41.626	
13,700.00	7,618.00	7,823.94	7,696.42	88.02	32.01	91.66	-7,437.88	1,248.40	4,491.62	4,380.72	110.90	40.502	
13,800.00	7,618.00	7,822.97	7,695.44	89.38	32.00	91.64	-7,437.88	1,248.39	4,401.68	4,289.92	111.76	39.386	
13,900.00	7,618.00	7,821.98	7,694.46	90.77	32.00	91.61	-7,437.89	1,248.38	4,312.17	4,199.51	112.66	38.277	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,618.00	7,821.00	7,693.47	92.17	32.00	91.58	-7,437.90	1,248.37	4,223.14	4,109.54	113.59	37.177	
14,100.00	7,618.00	7,820.01	7,692.48	93.59	32.00	91.55	-7,437.91	1,248.36	4,134.60	4,020.03	114.57	36.087	
14,200.00	7,618.00	7,819.01	7,691.48	95.02	31.99	91.52	-7,437.92	1,248.35	4,046.60	3,931.00	115.60	35.005	
14,300.00	7,618.00	7,818.01	7,690.49	96.47	31.99	91.49	-7,437.93	1,248.34	3,959.17	3,842.50	116.67	33.935	
14,400.00	7,618.00	7,817.01	7,689.48	97.93	31.99	91.46	-7,437.94	1,248.33	3,872.35	3,754.56	117.79	32.875	
14,500.00	7,618.00	7,816.00	7,688.47	99.41	31.99	91.43	-7,437.95	1,248.32	3,786.18	3,667.22	118.96	31.827	
14,600.00	7,618.00	7,814.99	7,687.46	100.89	31.98	91.40	-7,437.96	1,248.32	3,700.71	3,580.52	120.18	30.792	
14,700.00	7,618.00	7,813.97	7,686.44	102.38	31.98	91.37	-7,437.97	1,248.31	3,615.97	3,494.51	121.46	29.770	
14,800.00	7,618.00	7,812.95	7,685.42	103.89	31.98	91.34	-7,437.98	1,248.30	3,532.04	3,409.24	122.80	28.763	
14,900.00	7,618.00	7,811.92	7,684.39	105.40	31.97	91.31	-7,437.99	1,248.29	3,448.97	3,324.77	124.20	27.770	
15,000.00	7,618.00	7,810.89	7,683.36	106.92	31.97	91.28	-7,438.00	1,248.28	3,366.81	3,241.16	125.65	26.794	
15,100.00	7,618.00	7,809.85	7,682.33	108.45	31.97	91.25	-7,438.01	1,248.27	3,285.64	3,158.47	127.18	25.835	
15,200.00	7,618.00	7,808.81	7,681.28	109.99	31.96	91.22	-7,438.02	1,248.26	3,205.54	3,076.78	128.77	24.894	
15,300.00	7,618.00	7,807.76	7,680.24	111.54	31.96	91.19	-7,438.03	1,248.25	3,126.58	2,996.16	130.42	23.973	
15,400.00	7,618.00	7,806.71	7,679.19	113.09	31.96	91.16	-7,438.04	1,248.25	3,048.86	2,916.72	132.15	23.072	
15,500.00	7,618.00	7,805.66	7,678.13	114.65	31.96	91.12	-7,438.05	1,248.24	2,972.47	2,838.53	133.94	22.193	
15,600.00	7,618.00	7,804.60	7,677.07	116.21	31.95	91.09	-7,438.06	1,248.23	2,897.52	2,761.72	135.80	21.336	
15,700.00	7,618.00	7,803.53	7,676.01	117.78	31.95	91.06	-7,438.07	1,248.22	2,824.12	2,686.39	137.73	20.504	
15,800.00	7,618.00	7,802.46	7,674.94	119.36	31.95	91.03	-7,438.08	1,248.21	2,752.40	2,612.66	139.73	19.698	
15,900.00	7,618.00	7,801.39	7,673.86	120.94	31.94	91.00	-7,438.10	1,248.20	2,682.48	2,540.69	141.79	18.918	
16,000.00	7,618.00	7,800.31	7,672.78	122.53	31.94	90.97	-7,438.11	1,248.19	2,614.52	2,470.61	143.92	18.167	
16,100.00	7,618.00	7,799.22	7,671.70	124.12	31.94	90.93	-7,438.12	1,248.19	2,548.68	2,402.59	146.09	17.446	
16,200.00	7,618.00	7,798.13	7,670.61	125.72	31.93	90.90	-7,438.13	1,248.18	2,485.11	2,336.80	148.31	16.756	
16,300.00	7,618.00	7,797.04	7,669.51	127.32	31.93	90.87	-7,438.14	1,248.17	2,424.00	2,273.44	150.57	16.099	
16,400.00	7,618.00	7,795.94	7,668.41	128.93	31.93	90.84	-7,438.15	1,248.16	2,365.55	2,212.70	152.85	15.477	
16,500.00	7,618.00	7,794.83	7,667.31	130.54	31.93	90.81	-7,438.16	1,248.15	2,309.94	2,154.81	155.13	14.890	
16,600.00	7,618.00	7,793.72	7,666.20	132.15	31.92	90.77	-7,438.17	1,248.14	2,257.39	2,099.99	157.41	14.341	
16,700.00	7,618.00	7,792.61	7,665.08	133.77	31.92	90.74	-7,438.18	1,248.14	2,208.13	2,048.48	159.65	13.831	
16,800.00	7,618.00	7,791.49	7,663.96	135.39	31.92	90.71	-7,438.20	1,248.13	2,162.37	2,000.54	161.83	13.362	
16,900.00	7,618.00	7,790.36	7,662.84	137.01	31.91	90.67	-7,438.21	1,248.12	2,120.34	1,956.41	163.94	12.934	
17,000.00	7,618.00	7,789.23	7,661.70	138.64	31.91	90.64	-7,438.22	1,248.11	2,082.27	1,916.35	165.92	12.549	
17,100.00	7,618.00	7,788.09	7,660.57	140.27	31.91	90.61	-7,438.23	1,248.10	2,048.38	1,880.61	167.77	12.210	
17,200.00	7,618.00	7,786.95	7,659.42	141.91	31.90	90.57	-7,438.24	1,248.09	2,018.87	1,849.44	169.44	11.915	
17,300.00	7,618.00	7,785.80	7,658.28	143.55	31.90	90.54	-7,438.25	1,248.09	1,993.95	1,823.06	170.89	11.668	
17,400.00	7,618.00	7,784.65	7,657.12	145.19	31.90	90.51	-7,438.27	1,248.08	1,973.79	1,801.67	172.12	11.468	
17,500.00	7,618.00	7,783.49	7,655.96	146.83	31.89	90.47	-7,438.28	1,248.07	1,958.52	1,785.45	173.07	11.316	
17,600.00	7,618.00	7,782.32	7,654.80	148.48	31.89	90.44	-7,438.29	1,248.06	1,948.28	1,774.54	173.74	11.214	
17,700.00	7,618.00	7,781.15	7,653.63	150.13	31.89	90.40	-7,438.30	1,248.05	1,943.14	1,769.03	174.10	11.161	
17,750.09	7,618.00	7,780.56	7,653.04	150.96	31.89	90.38	-7,438.31	1,248.05	1,942.49	1,768.32	174.17	11.153	CC, ES, SF
17,800.00	7,618.00	7,779.98	7,652.45	151.78	31.88	90.37	-7,438.31	1,248.05	1,943.13	1,768.98	174.16	11.157	
17,900.00	7,618.00	7,778.79	7,651.27	153.43	31.88	90.33	-7,438.33	1,248.04	1,948.27	1,774.37	173.89	11.204	
18,000.00	7,618.00	7,777.61	7,650.08	155.09	31.88	90.30	-7,438.34	1,248.03	1,958.50	1,785.18	173.32	11.300	
18,100.00	7,618.00	7,776.41	7,648.89	156.75	31.87	90.26	-7,438.35	1,248.02	1,973.75	1,801.30	172.46	11.445	
18,200.00	7,618.00	7,775.22	7,647.69	158.41	31.87	90.23	-7,438.36	1,248.02	1,993.91	1,822.60	171.31	11.639	
18,300.00	7,618.00	7,774.01	7,646.49	160.07	31.87	90.19	-7,438.38	1,248.01	2,018.82	1,848.90	169.92	11.881	
18,400.00	7,618.00	7,772.80	7,645.28	161.74	31.86	90.16	-7,438.39	1,248.00	2,048.32	1,880.01	168.31	12.170	
18,500.00	7,618.00	7,771.58	7,644.06	163.41	31.86	90.12	-7,438.40	1,247.99	2,082.20	1,915.70	166.50	12.506	
18,600.00	7,618.00	7,770.36	7,642.84	165.08	31.86	90.08	-7,438.42	1,247.98	2,120.27	1,955.73	164.54	12.886	
18,700.00	7,618.00	7,769.13	7,641.61	166.75	31.85	90.05	-7,438.43	1,247.98	2,162.29	1,999.84	162.45	13.311	
18,711.30	7,618.00	7,768.99	7,641.47	166.94	31.85	90.04	-7,438.43	1,247.98	2,167.28	2,005.07	162.21	13.361	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	67.39	67.39	0.00	0.10	163.35	-7,136.62	2,133.70	7,448.90				
100.00	100.00	124.56	124.55	0.13	0.29	163.36	-7,136.67	2,132.75	7,448.54	7,448.11	0.43	N/A	
105.27	105.27	127.28	127.27	0.15	0.30	163.36	-7,136.69	2,132.71	7,448.54	7,448.08	0.45	N/A	
200.00	200.00	186.91	186.88	0.49	0.52	163.37	-7,137.17	2,131.75	7,448.82	7,447.81	1.01	7,385.926	
300.00	300.00	293.41	293.31	0.85	0.90	163.40	-7,138.75	2,128.07	7,449.25	7,447.49	1.75	4,246.295	
400.00	400.00	372.94	372.66	1.21	1.20	163.44	-7,140.56	2,123.12	7,449.67	7,447.26	2.41	3,092.918	
500.00	500.00	440.00	439.46	1.57	1.45	163.49	-7,142.94	2,117.73	7,450.72	7,447.70	3.02	2,465.765	
600.00	600.00	440.00	439.46	1.93	1.45	163.49	-7,142.94	2,117.73	7,452.50	7,449.12	3.38	2,204.574	
700.00	700.00	483.08	482.30	2.29	1.62	163.52	-7,145.19	2,113.78	7,455.15	7,451.24	3.91	1,907.535	
800.00	800.00	533.00	531.84	2.64	1.82	163.56	-7,148.81	2,108.78	7,459.00	7,454.54	4.46	1,671.449	
900.00	900.00	533.00	531.84	3.00	1.82	163.56	-7,148.81	2,108.78	7,463.56	7,458.74	4.82	1,548.537	
1,000.00	999.98	576.92	575.33	3.36	2.01	106.31	-7,152.72	2,104.05	7,469.63	7,464.27	5.35	1,395.422	
1,100.00	1,099.84	625.00	622.85	3.71	2.21	106.23	-7,157.54	2,098.57	7,477.49	7,471.59	5.90	1,266.918	
1,200.00	1,199.45	654.20	651.65	4.07	2.33	106.09	-7,160.76	2,095.04	7,487.13	7,480.74	6.38	1,172.931	
1,300.00	1,298.70	690.92	687.80	4.44	2.50	105.95	-7,165.16	2,090.31	7,498.58	7,491.67	6.90	1,085.985	
1,400.00	1,397.47	717.00	713.42	4.82	2.61	105.75	-7,168.51	2,086.75	7,511.85	7,504.46	7.39	1,016.158	
1,500.00	1,495.62	751.94	747.64	5.22	2.78	105.55	-7,173.39	2,081.68	7,526.98	7,519.03	7.94	947.432	
1,600.00	1,593.06	778.47	773.54	5.65	2.91	105.30	-7,177.43	2,077.59	7,544.00	7,535.52	8.48	889.695	
1,700.00	1,689.64	809.00	803.25	6.11	3.05	105.03	-7,182.43	2,072.62	7,562.91	7,553.85	9.06	834.863	
1,800.00	1,785.27	809.00	803.25	6.61	3.05	104.62	-7,182.43	2,072.62	7,583.77	7,574.24	9.53	796.073	
1,900.00	1,879.82	844.95	838.09	7.15	3.24	104.31	-7,188.83	2,066.55	7,606.38	7,596.17	10.21	745.231	
2,000.00	1,973.17	863.94	856.45	7.73	3.34	103.90	-7,192.44	2,063.32	7,630.93	7,620.09	10.84	703.823	
2,100.00	2,065.21	898.00	889.29	8.37	3.51	103.52	-7,199.34	2,057.46	7,657.40	7,645.80	11.60	660.388	
2,200.00	2,155.84	898.00	889.29	9.07	3.51	102.95	-7,199.34	2,057.46	7,685.53	7,673.30	12.22	628.764	
2,300.00	2,244.94	898.00	889.29	9.82	3.51	102.33	-7,199.34	2,057.46	7,715.60	7,702.70	12.90	598.189	
2,400.00	2,332.39	947.25	936.61	10.64	3.79	101.93	-7,210.02	2,048.92	7,747.06	7,733.18	13.88	558.073	
2,500.00	2,418.11	969.07	957.52	11.53	3.91	101.36	-7,214.97	2,045.13	7,780.30	7,765.52	14.77	526.724	
2,558.91	2,467.74	1,011.00	997.61	12.08	4.14	101.17	-7,224.84	2,037.84	7,800.80	7,785.33	15.47	504.277	
2,600.00	2,502.13	1,011.00	997.61	12.47	4.14	101.17	-7,224.84	2,037.84	7,815.17	7,799.36	15.81	494.290	
2,700.00	2,585.83	1,011.00	997.61	13.45	4.14	101.17	-7,224.84	2,037.84	7,850.92	7,834.27	16.65	471.464	
2,800.00	2,669.53	1,011.00	997.61	14.44	4.14	101.17	-7,224.84	2,037.84	7,887.78	7,870.28	17.50	450.687	
2,900.00	2,753.22	1,049.35	1,034.18	15.46	4.37	101.39	-7,234.30	2,031.23	7,925.42	7,906.86	18.56	426.968	
3,000.00	2,836.92	1,068.59	1,052.50	16.48	4.48	101.50	-7,239.19	2,027.96	7,964.06	7,944.54	19.52	407.970	
3,100.00	2,920.62	1,100.00	1,082.35	17.52	4.67	101.67	-7,247.41	2,022.68	8,003.64	7,983.09	20.55	389.453	
3,200.00	3,004.32	1,100.00	1,082.35	18.56	4.67	101.67	-7,247.41	2,022.68	8,044.06	8,022.65	21.40	375.812	
3,300.00	3,088.01	1,129.37	1,110.22	19.61	4.84	101.83	-7,255.32	2,017.84	8,085.36	8,062.94	22.41	360.714	
3,400.00	3,171.71	1,151.00	1,130.72	20.67	4.97	101.95	-7,261.26	2,014.36	8,127.52	8,104.14	23.38	347.637	
3,500.00	3,255.41	1,187.00	1,164.81	21.73	5.19	102.15	-7,271.38	2,008.72	8,170.55	8,146.13	24.42	334.591	
3,600.00	3,339.10	1,187.00	1,164.81	22.80	5.19	102.15	-7,271.38	2,008.72	8,214.35	8,189.10	25.25	325.288	
3,700.00	3,422.80	1,187.00	1,164.81	23.87	5.19	102.15	-7,271.38	2,008.72	8,259.12	8,233.04	26.08	316.710	
3,800.00	3,506.50	1,233.67	1,208.85	24.94	5.49	102.41	-7,284.97	2,001.37	8,304.44	8,277.28	27.16	305.751	
3,900.00	3,590.20	1,275.00	1,247.66	26.02	5.75	102.64	-7,297.47	1,994.61	8,350.79	8,322.58	28.21	296.050	
4,000.00	3,673.89	1,275.00	1,247.66	27.10	5.75	102.64	-7,297.47	1,994.61	8,397.75	8,368.74	29.01	289.487	
4,100.00	3,757.59	1,301.66	1,272.62	28.18	5.92	102.79	-7,305.73	1,990.18	8,445.55	8,415.59	29.96	281.914	
4,200.00	3,841.29	1,332.23	1,301.20	29.26	6.12	102.95	-7,315.29	1,985.10	8,494.04	8,463.12	30.92	274.694	
4,300.00	3,924.99	1,362.00	1,329.01	30.35	6.32	103.12	-7,324.70	1,980.17	8,543.21	8,511.33	31.87	268.037	
4,400.00	4,008.68	1,407.24	1,371.22	31.44	6.63	103.37	-7,339.13	1,972.57	8,592.99	8,560.08	32.91	261.098	
4,500.00	4,092.38	1,449.00	1,410.10	32.52	6.91	103.60	-7,352.53	1,965.34	8,643.33	8,609.41	33.92	254.816	
4,600.00	4,176.08	1,449.00	1,410.10	33.62	6.91	103.60	-7,352.53	1,965.34	8,694.39	8,659.72	34.67	250.791	
4,700.00	4,259.77	1,487.79	1,446.12	34.71	7.18	103.81	-7,365.19	1,958.49	8,746.03	8,710.38	35.65	245.361	
4,800.00	4,343.47	1,506.43	1,463.37	35.80	7.31	103.91	-7,371.40	1,955.16	8,798.44	8,761.95	36.49	241.121	
4,900.00	4,427.17	1,537.00	1,491.60	36.89	7.53	104.08	-7,381.76	1,949.65	8,851.57	8,814.18	37.40	236.679	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,510.87	1,537.00	1,491.60	37.99	7.53	104.08	-7,381.76	1,949.65	8,905.35	8,867.24	38.11	233.683	
5,100.00	4,594.56	1,537.00	1,491.60	39.08	7.53	104.08	-7,381.76	1,949.65	8,959.91	8,921.11	38.81	230.879	
5,200.00	4,678.26	1,570.17	1,522.11	40.18	7.77	104.26	-7,393.30	1,943.60	9,015.01	8,975.30	39.71	227.025	
5,300.00	4,761.96	1,584.11	1,534.89	41.28	7.87	104.34	-7,398.25	1,941.04	9,070.86	9,030.38	40.48	224.090	
5,400.00	4,845.66	1,624.00	1,571.29	42.37	8.17	104.56	-7,412.78	1,933.66	9,127.54	9,086.13	41.41	220.441	
5,500.00	4,929.35	1,624.00	1,571.29	43.47	8.17	104.56	-7,412.78	1,933.66	9,184.59	9,142.53	42.07	218.333	
5,600.00	5,013.05	1,624.00	1,571.29	44.57	8.17	104.56	-7,412.78	1,933.66	9,242.38	9,199.66	42.72	216.359	
5,700.00	5,096.75	1,624.00	1,571.29	45.67	8.17	104.56	-7,412.78	1,933.66	9,300.88	9,257.52	43.36	214.509	
5,800.00	5,180.45	1,663.62	1,607.29	46.77	8.47	104.77	-7,427.61	1,926.30	9,359.84	9,315.59	44.25	211.510	
5,900.00	5,264.14	1,682.51	1,624.40	47.87	8.62	104.88	-7,434.79	1,922.80	9,419.44	9,374.44	45.00	209.318	
6,000.00	5,347.84	1,711.00	1,650.17	48.97	8.84	105.03	-7,445.75	1,917.55	9,479.63	9,433.82	45.80	206.959	
6,100.00	5,431.54	1,730.70	1,667.97	50.07	8.99	105.14	-7,453.39	1,913.90	9,540.33	9,493.78	46.54	204.981	
6,200.00	5,515.23	1,771.58	1,704.83	51.17	9.31	105.36	-7,469.27	1,906.19	9,601.48	9,554.07	47.42	202.497	
6,300.00	5,598.93	2,197.17	2,091.18	52.27	12.65	107.61	-7,627.78	1,824.37	9,662.59	9,611.72	50.88	189.923	
6,400.00	5,682.63	2,235.00	2,125.78	53.38	12.94	107.81	-7,641.17	1,816.96	9,722.35	9,670.63	51.72	187.974	
6,500.00	5,766.33	2,235.00	2,125.78	54.48	12.94	107.81	-7,641.17	1,816.96	9,782.66	9,730.35	52.31	187.029	
6,600.00	5,850.02	2,235.00	2,125.78	55.58	12.94	107.81	-7,641.17	1,816.96	9,843.61	9,790.73	52.88	186.149	
6,700.00	5,933.72	2,274.26	2,161.56	56.68	13.26	108.01	-7,655.32	1,809.17	9,904.86	9,851.14	53.72	184.396	
6,800.00	6,017.42	2,286.95	2,173.08	57.79	13.36	108.07	-7,660.00	1,806.60	9,966.81	9,912.45	54.36	183.347	
9,300.00	7,618.00	8,353.86	7,983.05	71.41	43.42	99.60	-8,720.00	1,158.64	9,946.96	9,851.90	95.05	104.644	
9,400.00	7,618.00	8,352.42	7,981.61	71.04	43.41	99.56	-8,720.05	1,158.63	9,849.14	9,753.93	95.21	103.448	
9,500.00	7,618.00	8,350.96	7,980.15	70.68	43.41	99.52	-8,720.10	1,158.61	9,751.36	9,656.00	95.37	102.250	
9,600.00	7,618.00	8,349.47	7,978.66	70.35	43.41	99.48	-8,720.15	1,158.59	9,653.63	9,558.10	95.53	101.052	
9,700.00	7,618.00	8,347.97	7,977.16	70.04	43.40	99.44	-8,720.20	1,158.58	9,555.95	9,460.25	95.70	99.853	
9,800.00	7,618.00	8,346.45	7,975.64	69.75	43.40	99.40	-8,720.25	1,158.56	9,458.32	9,362.44	95.87	98.654	
9,900.00	7,618.00	8,344.90	7,974.10	69.47	43.40	99.36	-8,720.30	1,158.54	9,360.73	9,264.68	96.05	97.454	
10,000.00	7,618.00	8,343.34	7,972.53	69.22	43.40	99.31	-8,720.36	1,158.52	9,263.19	9,166.96	96.24	96.253	
10,100.00	7,618.00	8,341.75	7,970.95	68.99	43.39	99.27	-8,720.41	1,158.51	9,165.71	9,069.28	96.43	95.052	
10,200.00	7,618.00	8,340.14	7,969.34	68.78	43.39	99.23	-8,720.47	1,158.49	9,068.28	8,971.66	96.62	93.851	
10,300.00	7,618.00	8,338.51	7,967.71	68.59	43.39	99.18	-8,720.52	1,158.47	8,970.91	8,874.08	96.83	92.649	
10,400.00	7,618.00	8,336.86	7,966.06	68.42	43.38	99.14	-8,720.58	1,158.45	8,873.60	8,776.56	97.04	91.446	
10,500.00	7,618.00	8,335.18	7,964.38	68.28	43.38	99.09	-8,720.64	1,158.44	8,776.34	8,679.09	97.25	90.244	
10,600.00	7,618.00	8,333.48	7,962.68	68.16	43.38	99.04	-8,720.70	1,158.42	8,679.15	8,581.68	97.47	89.041	
10,700.00	7,618.00	8,331.75	7,960.95	68.06	43.38	98.99	-8,720.77	1,158.40	8,582.02	8,484.32	97.70	87.838	
10,800.00	7,618.00	8,330.00	7,959.20	67.99	43.37	98.95	-8,720.83	1,158.38	8,484.96	8,387.02	97.94	86.635	
10,900.00	7,618.00	8,328.22	7,957.43	67.95	43.37	98.90	-8,720.89	1,158.37	8,387.96	8,289.78	98.18	85.431	
11,000.00	7,618.00	8,326.42	7,955.62	67.95	43.37	98.85	-8,720.96	1,158.35	8,291.04	8,192.60	98.44	84.228	
11,100.00	7,618.00	8,324.59	7,953.80	67.97	43.36	98.80	-8,721.03	1,158.33	8,194.19	8,095.49	98.70	83.025	
11,200.00	7,618.00	8,322.73	7,951.94	68.04	43.36	98.75	-8,721.10	1,158.32	8,097.41	7,998.45	98.96	81.822	
11,300.00	7,618.00	8,320.85	7,950.05	68.15	43.36	98.69	-8,721.17	1,158.30	8,000.71	7,901.47	99.24	80.619	
11,400.00	7,618.00	8,318.93	7,948.14	68.30	43.35	98.64	-8,721.24	1,158.28	7,904.10	7,804.57	99.53	79.416	
11,500.00	7,618.00	8,316.99	7,946.20	68.50	43.35	98.59	-8,721.31	1,158.26	7,807.57	7,707.74	99.82	78.214	
11,600.00	7,618.00	8,315.01	7,944.23	68.75	43.34	98.53	-8,721.39	1,158.25	7,711.12	7,610.99	100.13	77.012	
11,700.00	7,618.00	8,313.01	7,942.23	69.06	43.34	98.48	-8,721.47	1,158.23	7,614.77	7,514.33	100.44	75.811	
11,800.00	7,618.00	8,310.98	7,940.19	69.44	43.34	98.42	-8,721.55	1,158.21	7,518.51	7,417.74	100.77	74.610	
11,900.00	7,618.00	8,308.91	7,938.13	69.88	43.33	98.36	-8,721.63	1,158.20	7,422.35	7,321.24	101.11	73.410	
12,000.00	7,618.00	8,306.81	7,936.03	70.39	43.33	98.30	-8,721.71	1,158.18	7,326.29	7,224.83	101.46	72.211	
12,100.00	7,618.00	8,304.67	7,933.90	70.97	43.33	98.25	-8,721.80	1,158.16	7,230.34	7,128.52	101.82	71.013	
12,200.00	7,618.00	8,302.51	7,931.73	71.63	43.32	98.19	-8,721.88	1,158.15	7,134.49	7,032.30	102.19	69.816	
12,300.00	7,618.00	8,300.30	7,929.53	72.35	43.32	98.12	-8,721.97	1,158.13	7,038.76	6,936.19	102.58	68.620	
12,400.00	7,618.00	8,298.06	7,927.29	73.15	43.31	98.06	-8,722.06	1,158.11	6,943.15	6,840.18	102.98	67.426	
12,500.00	7,618.00	8,295.79	7,925.02	74.01	43.31	98.00	-8,722.16	1,158.10	6,847.66	6,744.28	103.39	66.232	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,600.00	7,618.00	8,293.47	7,922.70	74.93	43.31	97.94	-8,722.25	1,158.08	6,752.31	6,648.49	103.82	65.041	
12,700.00	7,618.00	8,291.12	7,920.35	75.91	43.30	97.87	-8,722.35	1,158.07	6,657.08	6,552.82	104.26	63.851	
12,800.00	7,618.00	8,288.72	7,917.96	76.95	43.30	97.80	-8,722.46	1,158.05	6,562.00	6,457.28	104.72	62.663	
12,900.00	7,618.00	8,286.29	7,915.53	78.04	43.29	97.74	-8,722.56	1,158.04	6,467.07	6,361.87	105.20	61.476	
13,000.00	7,618.00	13,000.00	7,889.02	79.16	52.02	97.00	-8,723.75	1,157.90	6,372.37	6,253.94	118.43	53.809	
13,100.00	7,618.00	13,100.00	7,885.03	80.33	52.21	96.89	-8,723.91	1,157.89	6,277.73	6,158.52	119.21	52.660	
13,200.00	7,618.00	13,200.00	7,881.04	81.54	52.40	96.78	-8,724.07	1,157.87	6,183.26	6,063.24	120.02	51.519	
13,300.00	7,618.00	13,300.00	7,877.04	82.78	52.59	96.67	-8,724.23	1,157.85	6,088.96	5,968.12	120.84	50.387	
13,400.00	7,618.00	13,400.00	7,873.05	84.05	52.78	96.55	-8,724.39	1,157.84	5,994.84	5,873.16	121.69	49.264	
13,500.00	7,618.00	8,293.92	7,923.15	85.35	43.31	97.95	-8,722.10	1,158.03	5,900.89	5,792.35	108.54	54.367	
13,600.00	7,618.00	8,285.13	7,914.36	86.67	43.29	97.70	-8,722.53	1,158.00	5,807.21	5,698.07	109.13	53.213	
13,700.00	7,618.00	8,276.58	7,905.82	88.02	43.27	97.47	-8,722.95	1,157.97	5,713.73	5,603.98	109.75	52.061	
13,800.00	7,618.00	8,268.26	7,897.52	89.38	43.26	97.24	-8,723.35	1,157.93	5,620.47	5,510.07	110.40	50.912	
13,900.00	7,618.00	8,260.17	7,889.44	90.77	43.25	97.01	-8,723.73	1,157.90	5,527.43	5,416.37	111.07	49.766	
14,000.00	7,618.00	8,252.30	7,881.58	92.17	43.23	96.79	-8,724.10	1,157.87	5,434.64	5,322.87	111.77	48.624	
14,100.00	7,618.00	8,244.64	7,873.92	93.59	43.22	96.58	-8,724.45	1,157.84	5,342.10	5,229.60	112.50	47.486	
14,200.00	7,618.00	8,237.18	7,866.47	95.02	43.20	96.37	-8,724.79	1,157.81	5,249.83	5,136.57	113.26	46.352	
14,300.00	7,618.00	8,229.91	7,859.21	96.47	43.19	96.17	-8,725.12	1,157.79	5,157.84	5,043.79	114.05	45.223	
14,400.00	7,618.00	8,222.83	7,852.13	97.93	43.18	95.97	-8,725.43	1,157.76	5,066.15	4,951.26	114.88	44.099	
14,500.00	7,618.00	8,215.92	7,845.23	99.41	43.17	95.78	-8,725.73	1,157.73	4,974.77	4,859.02	115.75	42.980	
14,600.00	7,618.00	8,209.18	7,838.50	100.89	43.15	95.59	-8,726.02	1,157.71	4,883.72	4,767.07	116.65	41.867	
14,700.00	7,618.00	8,202.61	7,831.94	102.38	43.14	95.41	-8,726.30	1,157.68	4,793.02	4,675.43	117.59	40.761	
14,800.00	7,618.00	8,196.20	7,825.53	103.89	43.13	95.23	-8,726.57	1,157.65	4,702.70	4,584.12	118.57	39.661	
14,900.00	7,618.00	8,189.95	7,819.28	105.40	43.12	95.05	-8,726.84	1,157.63	4,612.76	4,493.16	119.60	38.568	
15,000.00	7,618.00	8,183.84	7,813.18	106.92	43.11	94.88	-8,727.09	1,157.61	4,523.25	4,402.57	120.68	37.483	
15,100.00	7,618.00	8,177.87	7,807.22	108.45	43.10	94.71	-8,727.33	1,157.58	4,434.18	4,312.38	121.80	36.406	
15,200.00	7,618.00	8,172.04	7,801.39	109.99	43.09	94.55	-8,727.56	1,157.56	4,345.57	4,222.60	122.97	35.338	
15,300.00	7,618.00	8,166.35	7,795.70	111.54	43.08	94.39	-8,727.79	1,157.54	4,257.47	4,133.27	124.20	34.279	
15,400.00	7,618.00	8,160.78	7,790.14	113.09	43.07	94.23	-8,728.01	1,157.51	4,169.90	4,044.42	125.48	33.230	
15,500.00	7,618.00	8,155.34	7,784.70	114.65	43.06	94.08	-8,728.22	1,157.49	4,082.89	3,956.07	126.83	32.192	
15,600.00	7,618.00	8,150.02	7,779.39	116.21	43.05	93.93	-8,728.42	1,157.47	3,996.49	3,868.26	128.23	31.166	
15,700.00	7,618.00	8,144.81	7,774.18	117.78	43.04	93.78	-8,728.62	1,157.45	3,910.73	3,781.03	129.71	30.151	
15,800.00	7,618.00	8,139.72	7,769.09	119.36	43.03	93.64	-8,728.81	1,157.43	3,825.66	3,694.41	131.25	29.149	
15,900.00	7,618.00	8,134.74	7,764.11	120.94	43.02	93.50	-8,729.00	1,157.41	3,741.32	3,608.46	132.86	28.160	
16,000.00	7,618.00	8,129.86	7,759.24	122.53	43.01	93.36	-8,729.18	1,157.39	3,657.76	3,523.22	134.54	27.186	
16,100.00	7,618.00	8,125.08	7,754.47	124.12	43.00	93.23	-8,729.35	1,157.37	3,575.05	3,438.74	136.31	26.227	
16,200.00	7,618.00	8,120.40	7,749.79	125.72	43.00	93.10	-8,729.52	1,157.35	3,493.23	3,355.07	138.16	25.285	
16,300.00	7,618.00	8,115.82	7,745.21	127.32	42.99	92.97	-8,729.68	1,157.34	3,412.38	3,272.29	140.09	24.359	
16,400.00	7,618.00	8,117.80	7,747.18	128.93	42.99	93.02	-8,729.61	1,157.38	3,332.54	3,190.39	142.14	23.445	
16,500.00	7,618.00	8,112.26	7,741.65	130.54	42.98	92.87	-8,729.81	1,157.35	3,253.84	3,109.59	144.25	22.557	
16,600.00	7,618.00	8,106.88	7,736.27	132.15	42.97	92.72	-8,730.00	1,157.32	3,176.33	3,029.88	146.45	21.689	
16,700.00	7,618.00	8,101.63	7,731.03	133.77	42.96	92.57	-8,730.18	1,157.29	3,100.10	2,951.36	148.74	20.842	
16,800.00	7,618.00	8,096.52	7,725.92	135.39	42.95	92.42	-8,730.35	1,157.26	3,025.25	2,874.12	151.13	20.017	
16,900.00	7,618.00	8,091.54	7,720.94	137.01	42.94	92.28	-8,730.52	1,157.24	2,951.89	2,798.27	153.62	19.215	
17,000.00	7,618.00	8,086.68	7,716.09	138.64	42.94	92.15	-8,730.68	1,157.22	2,880.12	2,723.92	156.21	18.438	
17,100.00	7,618.00	8,081.94	7,711.35	140.27	42.93	92.01	-8,730.84	1,157.20	2,810.08	2,651.19	158.89	17.686	
17,200.00	7,618.00	8,077.32	7,706.74	141.91	42.92	91.88	-8,730.99	1,157.18	2,741.89	2,580.22	161.66	16.960	
17,300.00	7,618.00	8,072.81	7,702.23	143.55	42.91	91.76	-8,731.13	1,157.17	2,675.69	2,511.16	164.53	16.263	
17,400.00	7,618.00	8,068.41	7,697.83	145.19	42.90	91.63	-8,731.27	1,157.15	2,611.64	2,444.17	167.47	15.595	
17,500.00	7,618.00	8,064.12	7,693.54	146.83	42.89	91.51	-8,731.41	1,157.14	2,549.90	2,379.41	170.48	14.957	
17,600.00	7,618.00	8,059.92	7,689.34	148.48	42.88	91.39	-8,731.54	1,157.13	2,490.63	2,317.08	173.56	14.351	
17,700.00	7,618.00	8,055.82	7,685.25	150.13	42.88	91.28	-8,731.66	1,157.12	2,434.03	2,257.36	176.67	13.777	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,800.00	7,618.00	8,051.82	7,681.24	151.78	42.87	91.16	-8,731.79	1,157.11	2,380.29	2,200.48	179.81	13.238	
17,900.00	7,618.00	8,047.90	7,677.33	153.43	42.86	91.05	-8,731.90	1,157.10	2,329.59	2,146.64	182.94	12.734	
18,000.00	7,618.00	8,044.07	7,673.50	155.09	42.85	90.95	-8,732.02	1,157.10	2,282.14	2,096.09	186.05	12.266	
18,100.00	7,618.00	8,040.33	7,669.76	156.75	42.85	90.84	-8,732.13	1,157.09	2,238.15	2,049.05	189.10	11.836	
18,200.00	7,618.00	8,036.67	7,666.10	158.41	42.84	90.74	-8,732.23	1,157.09	2,197.84	2,005.78	192.05	11.444	
18,300.00	7,618.00	8,033.09	7,662.52	160.07	42.83	90.64	-8,732.34	1,157.09	2,161.39	1,966.52	194.87	11.091	
18,400.00	7,618.00	8,029.58	7,659.02	161.74	42.83	90.54	-8,732.43	1,157.08	2,129.02	1,931.49	197.52	10.779	
18,500.00	7,618.00	8,026.15	7,655.58	163.41	42.82	90.44	-8,732.53	1,157.08	2,100.90	1,900.95	199.96	10.507	
18,600.00	7,618.00	8,022.79	7,652.23	165.08	42.81	90.35	-8,732.62	1,157.08	2,077.23	1,875.09	202.14	10.276	
18,700.00	7,618.00	8,019.50	7,648.94	166.75	42.81	90.25	-8,732.71	1,157.08	2,058.13	1,854.11	204.02	10.088	
18,711.30	7,618.00	8,019.13	7,648.57	166.94	42.81	90.24	-8,732.72	1,157.08	2,056.27	1,852.06	204.21	10.069	CC, ES, SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	41.25	41.25	0.00	0.06	163.39	-7,154.46	2,133.72	7,465.88				
100.00	100.00	114.21	114.21	0.13	0.25	163.39	-7,154.23	2,133.84	7,465.67	7,465.29	0.38	N/A	
200.00	200.00	166.00	166.00	0.49	0.43	163.40	-7,154.58	2,133.50	7,466.12	7,465.20	0.92	8,097.130	
300.00	300.00	211.25	211.24	0.85	0.59	163.40	-7,155.29	2,132.97	7,467.26	7,465.82	1.44	5,184.890	
400.00	400.00	257.00	256.97	1.21	0.75	163.41	-7,156.35	2,132.31	7,469.09	7,467.13	1.96	3,811.954	
500.00	500.00	299.06	298.99	1.57	0.90	163.42	-7,157.73	2,131.43	7,471.67	7,469.20	2.47	3,025.884	
600.00	600.00	349.00	348.86	1.93	1.08	163.43	-7,160.02	2,129.86	7,475.07	7,472.07	3.01	2,486.134	
700.00	700.00	379.01	378.80	2.29	1.19	163.45	-7,161.72	2,128.65	7,479.25	7,475.77	3.47	2,152.367	
800.00	800.00	440.00	439.57	2.64	1.42	163.48	-7,165.90	2,125.68	7,484.31	7,480.25	4.06	1,844.793	
900.00	900.00	440.00	439.57	3.00	1.42	163.48	-7,165.90	2,125.68	7,490.08	7,485.67	4.41	1,696.937	
1,000.00	999.98	486.78	486.12	3.36	1.60	106.18	-7,169.80	2,123.13	7,497.22	7,492.27	4.94	1,516.833	
1,100.00	1,099.84	533.00	532.05	3.71	1.78	106.05	-7,174.29	2,120.65	7,506.32	7,500.85	5.47	1,372.671	
1,200.00	1,199.45	533.00	532.05	4.07	1.78	105.84	-7,174.29	2,120.65	7,517.26	7,511.44	5.82	1,290.844	
1,300.00	1,298.70	590.52	589.11	4.44	2.02	105.68	-7,180.73	2,117.21	7,529.88	7,523.47	6.41	1,174.788	
1,400.00	1,397.47	625.00	623.23	4.82	2.16	105.47	-7,185.03	2,114.78	7,544.34	7,537.42	6.92	1,090.514	
1,500.00	1,495.62	670.60	668.26	5.22	2.35	105.26	-7,191.19	2,111.12	7,560.50	7,553.01	7.49	1,008.849	
1,600.00	1,593.06	717.00	713.96	5.65	2.55	105.03	-7,197.97	2,106.84	7,578.33	7,570.24	8.10	936.130	
1,700.00	1,689.64	744.84	741.32	6.11	2.68	104.73	-7,202.30	2,104.02	7,597.87	7,589.22	8.65	878.127	
1,800.00	1,785.27	775.43	771.31	6.61	2.82	104.40	-7,207.34	2,100.74	7,619.17	7,609.92	9.25	823.501	
1,900.00	1,879.82	809.00	804.14	7.15	2.98	104.07	-7,213.20	2,096.91	7,642.22	7,632.32	9.90	771.920	
2,000.00	1,973.17	809.00	804.14	7.73	2.98	103.57	-7,213.20	2,096.91	7,667.12	7,656.68	10.44	734.270	
2,100.00	2,065.21	862.15	855.95	8.37	3.24	103.25	-7,223.16	2,090.41	7,693.48	7,682.22	11.27	682.738	
2,200.00	2,155.84	898.00	890.75	9.07	3.42	102.83	-7,230.35	2,085.73	7,721.67	7,709.61	12.06	640.154	
2,300.00	2,244.94	898.00	890.75	9.82	3.42	102.22	-7,230.35	2,085.73	7,751.54	7,738.80	12.74	608.488	
2,400.00	2,332.39	898.00	890.75	10.64	3.42	101.57	-7,230.35	2,085.73	7,783.29	7,769.82	13.46	578.043	
2,500.00	2,418.11	946.03	937.23	11.53	3.67	101.12	-7,240.68	2,079.37	7,816.24	7,801.76	14.47	540.068	
2,558.91	2,467.74	986.00	975.76	12.08	3.88	100.91	-7,249.95	2,074.16	7,836.78	7,821.64	15.15	517.418	
2,600.00	2,502.13	986.00	975.76	12.47	3.88	100.91	-7,249.95	2,074.16	7,851.13	7,835.64	15.49	506.900	
2,700.00	2,585.83	986.00	975.76	13.45	3.88	100.91	-7,249.95	2,074.16	7,886.84	7,870.51	16.33	482.897	
2,800.00	2,669.53	986.00	975.76	14.44	3.88	100.91	-7,249.95	2,074.16	7,923.64	7,906.46	17.18	461.095	
2,900.00	2,753.22	1,036.00	1,023.83	15.46	4.16	101.18	-7,262.20	2,067.95	7,961.34	7,943.05	18.29	435.316	
3,000.00	2,836.92	1,036.00	1,023.83	16.48	4.16	101.18	-7,262.20	2,067.95	7,999.88	7,980.73	19.15	417.797	
3,100.00	2,920.62	1,036.00	1,023.83	17.52	4.16	101.18	-7,262.20	2,067.95	8,039.48	8,019.47	20.01	401.849	
3,200.00	3,004.32	1,086.89	1,072.71	18.56	4.44	101.44	-7,275.21	2,062.36	8,079.63	8,058.52	21.11	382.688	
3,300.00	3,088.01	1,108.87	1,093.81	19.61	4.57	101.56	-7,281.00	2,060.23	8,120.79	8,098.71	22.08	367.846	
3,400.00	3,171.71	1,143.00	1,126.55	20.67	4.76	101.73	-7,290.17	2,057.27	8,162.81	8,139.71	23.10	353.373	
3,500.00	3,255.41	1,166.75	1,149.32	21.73	4.89	101.85	-7,296.65	2,055.37	8,205.56	8,181.50	24.06	341.016	
3,600.00	3,339.10	1,218.56	1,198.98	22.80	5.18	102.11	-7,310.85	2,051.30	8,248.95	8,223.78	25.16	327.846	
3,700.00	3,422.80	1,310.83	1,287.44	23.87	5.71	102.57	-7,336.10	2,044.21	8,292.75	8,266.29	26.46	313.397	
3,800.00	3,506.50	3,800.00	1,442.16	24.94	20.03	103.37	-7,378.91	2,031.18	8,336.24	8,297.81	38.42	216.964	
3,900.00	3,590.20	1,537.61	1,505.35	26.02	7.01	103.69	-7,396.07	2,025.54	8,379.88	8,350.61	29.27	286.263	
4,000.00	3,673.89	1,580.00	1,546.04	27.10	7.26	103.90	-7,407.29	2,021.68	8,424.14	8,393.82	30.31	277.911	
4,100.00	3,757.59	1,629.50	1,593.50	28.18	7.55	104.14	-7,420.54	2,016.94	8,468.97	8,437.58	31.39	269.839	
4,200.00	3,841.29	1,689.21	1,650.68	29.26	7.91	104.44	-7,436.64	2,010.90	8,514.33	8,481.82	32.51	261.926	
4,300.00	3,924.99	1,767.95	1,726.05	30.35	8.38	104.83	-7,457.85	2,002.62	8,560.02	8,526.30	33.73	253.817	
4,400.00	4,008.68	1,829.66	1,785.12	31.44	8.75	105.13	-7,474.46	1,995.99	8,606.11	8,571.26	34.85	246.960	
4,500.00	4,092.38	1,909.70	1,861.73	32.52	9.23	105.52	-7,495.99	1,987.41	8,652.57	8,616.50	36.06	239.925	
4,600.00	4,176.08	1,966.51	1,916.14	33.62	9.57	105.79	-7,511.22	1,981.52	8,699.36	8,662.21	37.15	234.186	
4,700.00	4,259.77	2,190.68	2,131.54	34.71	10.89	106.85	-7,569.63	1,960.55	8,746.10	8,706.99	39.11	223.618	
4,800.00	4,343.47	2,224.20	2,163.76	35.80	11.09	107.01	-7,578.14	1,957.00	8,792.60	8,752.54	40.06	219.469	
4,900.00	4,427.17	4,900.00	2,251.75	36.89	27.21	107.45	-7,601.73	1,945.51	8,839.71	8,786.56	53.15	166.321	
5,000.00	4,510.87	2,408.26	2,340.26	37.99	12.20	107.89	-7,624.87	1,933.72	8,886.68	8,844.10	42.58	208.699	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	2,453.00	2,383.19	39.08	12.46	108.10	-7,636.23	1,928.25	8,934.22	8,890.65	43.57	205.037	
5,200.00	4,678.26	5,200.00	2,528.18	40.18	28.42	108.79	-7,673.91	1,911.78	8,982.03	8,925.49	56.54	158.848	
5,300.00	4,761.96	2,661.12	2,583.49	41.28	13.69	109.06	-7,687.82	1,905.22	9,029.53	8,983.36	46.18	195.546	
5,400.00	4,845.66	2,681.07	2,602.66	42.37	13.80	109.15	-7,692.76	1,902.81	9,077.74	9,030.73	47.01	193.089	
5,500.00	4,929.35	2,714.00	2,634.25	43.47	14.00	109.30	-7,701.15	1,898.74	9,126.68	9,078.77	47.91	190.484	
5,600.00	5,013.05	2,755.86	2,674.36	44.57	14.25	109.49	-7,711.93	1,893.61	9,176.20	9,127.34	48.86	187.824	
5,700.00	5,096.75	2,961.68	2,872.30	45.67	15.47	110.41	-7,763.23	1,870.06	9,225.46	9,174.76	50.69	181.993	
5,800.00	5,180.45	2,976.00	2,886.09	46.77	15.55	110.48	-7,766.70	1,868.43	9,274.74	9,223.27	51.47	180.195	
5,900.00	5,264.14	3,024.44	2,932.74	47.87	15.83	110.69	-7,778.61	1,863.17	9,324.50	9,272.07	52.43	177.855	
6,000.00	5,347.84	3,064.00	2,970.81	48.97	16.06	110.86	-7,788.66	1,859.28	9,374.98	9,321.65	53.33	175.791	
6,100.00	5,431.54	3,094.94	3,000.57	50.07	16.25	110.99	-7,796.62	1,856.39	9,425.97	9,371.79	54.18	173.984	
6,200.00	5,515.23	3,159.67	3,062.82	51.17	16.63	111.27	-7,813.31	1,850.36	9,477.33	9,422.12	55.20	171.675	
6,300.00	5,598.93	3,214.69	3,115.69	52.27	16.95	111.50	-7,827.52	1,844.91	9,529.04	9,472.86	56.17	169.634	
6,400.00	5,682.63	3,269.36	3,168.17	53.38	17.28	111.74	-7,841.69	1,839.07	9,581.12	9,523.99	57.14	167.692	
6,500.00	5,766.33	3,324.20	3,220.79	54.48	17.61	111.97	-7,855.98	1,833.18	9,633.58	9,575.49	58.09	165.832	
6,600.00	5,850.02	3,378.71	3,273.08	55.58	17.94	112.20	-7,870.26	1,827.44	9,686.40	9,627.36	59.04	164.061	
6,700.00	5,933.72	3,624.28	3,509.21	56.68	19.39	113.21	-7,933.16	1,803.32	9,739.39	9,678.33	61.06	159.505	
6,800.00	6,017.42	3,675.00	3,558.11	57.79	19.68	113.41	-7,945.81	1,798.64	9,791.73	9,729.76	61.98	157.988	
6,900.00	6,101.12	3,687.14	3,569.80	58.89	19.75	113.46	-7,948.89	1,797.54	9,844.50	9,781.82	62.67	157.077	
7,000.00	6,184.81	3,737.97	3,618.75	59.99	20.05	113.66	-7,961.82	1,793.01	9,897.74	9,834.16	63.58	155.676	
7,100.00	6,268.51	7,100.00	3,708.67	61.10	39.53	114.03	-7,985.56	1,785.31	9,951.15	9,872.90	78.25	127.167	
8,800.00	7,585.69	7,636.75	7,468.90	73.43	34.51	46.88	-8,336.07	1,650.17	9,959.62	9,868.26	91.36	109.016	
8,850.00	7,599.35	7,651.00	7,483.14	73.26	34.55	49.81	-8,336.32	1,650.46	9,914.03	9,822.51	91.52	108.324	
8,900.00	7,609.33	7,661.65	7,493.79	73.07	34.57	54.93	-8,336.50	1,650.67	9,866.94	9,775.28	91.65	107.654	
8,950.00	7,615.55	7,668.62	7,500.75	72.87	34.59	64.13	-8,336.63	1,650.82	9,818.69	9,726.93	91.76	107.005	
9,000.00	7,617.97	7,671.84	7,503.98	72.65	34.60	81.65	-8,336.68	1,650.88	9,769.64	9,677.81	91.84	106.381	
9,006.60	7,618.00	7,671.99	7,504.12	72.62	34.60	84.95	-8,336.68	1,650.89	9,763.12	9,671.28	91.84	106.300	
9,100.00	7,618.00	7,673.57	7,505.70	72.22	34.61	85.00	-8,336.71	1,650.92	9,670.91	9,578.95	91.96	105.166	
9,200.00	7,618.00	7,675.26	7,507.40	71.80	34.61	85.07	-8,336.74	1,650.95	9,572.21	9,480.12	92.08	103.951	
9,300.00	7,618.00	7,676.96	7,509.09	71.41	34.62	85.13	-8,336.77	1,650.99	9,473.53	9,381.31	92.21	102.736	
9,400.00	7,618.00	7,678.66	7,510.79	71.04	34.62	85.19	-8,336.80	1,651.02	9,374.87	9,282.53	92.35	101.520	
9,500.00	7,618.00	7,680.36	7,512.49	70.68	34.63	85.26	-8,336.83	1,651.06	9,276.25	9,183.77	92.48	100.303	
9,600.00	7,618.00	7,682.06	7,514.19	70.35	34.63	85.32	-8,336.86	1,651.09	9,177.65	9,085.03	92.62	99.086	
9,700.00	7,618.00	7,683.76	7,515.89	70.04	34.64	85.38	-8,336.89	1,651.13	9,079.09	8,986.32	92.77	97.869	
9,800.00	7,618.00	7,685.46	7,517.59	69.75	34.64	85.44	-8,336.92	1,651.16	8,980.56	8,887.64	92.92	96.651	
9,900.00	7,618.00	7,687.16	7,519.29	69.47	34.64	85.51	-8,336.95	1,651.20	8,882.06	8,788.99	93.07	95.432	
10,000.00	7,618.00	7,688.87	7,521.00	69.22	34.65	85.57	-8,336.98	1,651.23	8,783.59	8,690.36	93.23	94.214	
10,100.00	7,618.00	7,690.58	7,522.71	68.99	34.65	85.63	-8,337.01	1,651.27	8,685.16	8,591.77	93.39	92.995	
10,200.00	7,618.00	7,692.29	7,524.41	68.78	34.66	85.70	-8,337.04	1,651.30	8,586.76	8,493.20	93.56	91.775	
10,300.00	7,618.00	7,694.00	7,526.12	68.59	34.66	85.76	-8,337.07	1,651.34	8,488.41	8,394.67	93.74	90.556	
10,400.00	7,618.00	7,695.71	7,527.83	68.42	34.67	85.82	-8,337.10	1,651.37	8,390.09	8,296.17	93.92	89.336	
10,500.00	7,618.00	7,697.42	7,529.55	68.28	34.67	85.89	-8,337.13	1,651.41	8,291.80	8,197.70	94.10	88.116	
10,600.00	7,618.00	7,699.13	7,531.26	68.16	34.68	85.95	-8,337.16	1,651.44	8,193.57	8,099.27	94.29	86.896	
10,700.00	7,618.00	7,700.85	7,532.97	68.06	34.68	86.01	-8,337.19	1,651.48	8,095.37	8,000.88	94.49	85.675	
10,800.00	7,618.00	7,702.56	7,534.69	67.99	34.69	86.08	-8,337.22	1,651.52	7,997.22	7,902.52	94.69	84.455	
10,900.00	7,618.00	7,704.28	7,536.41	67.95	34.69	86.14	-8,337.25	1,651.55	7,899.11	7,804.21	94.90	83.235	
11,000.00	7,618.00	7,706.00	7,538.13	67.95	34.70	86.21	-8,337.28	1,651.59	7,801.05	7,705.93	95.12	82.015	
11,100.00	7,618.00	7,707.72	7,539.85	67.97	34.70	86.27	-8,337.31	1,651.62	7,703.04	7,607.70	95.34	80.794	
11,200.00	7,618.00	7,709.45	7,541.57	68.04	34.71	86.33	-8,337.34	1,651.66	7,605.09	7,509.51	95.57	79.574	
11,300.00	7,618.00	7,711.17	7,543.29	68.15	34.71	86.40	-8,337.37	1,651.69	7,507.18	7,411.37	95.81	78.355	
11,400.00	7,618.00	7,712.90	7,545.02	68.30	34.72	86.46	-8,337.40	1,651.73	7,409.33	7,313.28	96.06	77.135	
11,500.00	7,618.00	7,714.62	7,546.74	68.50	34.72	86.52	-8,337.43	1,651.77	7,311.54	7,215.23	96.31	75.916	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
11,600.00	7,618.00	7,716.35	7,548.47	68.75	34.72	86.59	-8,337.46	1,651.80	7,213.81	7,117.24	96.57	74.697	
11,700.00	7,618.00	7,718.08	7,550.20	69.06	34.73	86.65	-8,337.49	1,651.84	7,116.14	7,019.30	96.85	73.479	
11,800.00	7,618.00	7,719.81	7,551.93	69.44	34.73	86.72	-8,337.52	1,651.87	7,018.54	6,921.41	97.13	72.261	
11,900.00	7,618.00	7,721.54	7,553.66	69.88	34.74	86.78	-8,337.55	1,651.91	6,921.01	6,823.59	97.42	71.044	
12,000.00	7,618.00	7,723.28	7,555.39	70.39	34.74	86.85	-8,337.58	1,651.95	6,823.54	6,725.82	97.72	69.828	
12,100.00	7,618.00	7,725.01	7,557.13	70.97	34.75	86.91	-8,337.61	1,651.98	6,726.15	6,628.12	98.03	68.612	
12,200.00	7,618.00	7,726.75	7,558.86	71.63	34.75	86.98	-8,337.64	1,652.02	6,628.84	6,530.49	98.35	67.397	
12,300.00	7,618.00	7,728.49	7,560.60	72.35	34.76	87.04	-8,337.68	1,652.06	6,531.61	6,432.92	98.69	66.184	
12,400.00	7,618.00	7,730.23	7,562.34	73.15	34.76	87.10	-8,337.71	1,652.09	6,434.46	6,335.42	99.04	64.971	
12,500.00	7,618.00	7,731.97	7,564.08	74.01	34.77	87.17	-8,337.74	1,652.13	6,337.40	6,238.01	99.40	63.759	
12,600.00	7,618.00	7,733.71	7,565.82	74.93	34.77	87.23	-8,337.77	1,652.17	6,240.43	6,140.67	99.77	62.549	
12,700.00	7,618.00	7,735.45	7,567.56	75.91	34.78	87.30	-8,337.80	1,652.20	6,143.56	6,043.41	100.16	61.340	
12,800.00	7,618.00	7,737.20	7,569.31	76.95	34.78	87.36	-8,337.83	1,652.24	6,046.80	5,946.24	100.56	60.132	
12,900.00	7,618.00	7,738.94	7,571.05	78.04	34.79	87.43	-8,337.86	1,652.28	5,950.13	5,849.16	100.98	58.927	
13,000.00	7,618.00	7,740.69	7,572.80	79.16	34.79	87.49	-8,337.89	1,652.31	5,853.58	5,752.17	101.41	57.723	
13,100.00	7,618.00	7,742.44	7,574.55	80.33	34.80	87.56	-8,337.92	1,652.35	5,757.15	5,655.29	101.86	56.521	
13,200.00	7,618.00	7,744.19	7,576.30	81.54	34.80	87.62	-8,337.95	1,652.39	5,660.84	5,558.51	102.33	55.321	
13,300.00	7,618.00	7,745.94	7,578.05	82.78	34.81	87.69	-8,337.98	1,652.42	5,564.66	5,461.84	102.82	54.123	
13,400.00	7,618.00	7,747.70	7,579.81	84.05	34.81	87.75	-8,338.02	1,652.46	5,468.62	5,365.29	103.32	52.927	
13,500.00	7,618.00	7,749.45	7,581.56	85.35	34.82	87.82	-8,338.05	1,652.50	5,372.71	5,268.86	103.85	51.735	
13,600.00	7,618.00	7,751.21	7,583.32	86.67	34.82	87.89	-8,338.08	1,652.54	5,276.97	5,172.56	104.40	50.545	
13,700.00	7,618.00	7,752.97	7,585.07	88.02	34.83	87.95	-8,338.11	1,652.57	5,181.38	5,076.40	104.98	49.358	
13,800.00	7,618.00	7,754.73	7,586.83	89.38	34.83	88.02	-8,338.14	1,652.61	5,085.96	4,980.38	105.57	48.174	
13,900.00	7,618.00	7,756.49	7,588.59	90.77	34.83	88.08	-8,338.17	1,652.65	4,990.72	4,884.52	106.20	46.994	
14,000.00	7,618.00	7,758.25	7,590.36	92.17	34.84	88.15	-8,338.20	1,652.68	4,895.66	4,788.81	106.85	45.817	
14,100.00	7,618.00	7,760.02	7,592.12	93.59	34.84	88.21	-8,338.23	1,652.72	4,800.81	4,693.28	107.53	44.645	
14,200.00	7,618.00	7,761.78	7,593.88	95.02	34.85	88.28	-8,338.27	1,652.76	4,706.17	4,597.93	108.25	43.477	
14,300.00	7,618.00	7,763.55	7,595.65	96.47	34.85	88.34	-8,338.30	1,652.80	4,611.76	4,502.77	108.99	42.313	
14,400.00	7,618.00	7,765.32	7,597.42	97.93	34.86	88.41	-8,338.33	1,652.84	4,517.59	4,407.82	109.77	41.155	
14,500.00	7,618.00	7,767.09	7,599.19	99.41	34.86	88.48	-8,338.36	1,652.87	4,423.67	4,313.08	110.59	40.002	
14,600.00	7,618.00	7,768.86	7,600.96	100.89	34.87	88.54	-8,338.39	1,652.91	4,330.02	4,218.58	111.44	38.854	
14,700.00	7,618.00	7,770.63	7,602.73	102.38	34.87	88.61	-8,338.42	1,652.95	4,236.66	4,124.32	112.34	37.713	
14,800.00	7,618.00	7,772.41	7,604.50	103.89	34.88	88.67	-8,338.45	1,652.99	4,143.62	4,030.34	113.28	36.578	
14,900.00	7,618.00	7,774.18	7,606.28	105.40	34.88	88.74	-8,338.49	1,653.02	4,050.90	3,936.63	114.27	35.451	
15,000.00	7,618.00	7,775.96	7,608.05	106.92	34.89	88.81	-8,338.52	1,653.06	3,958.54	3,843.23	115.31	34.331	
15,100.00	7,618.00	7,777.74	7,609.83	108.45	34.89	88.87	-8,338.55	1,653.10	3,866.55	3,750.15	116.40	33.219	
15,200.00	7,618.00	7,780.28	7,612.38	109.99	34.90	88.97	-8,338.60	1,653.16	3,774.97	3,657.42	117.55	32.114	
15,300.00	7,618.00	7,782.87	7,614.97	111.54	34.91	89.07	-8,338.64	1,653.21	3,683.83	3,565.07	118.76	31.019	
15,400.00	7,618.00	7,785.38	7,617.47	113.09	34.91	89.16	-8,338.68	1,653.26	3,593.16	3,473.13	120.03	29.934	
15,500.00	7,618.00	7,787.79	7,619.89	114.65	34.92	89.25	-8,338.72	1,653.31	3,503.00	3,381.62	121.38	28.860	
15,600.00	7,618.00	7,790.13	7,622.23	116.21	34.93	89.34	-8,338.76	1,653.36	3,413.38	3,290.59	122.79	27.798	
15,700.00	7,618.00	7,792.40	7,624.49	117.78	34.93	89.42	-8,338.80	1,653.41	3,324.35	3,200.07	124.28	26.749	
15,800.00	7,618.00	7,794.59	7,626.68	119.36	34.94	89.50	-8,338.84	1,653.46	3,235.96	3,110.11	125.85	25.712	
15,900.00	7,618.00	7,796.71	7,628.80	120.94	34.94	89.58	-8,338.87	1,653.50	3,148.27	3,020.76	127.51	24.690	
16,000.00	7,618.00	7,798.77	7,630.86	122.53	34.95	89.66	-8,338.90	1,653.54	3,061.33	2,932.07	129.26	23.684	
16,100.00	7,618.00	7,800.77	7,632.85	124.12	34.95	89.73	-8,338.93	1,653.58	2,975.21	2,844.11	131.11	22.693	
16,200.00	7,618.00	7,802.70	7,634.79	125.72	34.96	89.81	-8,338.96	1,653.62	2,889.99	2,756.93	133.05	21.720	
16,300.00	7,618.00	7,804.58	7,636.67	127.32	34.96	89.88	-8,338.99	1,653.66	2,805.74	2,670.63	135.11	20.766	
16,400.00	7,618.00	7,806.40	7,638.49	128.93	34.97	89.94	-8,339.02	1,653.70	2,722.55	2,585.27	137.28	19.832	
16,500.00	7,618.00	7,808.17	7,640.26	130.54	34.97	90.01	-8,339.04	1,653.73	2,640.53	2,500.96	139.57	18.920	
16,600.00	7,618.00	7,809.90	7,641.98	132.15	34.98	90.07	-8,339.07	1,653.77	2,559.78	2,417.81	141.98	18.030	
16,700.00	7,618.00	7,811.57	7,643.65	133.77	34.98	90.14	-8,339.09	1,653.80	2,480.44	2,335.93	144.51	17.164	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,800.00	7,618.00	7,813.20	7,645.28	135.39	34.99	90.20	-8,339.11	1,653.83	2,402.64	2,255.46	147.18	16.324	
16,900.00	7,618.00	7,814.78	7,646.86	137.01	34.99	90.26	-8,339.13	1,653.87	2,326.54	2,176.56	149.98	15.512	
17,000.00	7,618.00	7,816.32	7,648.40	138.64	35.00	90.31	-8,339.15	1,653.90	2,252.31	2,099.40	152.91	14.730	
17,100.00	7,618.00	7,817.82	7,649.90	140.27	35.00	90.37	-8,339.17	1,653.93	2,180.13	2,024.17	155.96	13.979	
17,200.00	7,618.00	7,819.28	7,651.37	141.91	35.00	90.42	-8,339.19	1,653.95	2,110.23	1,951.09	159.14	13.260	
17,300.00	7,618.00	7,820.71	7,652.79	143.55	35.01	90.48	-8,339.21	1,653.98	2,042.82	1,880.41	162.42	12.578	
17,400.00	7,618.00	7,822.09	7,654.18	145.19	35.01	90.53	-8,339.23	1,654.01	1,978.18	1,812.40	165.79	11.932	
17,500.00	7,618.00	7,823.45	7,655.53	146.83	35.01	90.58	-8,339.25	1,654.04	1,916.58	1,747.36	169.22	11.326	
17,600.00	7,618.00	7,824.77	7,656.85	148.48	35.02	90.63	-8,339.26	1,654.06	1,858.32	1,685.63	172.69	10.761	
17,700.00	7,618.00	7,826.05	7,658.13	150.13	35.02	90.68	-8,339.28	1,654.09	1,803.72	1,627.58	176.15	10.240	
17,800.00	7,618.00	7,827.31	7,659.39	151.78	35.02	90.72	-8,339.29	1,654.11	1,753.13	1,573.59	179.54	9.765	
17,900.00	7,618.00	7,828.54	7,660.62	153.43	35.03	90.77	-8,339.31	1,654.13	1,706.91	1,524.10	182.81	9.337	
18,000.00	7,618.00	7,829.73	7,661.81	155.09	35.03	90.82	-8,339.32	1,654.16	1,665.41	1,479.52	185.89	8.959	
18,100.00	7,618.00	7,830.90	7,662.98	156.75	35.03	90.86	-8,339.34	1,654.18	1,629.00	1,440.31	188.69	8.633	
18,200.00	7,618.00	7,832.04	7,664.12	158.41	35.04	90.90	-8,339.35	1,654.20	1,598.03	1,406.89	191.14	8.360	
18,300.00	7,618.00	7,833.16	7,665.24	160.07	35.04	90.94	-8,339.36	1,654.22	1,572.81	1,379.66	193.16	8.143	
18,400.00	7,618.00	7,834.25	7,666.33	161.74	35.04	90.98	-8,339.37	1,654.24	1,553.64	1,358.98	194.66	7.981	
18,500.00	7,618.00	7,835.32	7,667.40	163.41	35.05	91.02	-8,339.39	1,654.26	1,540.73	1,345.15	195.58	7.878	
18,600.00	7,618.00	7,836.36	7,668.44	165.08	35.05	91.06	-8,339.40	1,654.28	1,534.23	1,338.35	195.88	7.833	
18,649.80	7,618.00	7,836.87	7,668.95	165.91	35.05	91.08	-8,339.40	1,654.29	1,533.43	1,337.64	195.79	7.832	CC, ES, SF
18,700.00	7,618.00	7,837.38	7,669.46	166.75	35.05	91.10	-8,339.41	1,654.30	1,534.25	1,338.71	195.54	7.846	
18,711.30	7,618.00	7,837.50	7,669.57	166.94	35.05	91.11	-8,339.41	1,654.30	1,534.66	1,339.20	195.46	7.852	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	20.23	20.23	0.00	0.03	163.24	-7,111.18	2,141.80	7,426.72				
100.00	100.00	112.19	112.19	0.13	0.18	163.24	-7,111.16	2,142.12	7,426.80	7,426.48	0.32	N/A	
200.00	200.00	184.11	184.10	0.49	0.40	163.23	-7,111.00	2,143.34	7,427.09	7,426.20	0.89	8,334.829	
300.00	300.00	226.00	225.93	0.85	0.56	163.21	-7,110.68	2,145.35	7,427.89	7,426.49	1.40	5,300.086	
400.00	400.00	263.96	263.80	1.21	0.70	163.19	-7,110.46	2,148.01	7,429.51	7,427.60	1.90	3,904.076	
500.00	500.00	318.00	317.60	1.57	0.91	163.15	-7,110.65	2,153.08	7,432.29	7,429.82	2.46	3,015.888	
600.00	600.00	318.00	317.60	1.93	0.91	163.15	-7,110.65	2,153.08	7,435.71	7,432.89	2.82	2,633.478	
700.00	700.00	389.02	388.17	2.29	1.18	163.10	-7,111.39	2,161.00	7,439.97	7,436.52	3.46	2,151.287	
800.00	800.00	938.99	926.27	2.64	3.78	162.26	-7,085.17	2,266.87	7,439.71	7,433.29	6.41	1,159.849	
900.00	900.00	984.82	970.36	3.00	4.04	162.16	-7,080.92	2,278.64	7,438.68	7,431.64	7.03	1,057.526	
939.19	939.19	1,002.54	987.39	3.14	4.14	104.94	-7,079.33	2,283.28	7,438.55	7,431.28	7.27	1,022.582	
1,000.00	999.98	1,032.26	1,015.92	3.36	4.31	104.87	-7,076.75	2,291.17	7,438.86	7,431.20	7.66	971.112	
1,100.00	1,099.84	1,109.61	1,090.29	3.71	4.76	104.71	-7,070.36	2,311.47	7,440.45	7,431.99	8.46	879.479	
1,200.00	1,199.45	1,206.65	1,183.87	4.07	5.31	104.52	-7,062.81	2,336.00	7,443.14	7,433.77	9.37	794.228	
1,300.00	1,298.70	1,264.93	1,239.95	4.44	5.66	104.37	-7,058.27	2,351.22	7,447.00	7,436.91	10.08	738.465	
1,400.00	1,397.47	1,381.77	1,351.66	4.82	6.36	104.15	-7,048.80	2,384.08	7,452.11	7,440.93	11.17	666.927	
1,500.00	1,495.62	1,464.67	1,431.19	5.22	6.86	103.97	-7,042.20	2,406.54	7,457.88	7,445.80	12.07	617.772	
1,600.00	1,593.06	1,515.05	1,479.54	5.65	7.16	103.81	-7,038.41	2,420.19	7,464.92	7,452.12	12.80	583.208	
1,700.00	1,689.64	1,578.22	1,540.14	6.11	7.55	103.63	-7,034.09	2,437.48	7,473.47	7,459.83	13.63	548.127	
1,800.00	1,785.27	1,712.98	1,669.24	6.61	8.37	103.45	-7,024.45	2,474.90	7,482.70	7,467.75	14.95	500.567	
1,900.00	1,879.82	1,832.00	1,783.13	7.15	9.11	103.28	-7,015.44	2,508.30	7,492.46	7,476.24	16.21	462.125	
2,000.00	1,973.17	1,957.64	1,903.70	7.73	9.87	103.15	-7,005.79	2,542.26	7,502.56	7,485.01	17.55	427.468	
2,100.00	2,065.21	2,079.29	2,020.54	8.37	10.60	103.04	-6,996.37	2,574.79	7,513.35	7,494.44	18.91	397.313	
2,200.00	2,155.84	2,164.34	2,102.27	9.07	11.11	102.91	-6,989.72	2,597.35	7,524.79	7,504.69	20.10	374.376	
2,300.00	2,244.94	2,214.66	2,150.63	9.82	11.41	102.73	-6,985.96	2,610.79	7,537.43	7,516.30	21.14	356.612	
2,400.00	2,332.39	2,306.96	2,239.08	10.64	11.98	102.60	-6,979.39	2,636.29	7,551.47	7,528.97	22.50	335.643	
2,500.00	2,418.11	2,430.00	2,356.71	11.53	12.75	102.53	-6,969.40	2,670.95	7,565.47	7,541.35	24.12	313.625	
2,558.91	2,467.74	2,467.91	2,393.10	12.08	12.98	102.43	-6,966.45	2,681.18	7,574.20	7,549.32	24.89	304.355	
2,600.00	2,502.13	2,481.02	2,405.66	12.47	13.06	102.46	-6,965.49	2,684.80	7,580.62	7,555.28	25.34	299.108	
2,700.00	2,585.83	2,517.00	2,440.09	13.45	13.29	102.53	-6,963.04	2,694.96	7,596.86	7,570.37	26.50	286.689	
2,800.00	2,669.53	2,557.08	2,478.42	14.44	13.53	102.62	-6,960.58	2,706.41	7,613.92	7,586.22	27.70	274.915	
2,900.00	2,753.22	2,604.00	2,523.36	15.46	13.83	102.71	-6,958.04	2,719.68	7,631.67	7,602.73	28.95	263.644	
3,000.00	2,836.92	2,700.36	2,615.38	16.48	14.44	102.90	-6,952.89	2,747.78	7,649.83	7,619.29	30.54	250.523	
3,100.00	2,920.62	2,840.60	2,749.61	17.52	15.31	103.19	-6,945.29	2,787.66	7,667.83	7,635.42	32.41	236.576	
3,200.00	3,004.32	2,912.13	2,818.06	18.56	15.76	103.33	-6,941.17	2,808.01	7,685.61	7,651.77	33.85	227.066	
3,300.00	3,088.01	3,300.00	2,981.93	19.61	18.20	103.67	-6,931.43	2,857.15	7,703.87	7,666.56	37.31	206.485	
3,400.00	3,171.71	3,189.44	3,083.16	20.67	17.51	103.88	-6,924.15	2,887.58	7,720.83	7,683.20	37.63	205.184	
3,500.00	3,255.41	3,307.02	3,195.58	21.73	18.25	104.11	-6,916.33	2,921.13	7,738.10	7,698.71	39.39	196.463	
3,600.00	3,339.10	3,600.00	3,328.38	22.80	19.87	104.42	-6,908.01	2,954.87	7,754.98	7,712.94	42.04	184.471	
3,700.00	3,422.80	3,607.16	3,487.43	23.87	19.85	104.83	-6,898.29	2,988.37	7,770.88	7,727.83	43.05	180.513	
3,800.00	3,506.50	3,695.22	3,574.11	24.94	20.25	105.07	-6,893.70	3,003.17	7,786.83	7,742.37	44.46	175.127	
3,900.00	3,590.20	3,790.76	3,668.56	26.02	20.66	105.35	-6,889.42	3,016.89	7,803.02	7,757.14	45.88	170.079	
4,000.00	3,673.89	3,927.46	3,804.24	27.10	21.18	105.78	-6,883.84	3,032.57	7,819.12	7,771.70	47.42	164.883	
4,100.00	3,757.59	3,999.34	3,875.75	28.18	21.43	106.01	-6,881.19	3,039.25	7,835.27	7,786.59	48.68	160.959	
4,200.00	3,841.29	4,099.43	3,975.48	29.26	21.77	106.35	-6,877.84	3,047.13	7,851.65	7,801.63	50.02	156.967	
4,300.00	3,924.99	4,168.90	4,044.76	30.35	21.99	106.58	-6,875.75	3,051.81	7,868.35	7,817.10	51.24	153.555	
4,400.00	4,008.68	4,278.35	4,153.98	31.44	22.33	106.96	-6,872.65	3,058.23	7,885.28	7,832.70	52.58	149.957	
4,500.00	4,092.38	4,372.82	4,248.28	32.52	22.62	107.29	-6,869.99	3,063.02	7,902.35	7,848.49	53.87	146.706	
4,600.00	4,176.08	4,486.95	4,362.23	33.62	22.96	107.69	-6,866.53	3,068.51	7,919.45	7,864.24	55.20	143.458	
4,700.00	4,259.77	4,595.05	4,470.17	34.71	23.29	108.07	-6,863.02	3,073.22	7,936.57	7,880.05	56.52	140.424	
4,800.00	4,343.47	4,684.70	4,559.70	35.80	23.55	108.39	-6,860.05	3,076.72	7,953.82	7,896.05	57.77	137.688	
4,900.00	4,427.17	4,770.60	4,645.51	36.89	23.80	108.69	-6,857.27	3,079.72	7,971.35	7,912.36	59.00	135.110	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,510.87	4,941.62	4,816.32	37.99	24.30	109.29	-6,851.03	3,085.05	7,988.81	7,928.33	60.48	132.091	
5,100.00	4,594.56	5,040.63	4,915.21	39.08	24.59	109.64	-6,846.78	3,087.74	8,005.88	7,944.14	61.74	129.679	
5,200.00	4,678.26	5,128.68	5,003.16	40.18	24.84	109.96	-6,843.06	3,089.60	8,023.20	7,960.25	62.95	127.444	
5,300.00	4,761.96	5,136.00	5,010.47	41.28	24.86	109.98	-6,842.75	3,089.73	8,041.20	7,977.26	63.93	125.778	
5,400.00	4,845.66	5,210.45	5,084.86	42.37	25.07	110.25	-6,840.07	3,091.00	8,059.63	7,994.53	65.09	123.814	
5,500.00	4,929.35	5,249.04	5,123.43	43.47	25.18	110.39	-6,839.02	3,091.63	8,079.02	8,012.87	66.15	122.138	
5,600.00	5,013.05	5,310.00	5,184.37	44.57	25.35	110.61	-6,837.83	3,092.56	8,099.26	8,032.00	67.26	120.420	
5,700.00	5,096.75	5,310.00	5,184.37	45.67	25.35	110.61	-6,837.83	3,092.56	8,120.18	8,052.00	68.18	119.103	
5,800.00	5,180.45	5,366.09	5,240.45	46.77	25.50	110.81	-6,837.21	3,093.41	8,141.86	8,072.61	69.26	117.560	
5,900.00	5,264.14	5,405.68	5,280.04	47.87	25.61	110.95	-6,837.04	3,094.02	8,164.34	8,094.06	70.28	116.170	
6,000.00	5,347.84	5,445.14	5,319.49	48.97	25.72	111.09	-6,837.09	3,094.66	8,187.56	8,116.27	71.29	114.844	
6,100.00	5,431.54	5,485.00	5,359.35	50.07	25.82	111.23	-6,837.36	3,095.31	8,211.53	8,139.23	72.30	113.576	
6,200.00	5,515.23	5,566.74	5,441.08	51.17	26.04	111.53	-6,838.16	3,096.53	8,236.03	8,162.60	73.43	112.165	
6,300.00	5,598.93	6,300.00	5,645.07	52.27	28.00	112.26	-6,838.72	3,098.33	8,260.09	8,183.74	76.35	108.186	
6,400.00	5,682.63	5,956.74	5,831.03	53.38	27.09	112.92	-6,836.37	3,099.42	8,282.91	8,206.53	76.38	108.444	
6,500.00	5,766.33	6,033.28	5,907.56	54.48	27.30	113.19	-6,835.20	3,099.80	8,306.07	8,228.58	77.49	107.189	
6,600.00	5,850.02	6,120.38	5,994.65	55.58	27.55	113.50	-6,833.89	3,100.18	8,329.52	8,250.89	78.63	105.936	
6,700.00	5,933.72	6,212.37	6,086.63	56.68	27.80	113.82	-6,832.47	3,100.49	8,353.21	8,273.44	79.78	104.709	
6,800.00	6,017.42	6,317.02	6,191.27	57.79	28.10	114.19	-6,830.68	3,100.69	8,377.02	8,296.07	80.96	103.474	
6,900.00	6,101.12	6,419.19	6,293.42	58.89	28.38	114.54	-6,828.70	3,100.76	8,400.92	8,318.79	82.13	102.291	
7,000.00	6,184.81	6,519.93	6,394.13	59.99	28.67	114.89	-6,826.54	3,100.85	8,424.92	8,341.63	83.29	101.153	
7,100.00	6,268.51	6,626.52	6,500.70	61.10	28.98	115.26	-6,824.01	3,101.08	8,449.01	8,364.54	84.47	100.024	
7,200.00	6,352.21	6,734.45	6,608.58	62.20	29.29	115.63	-6,821.13	3,101.60	8,473.13	8,387.48	85.65	98.927	
7,300.00	6,435.90	6,798.07	6,672.18	63.31	29.48	115.84	-6,819.48	3,101.93	8,497.56	8,410.87	86.69	98.022	
7,400.00	6,519.60	6,870.60	6,744.69	64.41	29.69	116.09	-6,817.68	3,102.29	8,522.37	8,434.61	87.75	97.119	
7,500.00	6,603.30	6,935.80	6,809.86	65.51	29.88	116.31	-6,816.17	3,102.60	8,547.58	8,458.80	88.78	96.273	
7,600.00	6,687.00	6,999.49	6,873.54	66.62	30.07	116.52	-6,814.86	3,102.85	8,573.26	8,483.45	89.81	95.464	
7,700.00	6,770.69	7,064.09	6,938.14	67.72	30.26	116.74	-6,813.69	3,103.07	8,599.40	8,508.57	90.82	94.682	
7,800.00	6,854.39	7,137.19	7,011.22	68.83	30.47	116.98	-6,812.49	3,103.36	8,625.94	8,534.07	91.87	93.895	
7,900.00	6,938.09	7,210.35	7,084.37	69.93	30.69	117.23	-6,811.38	3,103.76	8,652.84	8,559.93	92.91	93.135	
7,933.18	6,965.86	7,234.65	7,108.67	70.30	30.76	117.31	-6,811.03	3,103.92	8,661.84	8,568.59	93.25	92.889	
7,950.00	6,980.00	7,247.03	7,121.05	70.49	30.80	115.04	-6,810.85	3,104.00	8,666.19	8,572.76	93.42	92.762	
8,000.00	7,022.68	7,284.37	7,158.38	71.01	30.91	107.61	-6,810.35	3,104.24	8,676.31	8,582.37	93.95	92.352	
8,050.00	7,066.06	7,322.24	7,196.25	71.51	31.03	99.30	-6,809.86	3,104.47	8,682.23	8,587.76	94.47	91.900	
8,100.00	7,109.82	7,360.38	7,234.38	71.97	31.14	90.43	-6,809.39	3,104.68	8,683.89	8,588.90	95.00	91.411	
8,150.00	7,153.63	7,398.49	7,272.50	72.38	31.26	81.48	-6,808.95	3,104.89	8,681.29	8,585.78	95.51	90.894	
8,200.00	7,197.14	7,445.41	7,319.41	72.74	31.40	72.99	-6,808.42	3,105.14	8,674.43	8,578.39	96.04	90.321	
8,250.00	7,240.04	7,493.86	7,367.85	73.05	31.54	65.32	-6,807.84	3,105.44	8,663.31	8,566.75	96.56	89.724	
8,300.00	7,281.99	7,541.19	7,415.19	73.31	31.69	58.64	-6,807.24	3,105.77	8,648.01	8,550.97	97.05	89.113	
8,350.00	7,322.67	7,587.05	7,461.04	73.52	31.83	53.00	-6,806.63	3,106.13	8,628.66	8,531.16	97.51	88.494	
8,400.00	7,361.77	7,621.04	7,495.02	73.68	31.93	48.26	-6,806.19	3,106.41	8,605.42	8,507.52	97.90	87.901	
8,450.00	7,399.01	7,654.68	7,528.66	73.78	32.03	44.37	-6,805.76	3,106.68	8,578.48	8,480.21	98.27	87.299	
8,500.00	7,434.08	7,686.33	7,560.31	73.85	32.13	41.18	-6,805.37	3,106.94	8,548.02	8,449.42	98.60	86.695	
8,550.00	7,466.74	7,715.76	7,589.73	73.87	32.22	38.60	-6,805.01	3,107.18	8,514.28	8,415.38	98.90	86.092	
8,600.00	7,496.72	7,742.73	7,616.70	73.85	32.30	36.53	-6,804.70	3,107.40	8,477.49	8,378.33	99.16	85.491	
8,650.00	7,523.80	7,767.67	7,641.63	73.79	32.38	34.90	-6,804.42	3,107.60	8,437.92	8,338.53	99.40	84.893	
8,700.00	7,547.77	7,790.24	7,664.21	73.70	32.45	33.68	-6,804.16	3,107.79	8,395.88	8,296.28	99.60	84.299	
8,750.00	7,568.45	7,809.65	7,683.62	73.58	32.51	32.84	-6,803.95	3,107.97	8,351.65	8,251.89	99.76	83.715	
8,800.00	7,585.69	7,825.75	7,699.71	73.43	32.56	32.41	-6,803.77	3,108.12	8,305.58	8,205.68	99.90	83.142	
8,850.00	7,599.35	7,838.40	7,712.35	73.26	32.60	32.51	-6,803.63	3,108.24	8,258.00	8,158.00	100.00	82.581	
8,900.00	7,609.33	7,847.50	7,721.45	73.07	32.63	33.53	-6,803.53	3,108.34	8,209.28	8,109.20	100.07	82.034	
8,950.00	7,615.55	7,852.97	7,726.93	72.87	32.65	37.44	-6,803.47	3,108.39	8,159.77	8,059.65	100.12	81.504	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	7,854.78	7,728.74	72.65	32.65	93.03	-6,803.45	3,108.41	8,109.85	8,009.72	100.13	80.991	
9,006.60	7,618.00	7,854.75	7,728.70	72.62	32.65	136.47	-6,803.45	3,108.41	8,103.25	8,003.12	100.13	80.925	
9,100.00	7,618.00	7,853.78	7,727.73	72.22	32.65	136.16	-6,803.46	3,108.40	8,009.86	7,909.73	100.14	79.991	
9,200.00	7,618.00	7,852.73	7,726.69	71.80	32.64	135.81	-6,803.47	3,108.39	7,909.88	7,809.74	100.14	78.990	
9,300.00	7,618.00	7,851.69	7,725.65	71.41	32.64	135.46	-6,803.49	3,108.38	7,809.89	7,709.75	100.14	77.989	
9,400.00	7,618.00	7,850.65	7,724.61	71.04	32.64	135.11	-6,803.50	3,108.37	7,709.90	7,609.75	100.15	76.987	
9,500.00	7,618.00	7,849.61	7,723.56	70.68	32.63	134.75	-6,803.51	3,108.36	7,609.91	7,509.76	100.15	75.985	
9,600.00	7,618.00	7,848.56	7,722.52	70.35	32.63	134.38	-6,803.52	3,108.35	7,509.92	7,409.77	100.16	74.982	
9,700.00	7,618.00	7,847.51	7,721.47	70.04	32.63	134.01	-6,803.53	3,108.34	7,409.94	7,309.78	100.16	73.980	
9,800.00	7,618.00	7,846.47	7,720.42	69.75	32.63	133.64	-6,803.54	3,108.33	7,309.95	7,209.78	100.17	72.977	
9,900.00	7,618.00	7,845.42	7,719.38	69.47	32.62	133.26	-6,803.55	3,108.31	7,209.96	7,109.79	100.18	71.973	
10,000.00	7,618.00	7,844.37	7,718.33	69.22	32.62	132.88	-6,803.57	3,108.30	7,109.98	7,009.79	100.18	70.969	
10,100.00	7,618.00	7,843.32	7,717.28	68.99	32.62	132.49	-6,803.58	3,108.29	7,009.99	6,909.80	100.19	69.965	
10,200.00	7,618.00	7,842.27	7,716.22	68.78	32.61	132.09	-6,803.59	3,108.28	6,910.00	6,809.80	100.20	68.961	
10,300.00	7,618.00	7,841.21	7,715.17	68.59	32.61	131.69	-6,803.60	3,108.27	6,810.02	6,709.80	100.21	67.956	
10,400.00	7,618.00	7,840.16	7,714.12	68.42	32.61	131.29	-6,803.61	3,108.26	6,710.03	6,609.81	100.22	66.951	
10,500.00	7,618.00	7,839.10	7,713.06	68.28	32.60	130.88	-6,803.62	3,108.25	6,610.04	6,509.81	100.23	65.945	
10,600.00	7,618.00	7,838.05	7,712.01	68.16	32.60	130.46	-6,803.63	3,108.24	6,510.06	6,409.81	100.25	64.940	
10,700.00	7,618.00	7,836.99	7,710.95	68.06	32.60	130.04	-6,803.65	3,108.23	6,410.07	6,309.81	100.26	63.934	
10,800.00	7,618.00	7,835.93	7,709.89	67.99	32.59	129.61	-6,803.66	3,108.22	6,310.09	6,209.81	100.27	62.928	
10,900.00	7,618.00	7,834.87	7,708.83	67.95	32.59	129.18	-6,803.67	3,108.21	6,210.10	6,109.81	100.29	61.922	
11,000.00	7,618.00	7,833.81	7,707.77	67.95	32.59	128.74	-6,803.68	3,108.20	6,110.12	6,009.81	100.31	60.915	
11,100.00	7,618.00	7,832.75	7,706.71	67.97	32.58	128.30	-6,803.69	3,108.19	6,010.13	5,909.81	100.32	59.908	
11,200.00	7,618.00	7,831.68	7,705.64	68.04	32.58	127.85	-6,803.70	3,108.18	5,910.15	5,809.81	100.34	58.901	
11,300.00	7,618.00	7,830.62	7,704.58	68.15	32.58	127.39	-6,803.72	3,108.17	5,810.17	5,709.81	100.36	57.894	
11,400.00	7,618.00	7,829.55	7,703.51	68.30	32.57	126.93	-6,803.73	3,108.16	5,710.18	5,609.81	100.38	56.887	
11,500.00	7,618.00	7,828.49	7,702.45	68.50	32.57	126.46	-6,803.74	3,108.15	5,610.20	5,509.80	100.40	55.880	
11,600.00	7,618.00	7,827.42	7,701.38	68.75	32.57	125.99	-6,803.75	3,108.14	5,510.22	5,409.80	100.42	54.872	
11,700.00	7,618.00	7,826.35	7,700.31	69.06	32.56	125.51	-6,803.76	3,108.13	5,410.24	5,309.80	100.44	53.864	
11,800.00	7,618.00	7,825.28	7,699.24	69.44	32.56	125.02	-6,803.77	3,108.12	5,310.26	5,209.79	100.47	52.856	
11,900.00	7,618.00	7,824.21	7,698.17	69.88	32.56	124.53	-6,803.79	3,108.11	5,210.28	5,109.78	100.49	51.848	
12,000.00	7,618.00	7,823.14	7,697.10	70.39	32.55	124.03	-6,803.80	3,108.10	5,110.29	5,009.78	100.52	50.840	
12,100.00	7,618.00	7,822.06	7,696.02	70.97	32.55	123.52	-6,803.81	3,108.09	5,010.31	4,909.77	100.54	49.832	
12,200.00	7,618.00	7,820.99	7,694.95	71.63	32.55	123.01	-6,803.82	3,108.08	4,910.34	4,809.76	100.57	48.824	
12,300.00	7,618.00	7,819.91	7,693.87	72.35	32.54	122.49	-6,803.83	3,108.07	4,810.36	4,709.76	100.60	47.816	
12,400.00	7,618.00	7,818.83	7,692.80	73.15	32.54	121.96	-6,803.84	3,108.06	4,710.38	4,609.75	100.63	46.807	
12,500.00	7,618.00	7,817.76	7,691.72	74.01	32.54	121.43	-6,803.86	3,108.05	4,610.40	4,509.74	100.67	45.799	
12,600.00	7,618.00	7,816.68	7,690.64	74.93	32.53	120.89	-6,803.87	3,108.04	4,510.43	4,409.73	100.70	44.791	
12,700.00	7,618.00	7,815.60	7,689.56	75.91	32.53	120.35	-6,803.88	3,108.03	4,410.45	4,309.71	100.74	43.782	
12,800.00	7,618.00	7,814.51	7,688.48	76.95	32.53	119.80	-6,803.89	3,108.02	4,310.48	4,209.70	100.77	42.774	
12,900.00	7,618.00	7,813.43	7,687.39	78.04	32.52	119.24	-6,803.90	3,108.00	4,210.50	4,109.69	100.81	41.765	
13,000.00	7,618.00	7,812.35	7,686.31	79.16	32.52	118.68	-6,803.92	3,107.99	4,110.53	4,009.67	100.85	40.757	
13,100.00	7,618.00	7,811.26	7,685.22	80.33	32.52	118.10	-6,803.93	3,107.98	4,010.56	3,909.66	100.90	39.749	
13,200.00	7,618.00	7,810.17	7,684.14	81.54	32.51	117.53	-6,803.94	3,107.97	3,910.59	3,809.64	100.94	38.740	
13,300.00	7,618.00	7,809.09	7,683.05	82.78	32.51	116.94	-6,803.95	3,107.96	3,810.62	3,709.62	100.99	37.732	
13,400.00	7,618.00	7,808.00	7,681.96	84.05	32.51	116.35	-6,803.96	3,107.95	3,710.65	3,609.61	101.04	36.724	
13,500.00	7,618.00	7,806.91	7,680.87	85.35	32.50	115.75	-6,803.98	3,107.94	3,610.68	3,509.59	101.09	35.716	
13,600.00	7,618.00	7,805.82	7,679.78	86.67	32.50	115.15	-6,803.99	3,107.93	3,510.72	3,409.57	101.15	34.708	
13,700.00	7,618.00	7,804.72	7,678.69	88.02	32.50	114.54	-6,804.00	3,107.92	3,410.75	3,309.54	101.21	33.700	
13,800.00	7,618.00	7,803.63	7,677.59	89.38	32.49	113.92	-6,804.01	3,107.91	3,310.79	3,209.52	101.27	32.692	
13,900.00	7,618.00	7,802.53	7,676.50	90.77	32.49	113.30	-6,804.02	3,107.90	3,210.83	3,109.49	101.34	31.685	
14,000.00	7,618.00	7,801.44	7,675.40	92.17	32.49	112.67	-6,804.04	3,107.89	3,110.87	3,009.47	101.41	30.677	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,618.00	7,800.34	7,674.30	93.59	32.48	112.03	-6,804.05	3,107.88	3,010.92	2,909.44	101.48	29.670	
14,200.00	7,618.00	7,799.24	7,673.21	95.02	32.48	111.39	-6,804.06	3,107.87	2,910.97	2,809.41	101.56	28.663	
14,300.00	7,618.00	7,798.14	7,672.11	96.47	32.48	110.74	-6,804.07	3,107.86	2,811.02	2,709.37	101.64	27.656	
14,400.00	7,618.00	7,797.04	7,671.01	97.93	32.47	110.08	-6,804.09	3,107.85	2,711.07	2,609.34	101.73	26.649	
14,500.00	7,618.00	7,795.94	7,669.90	99.41	32.47	109.42	-6,804.10	3,107.84	2,611.13	2,509.30	101.83	25.643	
14,600.00	7,618.00	7,794.84	7,668.80	100.89	32.47	108.75	-6,804.11	3,107.83	2,511.19	2,409.26	101.93	24.637	
14,700.00	7,618.00	7,793.73	7,667.70	102.38	32.46	108.08	-6,804.12	3,107.83	2,411.25	2,309.21	102.04	23.631	
14,800.00	7,618.00	7,792.63	7,666.59	103.89	32.46	107.40	-6,804.13	3,107.82	2,311.33	2,209.17	102.16	22.625	
14,900.00	7,618.00	7,791.52	7,665.48	105.40	32.46	106.72	-6,804.15	3,107.81	2,211.40	2,109.11	102.29	21.619	
15,000.00	7,618.00	7,790.41	7,664.38	106.92	32.45	106.03	-6,804.16	3,107.80	2,111.49	2,009.06	102.43	20.614	
15,100.00	7,618.00	7,789.30	7,663.27	108.45	32.45	105.33	-6,804.17	3,107.79	2,011.58	1,909.00	102.58	19.609	
15,200.00	7,618.00	7,788.19	7,662.16	109.99	32.44	104.63	-6,804.18	3,107.78	1,911.68	1,808.93	102.75	18.605	
15,300.00	7,618.00	7,787.08	7,661.04	111.54	32.44	103.92	-6,804.20	3,107.77	1,811.79	1,708.85	102.94	17.601	
15,400.00	7,618.00	7,785.97	7,659.93	113.09	32.44	103.21	-6,804.21	3,107.76	1,711.91	1,608.77	103.15	16.597	
15,500.00	7,618.00	7,784.85	7,658.82	114.65	32.43	102.49	-6,804.22	3,107.75	1,612.05	1,508.67	103.38	15.594	
15,600.00	7,618.00	7,783.74	7,657.70	116.21	32.43	101.77	-6,804.23	3,107.74	1,512.20	1,408.57	103.64	14.591	
15,700.00	7,618.00	7,782.62	7,656.58	117.78	32.43	101.05	-6,804.25	3,107.73	1,412.38	1,308.44	103.94	13.589	
15,800.00	7,618.00	7,781.50	7,655.47	119.36	32.42	100.32	-6,804.26	3,107.72	1,312.58	1,208.30	104.28	12.587	
15,900.00	7,618.00	7,780.38	7,654.35	120.94	32.42	99.59	-6,804.27	3,107.71	1,212.82	1,108.14	104.68	11.586	
16,000.00	7,618.00	7,779.26	7,653.23	122.53	32.42	98.85	-6,804.28	3,107.70	1,113.09	1,007.94	105.15	10.586	
16,100.00	7,618.00	7,778.14	7,652.11	124.12	32.41	98.11	-6,804.30	3,107.69	1,013.42	907.71	105.71	9.587	
16,200.00	7,618.00	7,777.02	7,650.98	125.72	32.41	97.36	-6,804.31	3,107.68	913.82	807.42	106.40	8.589	
16,300.00	7,618.00	7,775.89	7,649.86	127.32	32.41	96.62	-6,804.32	3,107.67	814.31	707.05	107.26	7.592	
16,400.00	7,618.00	7,774.77	7,648.73	128.93	32.40	95.87	-6,804.33	3,107.66	714.94	606.57	108.37	6.598	
16,500.00	7,618.00	7,773.64	7,647.61	130.54	32.40	95.11	-6,804.35	3,107.65	615.77	505.93	109.84	5.606	
16,600.00	7,618.00	7,772.51	7,646.48	132.15	32.40	94.36	-6,804.36	3,107.64	516.92	405.02	111.90	4.619	
16,700.00	7,618.00	7,771.38	7,645.35	133.77	32.39	93.60	-6,804.37	3,107.63	418.61	303.64	114.98	3.641	
16,800.00	7,618.00	7,770.25	7,644.22	135.39	32.39	92.84	-6,804.39	3,107.62	321.35	201.38	119.97	2.679	
16,900.00	7,618.00	7,769.12	7,643.09	137.01	32.39	92.08	-6,804.40	3,107.61	226.48	97.34	129.14	1.754	
17,000.00	7,618.00	7,767.99	7,641.95	138.64	32.38	91.32	-6,804.41	3,107.60	138.98	-9.24	148.22	0.938	Level 1
17,100.00	7,618.00	7,766.85	7,640.82	140.27	32.38	90.55	-6,804.42	3,107.59	85.65	-80.59	166.24	0.515	Level 1, ES, SF
17,109.93	7,618.00	7,766.74	7,640.71	140.44	32.38	90.48	-6,804.43	3,107.59	85.07	-78.30	163.37	0.521	Level 1, CC
17,200.00	7,618.00	7,765.72	7,639.68	141.91	32.38	89.79	-6,804.44	3,107.58	123.91	11.15	112.76	1.099	Level 2
17,300.00	7,618.00	7,764.58	7,638.55	143.55	32.37	89.02	-6,804.45	3,107.57	208.25	116.06	92.19	2.259	
17,400.00	7,618.00	7,763.44	7,637.41	145.19	32.37	88.26	-6,804.46	3,107.56	302.29	212.35	89.95	3.361	
17,500.00	7,618.00	7,762.31	7,636.28	146.83	32.36	87.49	-6,804.48	3,107.55	399.24	308.48	90.75	4.399	
17,600.00	7,618.00	7,761.17	7,635.14	148.48	32.36	86.73	-6,804.49	3,107.55	497.39	405.50	91.90	5.413	
17,700.00	7,618.00	7,760.03	7,634.00	150.13	32.36	85.97	-6,804.50	3,107.54	596.16	503.24	92.92	6.416	
17,800.00	7,618.00	7,758.89	7,632.86	151.78	32.35	85.20	-6,804.51	3,107.53	695.27	601.50	93.77	7.414	
17,900.00	7,618.00	7,757.74	7,631.71	153.43	32.35	84.44	-6,804.53	3,107.52	794.61	700.13	94.48	8.410	
18,000.00	7,618.00	7,756.59	7,630.56	155.09	32.35	83.68	-6,804.54	3,107.51	894.09	799.02	95.07	9.404	
18,100.00	7,618.00	7,755.44	7,629.41	156.75	32.34	82.91	-6,804.55	3,107.50	993.68	898.11	95.57	10.398	
18,200.00	7,618.00	7,754.29	7,628.26	158.41	32.34	82.15	-6,804.57	3,107.49	1,093.34	997.34	95.99	11.390	
18,300.00	7,618.00	7,753.13	7,627.10	160.07	32.34	81.39	-6,804.58	3,107.48	1,193.05	1,096.69	96.36	12.381	
18,400.00	7,618.00	7,751.97	7,625.94	161.74	32.33	80.63	-6,804.59	3,107.47	1,292.81	1,196.13	96.68	13.372	
18,500.00	7,618.00	7,750.81	7,624.78	163.41	32.33	79.87	-6,804.61	3,107.46	1,392.60	1,295.64	96.97	14.362	
18,600.00	7,618.00	7,749.65	7,623.61	165.08	32.33	79.11	-6,804.62	3,107.45	1,492.42	1,395.20	97.22	15.351	
18,700.00	7,618.00	7,748.48	7,622.45	166.75	32.32	78.36	-6,804.63	3,107.44	1,592.26	1,494.81	97.45	16.339	
18,711.30	7,618.00	7,748.35	7,622.31	166.94	32.32	78.28	-6,804.63	3,107.44	1,603.55	1,506.08	97.47	16.451	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	163.33	-7,147.24	2,139.84	7,460.73				
100.00	100.00	42.97	42.96	0.13	0.08	163.33	-7,147.34	2,140.30	7,461.34	7,461.14	0.20	N/A	
200.00	200.00	83.40	83.38	0.49	0.17	163.32	-7,147.61	2,141.58	7,462.83	7,462.19	0.64	N/A	
300.00	300.00	161.06	160.98	0.85	0.43	163.30	-7,148.36	2,144.47	7,464.83	7,463.55	1.28	5,835.610	
400.00	400.00	227.00	226.87	1.21	0.67	163.28	-7,149.21	2,146.93	7,467.17	7,465.29	1.88	3,979.701	
500.00	500.00	279.73	279.55	1.57	0.86	163.27	-7,150.16	2,148.98	7,470.06	7,467.63	2.43	3,079.236	
600.00	600.00	318.00	317.77	1.93	1.00	163.26	-7,151.09	2,150.58	7,473.67	7,470.74	2.92	2,556.890	
700.00	700.00	374.13	373.81	2.29	1.21	163.24	-7,152.71	2,153.43	7,477.96	7,474.47	3.49	2,144.883	
800.00	800.00	410.00	409.58	2.64	1.35	163.23	-7,153.87	2,155.73	7,482.98	7,479.01	3.98	1,882.395	
900.00	900.00	410.00	409.58	3.00	1.35	163.23	-7,153.87	2,155.73	7,489.16	7,484.83	4.33	1,728.603	
1,000.00	999.98	456.54	455.95	3.36	1.53	105.88	-7,155.96	2,159.06	7,496.45	7,491.60	4.86	1,543.108	
1,100.00	1,099.84	502.00	501.18	3.71	1.70	105.70	-7,159.03	2,162.53	7,506.15	7,500.78	5.38	1,395.816	
1,200.00	1,199.45	502.00	501.18	4.07	1.70	105.48	-7,159.03	2,162.53	7,517.45	7,511.72	5.73	1,311.329	
1,300.00	1,298.70	502.00	501.18	4.44	1.70	105.21	-7,159.03	2,162.53	7,530.98	7,524.88	6.10	1,235.539	
1,400.00	1,397.47	549.67	548.50	4.82	1.90	104.95	-7,163.14	2,166.58	7,546.15	7,539.50	6.65	1,134.810	
1,500.00	1,495.62	594.00	592.40	5.22	2.08	104.66	-7,167.56	2,170.87	7,563.36	7,556.15	7.21	1,049.341	
1,600.00	1,593.06	594.00	592.40	5.65	2.08	104.28	-7,167.56	2,170.87	7,582.22	7,574.60	7.62	995.224	
1,700.00	1,689.64	636.70	634.58	6.11	2.26	103.93	-7,172.23	2,175.63	7,602.85	7,594.62	8.22	924.365	
1,800.00	1,785.27	686.00	683.12	6.61	2.47	103.56	-7,177.93	2,182.04	7,625.21	7,616.32	8.89	857.857	
1,900.00	1,879.82	717.08	713.65	7.15	2.62	103.14	-7,181.62	2,186.56	7,649.05	7,639.52	9.52	803.236	
2,000.00	1,973.17	778.00	773.35	7.73	2.90	102.74	-7,188.75	2,196.33	7,674.20	7,663.87	10.32	743.489	
2,100.00	2,065.21	809.29	803.94	8.37	3.05	102.27	-7,192.49	2,201.75	7,700.75	7,689.71	11.05	697.099	
2,200.00	2,155.84	855.00	848.53	9.07	3.27	101.80	-7,198.38	2,209.93	7,728.92	7,717.04	11.88	650.468	
2,300.00	2,244.94	855.00	848.53	9.82	3.27	101.19	-7,198.38	2,209.93	7,758.54	7,745.97	12.57	617.471	
2,400.00	2,332.39	904.24	896.42	10.64	3.53	100.68	-7,205.19	2,219.10	7,789.57	7,776.04	13.53	575.853	
2,500.00	2,418.11	942.00	933.07	11.53	3.72	100.12	-7,210.69	2,226.36	7,822.02	7,807.53	14.49	539.906	
2,558.91	2,467.74	942.00	933.07	12.08	3.72	99.71	-7,210.69	2,226.36	7,841.80	7,826.82	14.98	523.649	
2,600.00	2,502.13	942.00	933.07	12.47	3.72	99.71	-7,210.69	2,226.36	7,855.90	7,840.58	15.32	512.703	
2,700.00	2,585.83	993.43	982.85	13.45	4.00	99.87	-7,218.69	2,236.48	7,890.48	7,874.05	16.43	480.361	
2,800.00	2,669.53	1,036.00	1,023.95	14.44	4.23	100.01	-7,225.82	2,245.00	7,926.03	7,908.53	17.51	452.779	
2,900.00	2,753.22	1,056.13	1,043.35	15.46	4.34	100.07	-7,229.32	2,249.05	7,962.28	7,943.80	18.48	430.853	
3,000.00	2,836.92	3,000.00	1,132.65	16.48	15.40	100.37	-7,245.71	2,267.52	7,999.15	7,970.74	28.41	281.596	
3,100.00	2,920.62	1,230.91	1,211.91	17.52	5.32	100.63	-7,260.02	2,283.59	8,035.87	8,014.74	21.14	380.200	
3,200.00	3,004.32	1,259.60	1,239.54	18.56	5.49	100.72	-7,265.12	2,289.38	8,073.20	8,051.03	22.17	364.117	
3,300.00	3,088.01	1,289.00	1,267.78	19.61	5.66	100.81	-7,270.50	2,295.53	8,111.29	8,088.08	23.21	349.447	
3,400.00	3,171.71	1,340.21	1,316.89	20.67	5.96	100.97	-7,280.09	2,306.49	8,150.01	8,125.64	24.37	334.371	
3,500.00	3,255.41	1,393.91	1,368.30	21.73	6.28	101.13	-7,290.32	2,318.11	8,189.23	8,163.67	25.55	320.491	
3,600.00	3,339.10	1,450.22	1,422.15	22.80	6.63	101.30	-7,301.20	2,330.48	8,228.90	8,202.15	26.75	307.654	
3,700.00	3,422.80	1,463.00	1,434.36	23.87	6.70	101.34	-7,303.69	2,333.31	8,269.19	8,241.50	27.69	298.612	
3,800.00	3,506.50	1,516.88	1,485.75	24.94	7.04	101.50	-7,314.49	2,345.36	8,310.00	8,281.12	28.87	287.809	
3,900.00	3,590.20	1,550.00	1,517.26	26.02	7.25	101.59	-7,321.43	2,352.83	8,351.58	8,321.65	29.93	279.038	
4,000.00	3,673.89	1,590.12	1,555.36	27.10	7.51	101.71	-7,330.02	2,362.00	8,393.80	8,362.77	31.03	270.526	
4,100.00	3,757.59	1,638.00	1,600.74	28.18	7.82	101.85	-7,340.45	2,373.17	8,436.54	8,404.37	32.17	262.250	
4,200.00	3,841.29	1,638.00	1,600.74	29.26	7.82	101.85	-7,340.45	2,373.17	8,480.00	8,446.99	33.01	256.887	
4,300.00	3,924.99	1,691.84	1,651.61	30.35	8.17	102.00	-7,352.59	2,385.99	8,523.91	8,489.72	34.19	249.332	
4,400.00	4,008.68	2,181.67	2,116.23	31.44	11.39	103.35	-7,456.75	2,500.57	8,568.15	8,530.02	38.13	224.701	
4,500.00	4,092.38	2,249.00	2,180.65	32.52	11.81	103.54	-7,469.52	2,515.38	8,608.83	8,569.42	39.40	218.475	
4,600.00	4,176.08	2,284.65	2,214.70	33.62	12.03	103.63	-7,476.39	2,523.40	8,649.95	8,609.47	40.48	213.673	
4,700.00	4,259.77	2,336.00	2,263.60	34.71	12.36	103.77	-7,486.50	2,535.37	8,691.69	8,650.04	41.66	208.654	
4,800.00	4,343.47	2,369.10	2,295.08	35.80	12.58	103.86	-7,493.17	2,543.18	8,733.94	8,691.23	42.71	204.498	
4,900.00	4,427.17	2,635.52	2,550.00	36.89	14.25	104.58	-7,544.61	2,600.91	8,774.91	8,729.67	45.24	193.978	
5,000.00	4,510.87	2,685.00	2,597.41	37.99	14.55	104.71	-7,554.02	2,611.47	8,816.13	8,769.74	46.39	190.048	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	2,711.73	2,622.97	39.08	14.72	104.78	-7,559.21	2,617.34	8,857.88	8,810.48	47.40	186.885	
5,200.00	4,678.26	5,200.00	2,716.10	40.18	30.91	105.03	-7,578.18	2,640.08	8,900.07	8,838.48	61.59	144.504	
5,300.00	4,761.96	2,973.11	2,872.05	41.28	16.41	105.43	-7,608.31	2,679.46	8,941.46	8,890.65	50.80	175.997	
5,400.00	4,845.66	3,017.38	2,914.30	42.37	16.69	105.54	-7,616.49	2,689.85	8,983.09	8,931.16	51.93	172.989	
5,500.00	4,929.35	3,035.00	2,931.12	43.47	16.81	105.58	-7,619.82	2,693.91	9,025.30	8,972.43	52.87	170.720	
5,600.00	5,013.05	3,087.20	2,980.90	44.57	17.15	105.71	-7,629.96	2,705.93	9,067.99	9,013.96	54.03	167.828	
5,700.00	5,096.75	3,122.00	3,014.01	45.67	17.37	105.80	-7,636.97	2,714.04	9,111.34	9,056.26	55.07	165.441	
5,800.00	5,180.45	3,150.88	3,041.44	46.77	17.56	105.87	-7,642.94	2,720.80	9,155.27	9,099.21	56.07	163.289	
5,900.00	5,264.14	3,181.82	3,070.80	47.87	17.77	105.94	-7,649.52	2,728.03	9,199.80	9,142.73	57.07	161.200	
6,000.00	5,347.84	3,209.00	3,096.56	48.97	17.95	106.01	-7,655.43	2,734.36	9,244.92	9,186.89	58.04	159.286	
6,100.00	5,431.54	3,209.00	3,096.56	50.07	17.95	106.01	-7,655.43	2,734.36	9,290.79	9,231.99	58.80	157.996	
6,200.00	5,515.23	3,256.14	3,141.11	51.17	18.27	106.12	-7,666.12	2,745.43	9,337.06	9,277.16	59.91	155.863	
6,300.00	5,598.93	3,296.00	3,178.64	52.27	18.55	106.22	-7,675.65	2,754.91	9,384.16	9,323.21	60.95	153.968	
6,400.00	5,682.63	3,646.00	3,508.49	53.38	20.98	107.01	-7,752.70	2,842.90	9,429.56	9,365.20	64.36	146.516	
6,500.00	5,766.33	3,685.76	3,546.01	54.48	21.26	107.10	-7,761.00	2,853.12	9,474.68	9,409.26	65.42	144.825	
6,600.00	5,850.02	3,733.00	3,590.55	55.58	21.59	107.20	-7,771.23	2,865.06	9,520.38	9,453.85	66.54	143.086	
6,700.00	5,933.72	3,753.95	3,610.30	56.68	21.73	107.24	-7,775.88	2,870.30	9,566.56	9,499.12	67.44	141.851	
6,800.00	6,017.42	3,792.72	3,646.82	57.79	22.00	107.33	-7,784.63	2,879.91	9,613.26	9,544.78	68.48	140.388	
6,900.00	6,101.12	3,836.50	3,688.05	58.89	22.31	107.43	-7,794.73	2,890.66	9,660.43	9,590.88	69.55	138.908	
7,000.00	6,184.81	6,549.03	6,339.70	59.99	34.00	114.71	-8,087.89	3,188.52	9,688.08	9,604.32	83.76	115.665	
7,100.00	6,268.51	6,660.92	6,451.56	61.10	34.23	115.05	-8,086.28	3,187.30	9,712.92	9,627.95	84.97	114.314	
7,200.00	6,352.21	6,749.21	6,539.84	62.20	34.41	115.32	-8,084.81	3,186.54	9,737.82	9,651.71	86.12	113.076	
7,300.00	6,435.90	6,824.31	6,614.93	63.31	34.57	115.55	-8,083.59	3,186.06	9,763.02	9,675.79	87.23	111.917	
7,400.00	6,519.60	6,895.61	6,686.22	64.41	34.72	115.76	-8,082.50	3,185.77	9,788.54	9,700.20	88.34	110.806	
7,500.00	6,603.30	6,958.40	6,749.00	65.51	34.86	115.95	-8,081.64	3,185.74	9,814.45	9,725.02	89.42	109.751	
7,600.00	6,687.00	7,021.37	6,811.97	66.62	35.00	116.14	-8,080.90	3,185.96	9,840.77	9,750.26	90.51	108.732	
7,700.00	6,770.69	7,080.85	6,871.45	67.72	35.15	116.31	-8,080.33	3,186.40	9,867.50	9,775.92	91.58	107.751	
7,800.00	6,854.39	7,137.42	6,928.01	68.83	35.29	116.47	-8,079.93	3,187.03	9,894.68	9,802.04	92.64	106.808	
7,900.00	6,938.09	7,194.11	6,984.69	69.93	35.43	116.64	-8,079.68	3,187.89	9,922.31	9,828.62	93.70	105.897	
7,933.18	6,965.86	7,225.00	7,015.58	70.30	35.51	116.72	-8,079.60	3,188.45	9,931.59	9,837.51	94.08	105.561	
7,950.00	6,980.00	7,225.00	7,015.58	70.49	35.51	114.42	-8,079.60	3,188.45	9,936.06	9,841.83	94.23	105.442	
8,000.00	7,022.68	7,255.85	7,046.42	71.01	35.59	106.97	-8,079.57	3,189.06	9,946.61	9,851.84	94.78	104.949	
8,050.00	7,066.06	7,290.16	7,080.72	71.51	35.69	98.64	-8,079.56	3,189.80	9,952.96	9,857.63	95.33	104.405	
8,100.00	7,109.82	7,324.82	7,115.37	71.97	35.78	89.74	-8,079.58	3,190.60	9,955.06	9,859.18	95.88	103.826	
8,150.00	7,153.63	7,359.57	7,150.12	72.38	35.88	80.77	-8,079.63	3,191.47	9,952.90	9,856.48	96.42	103.221	
8,200.00	7,197.14	7,394.18	7,184.71	72.74	35.97	72.21	-8,079.71	3,192.39	9,946.49	9,849.54	96.95	102.596	
8,250.00	7,240.04	7,425.36	7,215.88	73.05	36.06	64.45	-8,079.82	3,193.28	9,935.88	9,838.44	97.45	101.964	
8,300.00	7,281.99	7,455.38	7,245.88	73.31	36.15	57.68	-8,079.96	3,194.23	9,921.16	9,823.24	97.92	101.324	
8,350.00	7,322.67	7,484.61	7,275.10	73.52	36.23	51.92	-8,080.14	3,195.24	9,902.43	9,804.07	98.36	100.678	
8,400.00	7,361.77	7,512.85	7,303.31	73.68	36.31	47.09	-8,080.34	3,196.28	9,879.81	9,781.05	98.77	100.031	
8,450.00	7,399.01	7,539.86	7,330.30	73.78	36.39	43.09	-8,080.56	3,197.36	9,853.49	9,754.34	99.15	99.385	
8,500.00	7,434.08	7,574.00	7,364.41	73.85	36.49	39.79	-8,080.89	3,198.81	9,823.63	9,724.11	99.52	98.712	
8,550.00	7,466.74	7,590.49	7,380.88	73.87	36.54	37.02	-8,081.06	3,199.55	9,790.45	9,690.64	99.80	98.096	
8,600.00	7,496.72	7,614.18	7,404.55	73.85	36.62	34.75	-8,081.32	3,200.68	9,754.19	9,654.10	100.09	97.455	
8,650.00	7,523.80	7,635.73	7,426.07	73.79	36.69	32.87	-8,081.57	3,201.76	9,715.10	9,614.77	100.34	96.826	
8,700.00	7,547.77	7,654.96	7,445.26	73.70	36.75	31.30	-8,081.81	3,202.77	9,673.49	9,572.94	100.55	96.208	
8,750.00	7,568.45	7,671.68	7,461.96	73.58	36.80	29.98	-8,082.03	3,203.68	9,629.64	9,528.91	100.72	95.605	
8,800.00	7,585.69	7,685.77	7,476.03	73.43	36.84	28.84	-8,082.22	3,204.47	9,583.88	9,483.02	100.86	95.018	
8,850.00	7,599.35	7,697.09	7,487.32	73.26	36.88	27.77	-8,082.38	3,205.12	9,536.56	9,435.59	100.97	94.449	
8,900.00	7,609.33	7,705.53	7,495.75	73.07	36.90	26.56	-8,082.50	3,205.62	9,488.02	9,386.97	101.05	93.898	
8,950.00	7,615.55	7,711.02	7,501.23	72.87	36.92	24.34	-8,082.58	3,205.95	9,438.63	9,337.54	101.09	93.369	
9,000.00	7,617.97	7,713.50	7,503.70	72.65	36.93	8.42	-8,082.61	3,206.10	9,388.76	9,287.65	101.10	92.862	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,006.60	7,618.00	7,713.60	7,503.80	72.62	36.93	-7.44	-8,082.61	3,206.10	9,382.16	9,281.05	101.11	92.796	
9,100.00	7,618.00	7,714.64	7,504.84	72.22	36.93	-7.52	-8,082.63	3,206.17	9,288.77	9,187.67	101.10	91.877	
9,200.00	7,618.00	7,715.76	7,505.96	71.80	36.94	-7.61	-8,082.65	3,206.23	9,188.78	9,087.68	101.10	90.892	
9,300.00	7,618.00	7,716.88	7,507.08	71.41	36.94	-7.70	-8,082.66	3,206.30	9,088.79	8,987.70	101.09	89.907	
9,400.00	7,618.00	7,718.01	7,508.21	71.04	36.94	-7.80	-8,082.68	3,206.37	8,988.80	8,887.72	101.09	88.921	
9,500.00	7,618.00	7,719.15	7,509.34	70.68	36.95	-7.89	-8,082.70	3,206.44	8,888.81	8,787.73	101.08	87.935	
9,600.00	7,618.00	7,720.29	7,510.48	70.35	36.95	-7.99	-8,082.71	3,206.51	8,788.82	8,687.74	101.08	86.949	
9,700.00	7,618.00	7,721.43	7,511.62	70.04	36.95	-8.09	-8,082.73	3,206.58	8,688.84	8,587.76	101.08	85.963	
9,800.00	7,618.00	7,722.59	7,512.77	69.75	36.96	-8.20	-8,082.75	3,206.65	8,588.85	8,487.77	101.07	84.976	
9,900.00	7,618.00	7,723.74	7,513.93	69.47	36.96	-8.30	-8,082.76	3,206.72	8,488.86	8,387.79	101.07	83.988	
10,000.00	7,618.00	7,724.91	7,515.09	69.22	36.97	-8.41	-8,082.78	3,206.79	8,388.87	8,287.80	101.07	83.001	
10,100.00	7,618.00	7,726.08	7,516.26	68.99	36.97	-8.52	-8,082.80	3,206.87	8,288.88	8,187.81	101.07	82.013	
10,200.00	7,618.00	7,727.25	7,517.43	68.78	36.97	-8.63	-8,082.82	3,206.94	8,188.89	8,087.83	101.07	81.025	
10,300.00	7,618.00	7,728.43	7,518.61	68.59	36.98	-8.75	-8,082.83	3,207.01	8,088.90	7,987.84	101.07	80.037	
10,400.00	7,618.00	7,729.62	7,519.79	68.42	36.98	-8.87	-8,082.85	3,207.08	7,988.91	7,887.85	101.06	79.048	
10,500.00	7,618.00	7,730.81	7,520.98	68.28	36.98	-8.99	-8,082.87	3,207.16	7,888.93	7,787.86	101.06	78.059	
10,600.00	7,618.00	7,732.01	7,522.18	68.16	36.99	-9.12	-8,082.89	3,207.23	7,788.94	7,687.87	101.06	77.070	
10,700.00	7,618.00	7,733.21	7,523.38	68.06	36.99	-9.25	-8,082.91	3,207.31	7,688.95	7,587.89	101.06	76.080	
10,800.00	7,618.00	7,734.42	7,524.58	67.99	36.99	-9.38	-8,082.93	3,207.38	7,588.96	7,487.90	101.06	75.091	
10,900.00	7,618.00	7,735.64	7,525.80	67.95	37.00	-9.51	-8,082.94	3,207.46	7,488.97	7,387.91	101.06	74.101	
11,000.00	7,618.00	7,736.86	7,527.02	67.95	37.00	-9.65	-8,082.96	3,207.54	7,388.99	7,287.92	101.07	73.111	
11,100.00	7,618.00	7,738.09	7,528.24	67.97	37.01	-9.79	-8,082.98	3,207.62	7,289.00	7,187.93	101.07	72.121	
11,200.00	7,618.00	7,739.32	7,529.48	68.04	37.01	-9.94	-8,083.00	3,207.69	7,189.01	7,087.94	101.07	71.130	
11,300.00	7,618.00	7,740.56	7,530.72	68.15	37.01	-10.09	-8,083.02	3,207.77	7,089.02	6,987.95	101.07	70.140	
11,400.00	7,618.00	7,741.81	7,531.96	68.30	37.02	-10.24	-8,083.04	3,207.85	6,989.03	6,887.96	101.07	69.149	
11,500.00	7,618.00	7,743.07	7,533.21	68.50	37.02	-10.40	-8,083.06	3,207.93	6,889.05	6,787.97	101.07	68.159	
11,600.00	7,618.00	7,744.33	7,534.47	68.75	37.03	-10.57	-8,083.08	3,208.01	6,789.06	6,687.98	101.08	67.168	
11,700.00	7,618.00	7,745.59	7,535.73	69.06	37.03	-10.74	-8,083.10	3,208.09	6,689.07	6,587.99	101.08	66.177	
11,800.00	7,618.00	7,746.87	7,537.00	69.44	37.03	-10.91	-8,083.12	3,208.17	6,589.08	6,488.00	101.08	65.185	
11,900.00	7,618.00	7,748.14	7,538.28	69.88	37.04	-11.09	-8,083.14	3,208.26	6,489.10	6,388.01	101.09	64.194	
12,000.00	7,618.00	7,749.59	7,539.72	70.39	37.04	-11.29	-8,083.16	3,208.35	6,389.11	6,288.02	101.09	63.202	
12,100.00	7,618.00	7,751.36	7,541.49	70.97	37.05	-11.55	-8,083.19	3,208.46	6,289.12	6,188.03	101.10	62.210	
12,200.00	7,618.00	7,753.12	7,543.25	71.63	37.05	-11.82	-8,083.22	3,208.58	6,189.14	6,088.03	101.10	61.217	
12,300.00	7,618.00	7,754.88	7,545.00	72.35	37.06	-12.10	-8,083.24	3,208.69	6,089.15	5,988.04	101.11	60.225	
12,400.00	7,618.00	7,756.62	7,546.74	73.15	37.06	-12.38	-8,083.27	3,208.80	5,989.16	5,888.05	101.11	59.232	
12,500.00	7,618.00	7,758.36	7,548.47	74.01	37.07	-12.68	-8,083.30	3,208.91	5,889.17	5,788.05	101.12	58.239	
12,600.00	7,618.00	7,760.09	7,550.20	74.93	37.08	-12.98	-8,083.32	3,209.02	5,789.19	5,688.06	101.13	57.247	
12,700.00	7,618.00	7,761.81	7,551.92	75.91	37.08	-13.29	-8,083.35	3,209.13	5,689.20	5,588.07	101.13	56.254	
12,800.00	7,618.00	7,763.53	7,553.63	76.95	37.09	-13.61	-8,083.38	3,209.24	5,589.21	5,488.07	101.14	55.262	
12,900.00	7,618.00	7,765.23	7,555.33	78.04	37.09	-13.94	-8,083.40	3,209.35	5,489.22	5,388.08	101.15	54.270	
13,000.00	7,618.00	7,766.93	7,557.03	79.16	37.10	-14.29	-8,083.43	3,209.45	5,389.24	5,288.08	101.15	53.278	
13,100.00	7,618.00	7,768.62	7,558.71	80.33	37.10	-14.64	-8,083.45	3,209.56	5,289.25	5,188.09	101.16	52.285	
13,200.00	7,618.00	7,770.31	7,560.39	81.54	37.11	-15.01	-8,083.48	3,209.67	5,189.26	5,088.09	101.17	51.293	
13,300.00	7,618.00	7,771.99	7,562.07	82.78	37.11	-15.39	-8,083.51	3,209.77	5,089.27	4,988.10	101.18	50.302	
13,400.00	7,618.00	7,773.65	7,563.73	84.05	37.12	-15.78	-8,083.53	3,209.88	4,989.29	4,888.11	101.18	49.310	
13,500.00	7,618.00	7,775.32	7,565.39	85.35	37.12	-16.19	-8,083.56	3,209.98	4,889.30	4,788.11	101.19	48.318	
13,600.00	7,618.00	7,776.97	7,567.04	86.67	37.13	-16.61	-8,083.58	3,210.08	4,789.31	4,688.12	101.20	47.327	
13,700.00	7,618.00	7,778.62	7,568.69	88.02	37.14	-17.04	-8,083.61	3,210.18	4,689.33	4,588.12	101.20	46.336	
13,800.00	7,618.00	7,780.26	7,570.33	89.38	37.14	-17.50	-8,083.63	3,210.29	4,589.34	4,488.13	101.21	45.345	
13,900.00	7,618.00	7,781.89	7,571.96	90.77	37.15	-17.97	-8,083.66	3,210.39	4,489.35	4,388.13	101.22	44.354	
14,000.00	7,618.00	7,783.52	7,573.58	92.17	37.15	-18.45	-8,083.68	3,210.49	4,389.36	4,288.14	101.22	43.363	
14,100.00	7,618.00	7,785.14	7,575.20	93.59	37.16	-18.96	-8,083.70	3,210.59	4,289.38	4,188.15	101.23	42.373	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,618.00	7,786.75	7,576.81	95.02	37.16	-19.49	-8,083.73	3,210.69	4,189.39	4,088.15	101.24	41.382	
14,300.00	7,618.00	7,788.36	7,578.41	96.47	37.17	-20.04	-8,083.75	3,210.79	4,089.40	3,988.16	101.24	40.392	
14,400.00	7,618.00	7,789.96	7,580.00	97.93	37.17	-20.61	-8,083.78	3,210.88	3,989.41	3,888.17	101.25	39.403	
14,500.00	7,618.00	7,791.55	7,581.59	99.41	37.18	-21.20	-8,083.80	3,210.98	3,889.43	3,788.17	101.25	38.413	
14,600.00	7,618.00	7,793.13	7,583.17	100.89	37.18	-21.82	-8,083.82	3,211.08	3,789.44	3,688.18	101.26	37.424	
14,700.00	7,618.00	7,794.71	7,584.75	102.38	37.19	-22.47	-8,083.85	3,211.17	3,689.45	3,588.19	101.26	36.435	
14,800.00	7,618.00	7,796.28	7,586.32	103.89	37.19	-23.14	-8,083.87	3,211.27	3,589.47	3,488.20	101.27	35.446	
14,900.00	7,618.00	7,797.85	7,587.88	105.40	37.20	-23.85	-8,083.89	3,211.36	3,489.48	3,388.21	101.27	34.458	
15,000.00	7,618.00	7,799.41	7,589.43	106.92	37.20	-24.59	-8,083.92	3,211.46	3,389.49	3,288.22	101.27	33.470	
15,100.00	7,618.00	7,800.96	7,590.98	108.45	37.21	-25.36	-8,083.94	3,211.55	3,289.51	3,188.23	101.27	32.482	
15,200.00	7,618.00	7,802.50	7,592.52	109.99	37.21	-26.16	-8,083.96	3,211.65	3,189.52	3,088.25	101.27	31.494	
15,300.00	7,618.00	7,804.04	7,594.06	111.54	37.22	-27.01	-8,083.98	3,211.74	3,089.53	2,988.26	101.27	30.507	
15,400.00	7,618.00	7,805.57	7,595.59	113.09	37.22	-27.89	-8,084.01	3,211.83	2,989.55	2,888.28	101.27	29.520	
15,500.00	7,618.00	7,807.10	7,597.11	114.65	37.23	-28.82	-8,084.03	3,211.92	2,889.56	2,788.30	101.27	28.534	
15,600.00	7,618.00	7,808.62	7,598.63	116.21	37.23	-29.80	-8,084.05	3,212.01	2,789.58	2,688.31	101.26	27.548	
15,700.00	7,618.00	7,810.13	7,600.14	117.78	37.24	-30.82	-8,084.07	3,212.10	2,689.59	2,588.34	101.26	26.562	
15,800.00	7,618.00	7,811.64	7,601.64	119.36	37.24	-31.90	-8,084.09	3,212.19	2,589.61	2,488.36	101.25	25.577	
15,900.00	7,618.00	7,813.14	7,603.14	120.94	37.25	-33.03	-8,084.12	3,212.28	2,489.62	2,388.39	101.24	24.592	
16,000.00	7,618.00	7,814.63	7,604.63	122.53	37.25	-34.21	-8,084.14	3,212.37	2,389.64	2,288.41	101.22	23.608	
16,100.00	7,618.00	7,816.12	7,606.12	124.12	37.25	-35.47	-8,084.16	3,212.46	2,289.65	2,188.45	101.21	22.623	
16,200.00	7,618.00	7,817.60	7,607.60	125.72	37.26	-36.78	-8,084.18	3,212.55	2,189.67	2,088.48	101.19	21.640	
16,300.00	7,618.00	7,819.08	7,609.07	127.32	37.26	-38.17	-8,084.20	3,212.63	2,089.69	1,988.53	101.16	20.657	
16,400.00	7,618.00	7,820.55	7,610.54	128.93	37.27	-39.63	-8,084.22	3,212.72	1,989.71	1,888.57	101.13	19.674	
16,500.00	7,618.00	7,822.01	7,612.00	130.54	37.27	-41.17	-8,084.24	3,212.81	1,889.73	1,788.62	101.10	18.691	
16,600.00	7,618.00	7,823.47	7,613.45	132.15	37.28	-42.79	-8,084.26	3,212.89	1,789.75	1,688.69	101.06	17.710	
16,700.00	7,618.00	7,824.92	7,614.90	133.77	37.28	-44.49	-8,084.28	3,212.98	1,689.77	1,588.75	101.01	16.728	
16,800.00	7,618.00	7,826.37	7,616.34	135.39	37.29	-46.28	-8,084.30	3,213.06	1,589.79	1,488.83	100.96	15.747	
16,900.00	7,618.00	7,827.81	7,617.78	137.01	37.29	-48.17	-8,084.33	3,213.14	1,489.81	1,388.93	100.89	14.767	
17,000.00	7,618.00	7,829.24	7,619.21	138.64	37.30	-50.15	-8,084.35	3,213.23	1,389.84	1,289.03	100.81	13.787	
17,100.00	7,618.00	7,830.67	7,620.64	140.27	37.30	-52.23	-8,084.37	3,213.31	1,289.87	1,189.16	100.71	12.808	
17,200.00	7,618.00	7,832.09	7,622.06	141.91	37.31	-54.42	-8,084.39	3,213.39	1,189.90	1,089.31	100.59	11.829	
17,300.00	7,618.00	7,833.51	7,623.47	143.55	37.31	-56.70	-8,084.41	3,213.48	1,089.94	989.49	100.45	10.851	
17,400.00	7,618.00	7,834.92	7,624.88	145.19	37.31	-59.08	-8,084.43	3,213.56	989.98	889.71	100.27	9.873	
17,500.00	7,618.00	7,836.32	7,626.28	146.83	37.32	-61.55	-8,084.44	3,213.64	890.02	789.98	100.05	8.896	
17,600.00	7,618.00	7,837.72	7,627.68	148.48	37.32	-64.13	-8,084.46	3,213.72	790.08	690.32	99.77	7.919	
17,700.00	7,618.00	7,839.12	7,629.07	150.13	37.33	-66.79	-8,084.48	3,213.80	690.15	590.76	99.40	6.943	
17,800.00	7,618.00	7,840.51	7,630.46	151.78	37.33	-69.53	-8,084.50	3,213.88	590.25	491.35	98.90	5.968	
17,900.00	7,618.00	7,841.89	7,631.84	153.43	37.34	-72.34	-8,084.52	3,213.96	490.37	392.17	98.21	4.993	
18,000.00	7,618.00	7,843.27	7,633.21	155.09	37.34	-75.22	-8,084.54	3,214.04	390.56	293.38	97.18	4.019	
18,100.00	7,618.00	7,844.64	7,634.58	156.75	37.35	-78.14	-8,084.56	3,214.11	290.87	195.34	95.53	3.045	
18,200.00	7,618.00	7,846.01	7,635.95	158.41	37.35	-81.10	-8,084.58	3,214.19	191.49	98.87	92.62	2.067	
18,300.00	7,618.00	7,847.37	7,637.31	160.07	37.35	-84.08	-8,084.60	3,214.27	93.43	4.87	88.56	1.055	Level 2
18,389.96	7,618.00	7,848.59	7,638.53	161.57	37.36	-86.76	-8,084.61	3,214.34	26.06	-164.73	190.79	0.137	Level 1, CC, SF
18,400.00	7,618.00	7,848.72	7,638.66	161.74	37.36	-87.05	-8,084.62	3,214.35	28.01	-169.14	197.16	0.142	Level 1, ES
18,500.00	7,618.00	7,850.07	7,640.01	163.41	37.36	-90.02	-8,084.63	3,214.42	113.30	-13.96	127.26	0.890	Level 1
18,600.00	7,618.00	7,851.42	7,641.35	165.08	37.37	-92.96	-8,084.65	3,214.50	211.86	96.51	115.35	1.837	
18,700.00	7,618.00	7,852.76	7,642.69	166.75	37.37	-95.85	-8,084.67	3,214.57	311.34	200.11	111.23	2.799	
18,711.30	7,618.00	7,852.91	7,642.84	166.94	37.37	-96.17	-8,084.67	3,214.58	322.60	211.67	110.93	2.908	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	11.28	11.28	0.00	0.01	163.43	-7,164.01	2,132.00	7,474.53				
100.00	100.00	64.16	64.16	0.13	0.13	163.43	-7,164.18	2,132.28	7,474.99	7,474.73	0.27	N/A	
200.00	200.00	135.00	134.99	0.49	0.39	163.42	-7,164.70	2,133.42	7,476.09	7,475.21	0.88	8,519.072	
300.00	300.00	178.68	178.65	0.85	0.54	163.41	-7,165.16	2,134.52	7,477.71	7,476.32	1.39	5,364.498	
400.00	400.00	227.00	226.94	1.21	0.72	163.40	-7,165.78	2,136.01	7,479.91	7,477.98	1.93	3,882.564	
500.00	500.00	265.12	265.03	1.57	0.86	163.39	-7,166.46	2,137.59	7,482.88	7,480.46	2.42	3,086.801	
600.00	600.00	318.00	317.79	1.93	1.05	163.37	-7,167.83	2,140.75	7,486.86	7,483.89	2.97	2,516.956	
700.00	700.00	318.00	317.79	2.29	1.05	163.37	-7,167.83	2,140.75	7,491.59	7,488.26	3.33	2,247.696	
800.00	800.00	318.00	317.79	2.64	1.05	163.37	-7,167.83	2,140.75	7,497.65	7,493.96	3.69	2,031.107	
900.00	900.00	374.21	373.78	3.00	1.27	163.34	-7,170.12	2,145.10	7,504.17	7,499.92	4.26	1,763.066	
1,000.00	999.98	410.00	409.37	3.36	1.41	105.98	-7,172.16	2,148.29	7,512.50	7,507.76	4.74	1,584.443	
1,100.00	1,099.84	410.00	409.37	3.71	1.41	105.78	-7,172.16	2,148.29	7,522.75	7,517.66	5.09	1,477.265	
1,200.00	1,199.45	454.09	453.16	4.07	1.58	105.55	-7,175.31	2,152.37	7,534.82	7,529.21	5.61	1,342.308	
1,300.00	1,298.70	502.00	500.69	4.44	1.77	105.30	-7,179.49	2,156.69	7,548.87	7,542.71	6.16	1,226.378	
1,400.00	1,397.47	502.00	500.69	4.82	1.77	104.99	-7,179.49	2,156.69	7,564.61	7,558.08	6.53	1,158.690	
1,500.00	1,495.62	541.32	539.66	5.22	1.94	104.69	-7,183.52	2,160.12	7,582.18	7,575.11	7.07	1,072.869	
1,600.00	1,593.06	594.00	591.78	5.65	2.16	104.38	-7,189.74	2,164.54	7,601.67	7,593.99	7.68	990.153	
1,700.00	1,689.64	594.00	591.78	6.11	2.16	103.96	-7,189.74	2,164.54	7,622.66	7,614.54	8.11	939.496	
1,800.00	1,785.27	638.52	635.77	6.61	2.34	103.59	-7,195.66	2,167.98	7,645.39	7,636.64	8.75	873.720	
1,900.00	1,879.82	686.00	682.64	7.15	2.55	103.22	-7,202.53	2,171.18	7,669.73	7,660.29	9.43	813.015	
2,000.00	1,973.17	686.00	682.64	7.73	2.55	102.69	-7,202.53	2,171.18	7,695.69	7,685.71	9.98	771.467	
2,100.00	2,065.21	720.77	716.90	8.37	2.70	102.23	-7,208.09	2,173.25	7,723.25	7,712.55	10.69	722.254	
2,200.00	2,155.84	740.17	735.97	9.07	2.78	101.69	-7,211.45	2,174.32	7,752.54	7,741.14	11.40	680.178	
2,300.00	2,244.94	778.00	773.08	9.82	2.95	101.19	-7,218.55	2,176.24	7,783.57	7,771.35	12.22	636.755	
2,400.00	2,332.39	778.00	773.08	10.64	2.95	100.52	-7,218.55	2,176.24	7,815.99	7,803.04	12.95	603.452	
2,500.00	2,418.11	778.00	773.08	11.53	2.95	99.80	-7,218.55	2,176.24	7,850.15	7,836.42	13.73	571.706	
2,558.91	2,467.74	778.00	773.08	12.08	2.95	99.36	-7,218.55	2,176.24	7,871.05	7,856.84	14.21	553.786	
2,600.00	2,502.13	811.21	805.54	12.47	3.11	99.50	-7,225.37	2,177.74	7,885.60	7,870.91	14.69	536.789	
2,700.00	2,585.83	855.00	848.18	13.45	3.31	99.69	-7,235.21	2,179.48	7,922.40	7,906.69	15.72	504.122	
2,800.00	2,669.53	855.00	848.18	14.44	3.31	99.69	-7,235.21	2,179.48	7,959.72	7,943.15	16.57	480.317	
2,900.00	2,753.22	855.00	848.18	15.46	3.31	99.69	-7,235.21	2,179.48	7,998.12	7,980.69	17.43	458.796	
3,000.00	2,836.92	855.00	848.18	16.48	3.31	99.69	-7,235.21	2,179.48	8,037.57	8,019.28	18.30	439.321	
3,100.00	2,920.62	903.48	895.17	17.52	3.55	99.91	-7,246.99	2,181.37	8,077.55	8,058.18	19.37	417.068	
3,200.00	3,004.32	942.00	932.37	18.56	3.75	100.08	-7,256.85	2,183.06	8,118.61	8,098.21	20.40	398.042	
3,300.00	3,088.01	942.00	932.37	19.61	3.75	100.08	-7,256.85	2,183.06	8,160.35	8,139.10	21.26	383.913	
3,400.00	3,171.71	971.61	960.89	20.67	3.90	100.20	-7,264.68	2,184.49	8,202.95	8,180.70	22.25	368.642	
3,500.00	3,255.41	997.34	985.62	21.73	4.04	100.32	-7,271.62	2,185.86	8,246.31	8,223.09	23.22	355.176	
3,600.00	3,339.10	1,031.00	1,017.92	22.80	4.22	100.46	-7,280.90	2,187.84	8,290.42	8,266.21	24.22	342.351	
3,700.00	3,422.80	1,055.15	1,041.05	23.87	4.36	100.56	-7,287.67	2,189.38	8,335.23	8,310.07	25.17	331.167	
3,800.00	3,506.50	1,090.22	1,074.60	24.94	4.56	100.71	-7,297.61	2,191.74	8,380.70	8,354.53	26.17	320.209	
3,900.00	3,590.20	1,142.74	1,124.77	26.02	4.86	100.92	-7,312.71	2,195.52	8,426.78	8,399.52	27.26	309.125	
4,000.00	3,673.89	1,204.00	1,183.29	27.10	5.21	101.18	-7,330.31	2,199.63	8,473.12	8,444.73	28.39	298.468	
4,100.00	3,757.59	1,242.22	1,219.78	28.18	5.44	101.34	-7,341.42	2,202.09	8,519.99	8,490.59	29.40	289.821	
4,200.00	3,841.29	1,291.00	1,266.22	29.26	5.73	101.54	-7,356.00	2,205.30	8,567.62	8,537.17	30.46	281.309	
4,300.00	3,924.99	1,291.00	1,266.22	30.35	5.73	101.54	-7,356.00	2,205.30	8,615.78	8,584.53	31.26	275.647	
4,400.00	4,008.68	1,328.95	1,302.26	31.44	5.96	101.69	-7,367.61	2,207.89	8,664.63	8,632.38	32.25	268.679	
4,500.00	4,092.38	1,378.00	1,348.72	32.52	6.27	101.89	-7,382.92	2,211.42	8,714.14	8,680.84	33.30	261.714	
4,600.00	4,176.08	1,378.00	1,348.72	33.62	6.27	101.89	-7,382.92	2,211.42	8,764.19	8,730.12	34.07	257.225	
4,700.00	4,259.77	1,421.95	1,390.24	34.71	6.55	102.07	-7,396.90	2,214.84	8,814.82	8,779.74	35.08	251.256	
4,800.00	4,343.47	1,466.00	1,431.75	35.80	6.83	102.24	-7,411.17	2,218.61	8,866.09	8,830.00	36.09	245.663	
4,900.00	4,427.17	1,466.00	1,431.75	36.89	6.83	102.24	-7,411.17	2,218.61	8,917.93	8,881.09	36.84	242.064	
5,000.00	4,510.87	1,466.00	1,431.75	37.99	6.83	102.24	-7,411.17	2,218.61	8,970.58	8,933.00	37.58	238.697	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	1,510.72	1,473.71	39.08	7.13	102.42	-7,426.12	2,222.59	9,023.57	8,984.99	38.58	233.916	
5,200.00	4,678.26	1,553.00	1,513.16	40.18	7.42	102.58	-7,440.87	2,226.31	9,077.53	9,037.98	39.55	229.512	
5,300.00	4,761.96	1,553.00	1,513.16	41.28	7.42	102.58	-7,440.87	2,226.31	9,131.86	9,091.60	40.27	226.785	
5,400.00	4,845.66	1,553.00	1,513.16	42.37	7.42	102.58	-7,440.87	2,226.31	9,186.96	9,145.99	40.97	224.230	
5,500.00	4,929.35	1,584.06	1,542.02	43.47	7.64	102.70	-7,452.05	2,228.95	9,242.63	9,200.77	41.86	220.807	
5,600.00	5,013.05	1,604.24	1,560.72	44.57	7.78	102.78	-7,459.45	2,230.59	9,298.90	9,256.23	42.67	217.921	
5,700.00	5,096.75	1,640.00	1,593.77	45.67	8.03	102.92	-7,472.82	2,233.34	9,355.81	9,312.23	43.57	214.710	
5,800.00	5,180.45	1,640.00	1,593.77	46.77	8.03	102.92	-7,472.82	2,233.34	9,413.19	9,368.95	44.24	212.757	
5,900.00	5,264.14	1,673.72	1,624.85	47.87	8.27	103.05	-7,485.68	2,235.79	9,471.14	9,426.01	45.12	209.906	
6,000.00	5,347.84	1,701.60	1,650.50	48.97	8.48	103.16	-7,496.43	2,237.74	9,529.58	9,483.62	45.95	207.372	
6,100.00	5,431.54	1,728.00	1,674.74	50.07	8.67	103.27	-7,506.72	2,239.50	9,588.51	9,541.74	46.77	205.010	
6,200.00	5,515.23	2,463.32	2,359.33	51.17	13.85	106.04	-7,769.69	2,287.83	9,643.75	9,591.60	52.15	184.938	
6,300.00	5,598.93	2,652.59	2,538.16	52.27	15.11	106.73	-7,830.97	2,297.03	9,698.20	9,644.22	53.99	179.645	
6,400.00	5,682.63	2,688.00	2,571.72	53.38	15.34	106.86	-7,842.20	2,298.39	9,752.21	9,697.33	54.88	177.697	
6,500.00	5,766.33	2,728.88	2,610.41	54.48	15.61	107.01	-7,855.28	2,300.16	9,806.65	9,750.84	55.81	175.723	
6,600.00	5,850.02	2,775.00	2,653.91	55.58	15.91	107.17	-7,870.35	2,302.91	9,861.68	9,804.92	56.76	173.735	
6,700.00	5,933.72	2,800.54	2,677.96	56.68	16.09	107.26	-7,878.77	2,304.68	9,917.11	9,859.52	57.59	172.213	
6,800.00	6,017.42	2,880.59	2,753.32	57.79	16.63	107.53	-7,905.11	2,310.53	9,972.76	9,914.00	58.76	169.726	
9,200.00	7,618.00	7,926.00	7,646.41	71.80	39.60	90.48	-8,783.59	2,426.71	9,920.47	9,824.55	95.92	103.425	
9,300.00	7,618.00	7,926.00	7,646.41	71.41	39.60	90.48	-8,783.59	2,426.71	9,820.76	9,724.77	95.99	102.312	
9,400.00	7,618.00	7,926.00	7,646.41	71.04	39.60	90.48	-8,783.59	2,426.71	9,721.06	9,625.00	96.06	101.198	
9,500.00	7,618.00	7,926.00	7,646.41	70.68	39.60	90.48	-8,783.59	2,426.71	9,621.37	9,525.24	96.13	100.084	
9,600.00	7,618.00	7,926.00	7,646.41	70.35	39.60	90.48	-8,783.59	2,426.71	9,521.69	9,425.48	96.21	98.970	
9,700.00	7,618.00	7,926.00	7,646.41	70.04	39.60	90.48	-8,783.59	2,426.71	9,422.01	9,325.72	96.29	97.855	
9,800.00	7,618.00	7,926.00	7,646.41	69.75	39.60	90.48	-8,783.59	2,426.71	9,322.34	9,225.97	96.37	96.740	
9,900.00	7,618.00	7,926.00	7,646.41	69.47	39.60	90.48	-8,783.59	2,426.71	9,222.67	9,126.23	96.45	95.624	
10,000.00	7,618.00	7,926.00	7,646.41	69.22	39.60	90.48	-8,783.59	2,426.71	9,123.02	9,026.49	96.53	94.508	
10,100.00	7,618.00	7,926.00	7,646.41	68.99	39.60	90.48	-8,783.59	2,426.71	9,023.37	8,926.75	96.62	93.391	
10,200.00	7,618.00	7,926.00	7,646.41	68.78	39.60	90.48	-8,783.59	2,426.71	8,923.73	8,827.02	96.71	92.275	
10,300.00	7,618.00	7,926.00	7,646.41	68.59	39.60	90.48	-8,783.59	2,426.71	8,824.09	8,727.29	96.80	91.157	
10,400.00	7,618.00	7,926.00	7,646.41	68.42	39.60	90.48	-8,783.59	2,426.71	8,724.47	8,627.57	96.90	90.040	
10,500.00	7,618.00	7,926.00	7,646.41	68.28	39.60	90.48	-8,783.59	2,426.71	8,624.85	8,527.86	96.99	88.922	
10,600.00	7,618.00	7,926.00	7,646.41	68.16	39.60	90.48	-8,783.59	2,426.71	8,525.25	8,428.15	97.09	87.804	
10,700.00	7,618.00	7,926.00	7,646.41	68.06	39.60	90.48	-8,783.59	2,426.71	8,425.65	8,328.45	97.20	86.686	
10,800.00	7,618.00	7,926.00	7,646.41	67.99	39.60	90.48	-8,783.59	2,426.71	8,326.06	8,228.75	97.30	85.567	
10,900.00	7,618.00	7,926.00	7,646.41	67.95	39.60	90.48	-8,783.59	2,426.71	8,226.48	8,129.07	97.41	84.448	
11,000.00	7,618.00	7,926.00	7,646.41	67.95	39.60	90.48	-8,783.59	2,426.71	8,126.91	8,029.39	97.53	83.329	
11,100.00	7,618.00	7,926.00	7,646.41	67.97	39.60	90.48	-8,783.59	2,426.71	8,027.36	7,929.71	97.64	82.210	
11,200.00	7,618.00	7,926.00	7,646.41	68.04	39.60	90.48	-8,783.59	2,426.71	7,927.81	7,830.04	97.76	81.091	
11,300.00	7,618.00	7,926.00	7,646.41	68.15	39.60	90.48	-8,783.59	2,426.71	7,828.28	7,730.39	97.89	79.971	
11,400.00	7,618.00	7,926.00	7,646.41	68.30	39.60	90.48	-8,783.59	2,426.71	7,728.75	7,630.74	98.02	78.851	
11,500.00	7,618.00	7,926.00	7,646.41	68.50	39.60	90.48	-8,783.59	2,426.71	7,629.24	7,531.09	98.15	77.732	
11,600.00	7,618.00	7,926.00	7,646.41	68.75	39.60	90.48	-8,783.59	2,426.71	7,529.75	7,431.46	98.28	76.612	
11,700.00	7,618.00	7,926.00	7,646.41	69.06	39.60	90.48	-8,783.59	2,426.71	7,430.26	7,331.84	98.42	75.492	
11,800.00	7,618.00	7,926.00	7,646.41	69.44	39.60	90.48	-8,783.59	2,426.71	7,330.79	7,232.22	98.57	74.372	
11,900.00	7,618.00	7,926.00	7,646.41	69.88	39.60	90.48	-8,783.59	2,426.71	7,231.34	7,132.62	98.72	73.252	
12,000.00	7,618.00	7,926.00	7,646.41	70.39	39.60	90.48	-8,783.59	2,426.71	7,131.90	7,033.03	98.87	72.132	
12,100.00	7,618.00	7,926.00	7,646.41	70.97	39.60	90.48	-8,783.59	2,426.71	7,032.48	6,933.44	99.03	71.012	
12,200.00	7,618.00	7,926.00	7,646.41	71.63	39.60	90.48	-8,783.59	2,426.71	6,933.07	6,833.87	99.20	69.893	
12,300.00	7,618.00	7,926.00	7,646.41	72.35	39.60	90.48	-8,783.59	2,426.71	6,833.68	6,734.31	99.37	68.773	
12,400.00	7,618.00	7,926.00	7,646.41	73.15	39.60	90.48	-8,783.59	2,426.71	6,734.31	6,634.77	99.54	67.653	
12,500.00	7,618.00	7,926.00	7,646.41	74.01	39.60	90.48	-8,783.59	2,426.71	6,634.95	6,535.23	99.72	66.534	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,600.00	7,618.00	7,926.00	7,646.41	74.93	39.60	90.48	-8,783.59	2,426.71	6,535.62	6,435.71	99.91	65.415	
12,700.00	7,618.00	7,926.00	7,646.41	75.91	39.60	90.48	-8,783.59	2,426.71	6,436.31	6,336.20	100.10	64.296	
12,800.00	7,618.00	7,926.00	7,646.41	76.95	39.60	90.48	-8,783.59	2,426.71	6,337.02	6,236.71	100.31	63.177	
12,900.00	7,618.00	7,926.00	7,646.41	78.04	39.60	90.48	-8,783.59	2,426.71	6,237.75	6,137.24	100.51	62.059	
13,000.00	7,618.00	7,926.00	7,646.41	79.16	39.60	90.48	-8,783.59	2,426.71	6,138.50	6,037.78	100.73	60.940	
13,100.00	7,618.00	7,926.00	7,646.41	80.33	39.60	90.48	-8,783.59	2,426.71	6,039.29	5,938.33	100.95	59.823	
13,200.00	7,618.00	7,926.00	7,646.41	81.54	39.60	90.48	-8,783.59	2,426.71	5,940.09	5,838.91	101.19	58.705	
13,300.00	7,618.00	7,926.00	7,646.41	82.78	39.60	90.48	-8,783.59	2,426.71	5,840.93	5,739.50	101.43	57.588	
13,400.00	7,618.00	7,926.00	7,646.41	84.05	39.60	90.48	-8,783.59	2,426.71	5,741.79	5,640.11	101.68	56.472	
13,500.00	7,618.00	7,926.00	7,646.41	85.35	39.60	90.48	-8,783.59	2,426.71	5,642.68	5,540.75	101.94	55.356	
13,600.00	7,618.00	7,926.00	7,646.41	86.67	39.60	90.48	-8,783.59	2,426.71	5,543.61	5,441.40	102.20	54.240	
13,700.00	7,618.00	7,926.00	7,646.41	88.02	39.60	90.48	-8,783.59	2,426.71	5,444.57	5,342.08	102.49	53.125	
13,800.00	7,618.00	7,926.00	7,646.41	89.38	39.60	90.48	-8,783.59	2,426.71	5,345.56	5,242.79	102.78	52.011	
13,900.00	7,618.00	7,926.00	7,646.41	90.77	39.60	90.48	-8,783.59	2,426.71	5,246.60	5,143.52	103.08	50.898	
14,000.00	7,618.00	7,926.00	7,646.41	92.17	39.60	90.48	-8,783.59	2,426.71	5,147.67	5,044.27	103.40	49.785	
14,100.00	7,618.00	7,926.00	7,646.41	93.59	39.60	90.48	-8,783.59	2,426.71	5,048.79	4,945.06	103.73	48.673	
14,200.00	7,618.00	7,926.00	7,646.41	95.02	39.60	90.48	-8,783.59	2,426.71	4,949.95	4,845.87	104.07	47.562	
14,300.00	7,618.00	7,926.00	7,646.41	96.47	39.60	90.48	-8,783.59	2,426.71	4,851.15	4,746.72	104.43	46.452	
14,400.00	7,618.00	7,926.00	7,646.41	97.93	39.60	90.48	-8,783.59	2,426.71	4,752.41	4,647.60	104.81	45.343	
14,500.00	7,618.00	7,926.00	7,646.41	99.41	39.60	90.48	-8,783.59	2,426.71	4,653.72	4,548.52	105.20	44.236	
14,600.00	7,618.00	7,923.70	7,644.11	100.89	39.60	90.31	-8,783.59	2,426.69	4,555.09	4,449.49	105.60	43.134	
14,700.00	7,618.00	7,923.79	7,644.20	102.38	39.60	90.32	-8,783.59	2,426.69	4,456.52	4,350.48	106.04	42.028	
14,800.00	7,618.00	7,923.88	7,644.30	103.89	39.60	90.32	-8,783.59	2,426.69	4,358.02	4,251.53	106.49	40.924	
14,900.00	7,618.00	7,923.98	7,644.39	105.40	39.60	90.33	-8,783.59	2,426.69	4,259.58	4,152.61	106.97	39.822	
15,000.00	7,618.00	7,924.07	7,644.48	106.92	39.60	90.34	-8,783.59	2,426.69	4,161.22	4,053.75	107.47	38.721	
15,100.00	7,618.00	7,924.16	7,644.57	108.45	39.60	90.35	-8,783.59	2,426.69	4,062.94	3,954.95	107.99	37.622	
15,200.00	7,618.00	7,924.26	7,644.67	109.99	39.60	90.35	-8,783.59	2,426.69	3,964.75	3,856.20	108.55	36.525	
15,300.00	7,618.00	7,924.35	7,644.77	111.54	39.60	90.36	-8,783.59	2,426.69	3,866.64	3,757.51	109.14	35.430	
15,400.00	7,618.00	7,924.45	7,644.86	113.09	39.60	90.37	-8,783.59	2,426.70	3,768.64	3,658.89	109.75	34.337	
15,500.00	7,618.00	7,924.55	7,644.96	114.65	39.60	90.37	-8,783.59	2,426.70	3,670.75	3,560.34	110.41	33.247	
15,600.00	7,618.00	7,924.65	7,645.06	116.21	39.60	90.38	-8,783.59	2,426.70	3,572.97	3,461.87	111.10	32.159	
15,700.00	7,618.00	7,924.75	7,645.16	117.78	39.60	90.39	-8,783.59	2,426.70	3,475.32	3,363.48	111.84	31.075	
15,800.00	7,618.00	7,924.85	7,645.26	119.36	39.60	90.40	-8,783.59	2,426.70	3,377.81	3,265.19	112.62	29.993	
15,900.00	7,618.00	7,924.96	7,645.37	120.94	39.60	90.40	-8,783.59	2,426.70	3,280.44	3,166.99	113.45	28.916	
16,000.00	7,618.00	7,925.06	7,645.47	122.53	39.60	90.41	-8,783.59	2,426.70	3,183.24	3,068.91	114.33	27.842	
16,100.00	7,618.00	7,925.17	7,645.58	124.12	39.60	90.42	-8,783.59	2,426.70	3,086.22	2,970.94	115.28	26.772	
16,200.00	7,618.00	7,925.27	7,645.68	125.72	39.60	90.43	-8,783.59	2,426.71	2,989.39	2,873.11	116.29	25.707	
16,300.00	7,618.00	7,925.38	7,645.79	127.32	39.60	90.44	-8,783.59	2,426.71	2,892.79	2,775.42	117.37	24.647	
16,400.00	7,618.00	7,925.49	7,645.90	128.93	39.60	90.45	-8,783.59	2,426.71	2,796.41	2,677.89	118.53	23.593	
16,500.00	7,618.00	7,925.60	7,646.01	130.54	39.60	90.45	-8,783.59	2,426.71	2,700.31	2,580.53	119.78	22.545	
16,600.00	7,618.00	7,925.71	7,646.12	132.15	39.60	90.46	-8,783.59	2,426.71	2,604.49	2,483.37	121.12	21.503	
16,700.00	7,618.00	7,925.83	7,646.24	133.77	39.60	90.47	-8,783.59	2,426.71	2,509.01	2,386.44	122.57	20.470	
16,800.00	7,618.00	7,925.94	7,646.35	135.39	39.60	90.48	-8,783.59	2,426.71	2,413.88	2,289.75	124.14	19.445	
16,900.00	7,618.00	7,926.07	7,646.48	137.01	39.60	90.49	-8,783.59	2,426.71	2,319.17	2,193.33	125.84	18.429	
17,000.00	7,618.00	7,926.21	7,646.62	138.64	39.60	90.50	-8,783.59	2,426.72	2,224.93	2,097.23	127.69	17.424	
17,100.00	7,618.00	7,926.34	7,646.75	140.27	39.60	90.51	-8,783.59	2,426.72	2,131.20	2,001.50	129.71	16.431	
17,200.00	7,618.00	7,926.48	7,646.89	141.91	39.60	90.52	-8,783.59	2,426.72	2,038.07	1,906.17	131.91	15.451	
17,300.00	7,618.00	7,926.62	7,647.03	143.55	39.60	90.53	-8,783.59	2,426.72	1,945.63	1,811.32	134.31	14.486	
17,400.00	7,618.00	7,926.76	7,647.17	145.19	39.60	90.54	-8,783.59	2,426.72	1,853.97	1,717.02	136.95	13.537	
17,500.00	7,618.00	7,926.90	7,647.31	146.83	39.61	90.55	-8,783.59	2,426.72	1,763.21	1,623.36	139.85	12.608	
17,600.00	7,618.00	7,927.04	7,647.45	148.48	39.61	90.56	-8,783.59	2,426.73	1,673.51	1,530.47	143.05	11.699	
17,700.00	7,618.00	7,927.19	7,647.60	150.13	39.61	90.57	-8,783.59	2,426.73	1,585.05	1,438.48	146.57	10.814	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,800.00	7,618.00	7,927.33	7,647.74	151.78	39.61	90.58	-8,783.59	2,426.73	1,498.03	1,347.58	150.45	9.957	
17,900.00	7,618.00	7,927.48	7,647.89	153.43	39.61	90.60	-8,783.59	2,426.73	1,412.74	1,258.01	154.73	9.130	
18,000.00	7,618.00	7,927.62	7,648.03	155.09	39.61	90.61	-8,783.59	2,426.73	1,329.49	1,170.05	159.45	8.338	
18,100.00	7,618.00	7,927.77	7,648.18	156.75	39.61	90.62	-8,783.59	2,426.74	1,248.71	1,084.09	164.62	7.585	
18,200.00	7,618.00	7,927.92	7,648.33	158.41	39.61	90.63	-8,783.59	2,426.74	1,170.90	1,000.64	170.26	6.877	
18,300.00	7,618.00	7,928.07	7,648.48	160.07	39.61	90.64	-8,783.59	2,426.74	1,096.69	920.36	176.33	6.219	
18,400.00	7,618.00	7,928.22	7,648.63	161.74	39.61	90.65	-8,783.59	2,426.74	1,026.87	844.10	182.76	5.619	
18,500.00	7,618.00	7,928.37	7,648.78	163.41	39.61	90.66	-8,783.59	2,426.74	962.38	773.00	189.39	5.082	
18,600.00	7,618.00	7,928.52	7,648.93	165.08	39.61	90.67	-8,783.59	2,426.75	904.38	708.47	195.91	4.616	
18,700.00	7,618.00	7,928.67	7,649.08	166.75	39.61	90.69	-8,783.59	2,426.75	854.19	652.28	201.91	4.231	
18,711.30	7,618.00	7,928.69	7,649.10	166.94	39.61	90.69	-8,783.59	2,426.75	849.07	646.54	202.53	4.192	CC, ES, SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	163.28	-7,118.83	2,137.87	7,432.95				
100.00	100.00	43.14	43.14	0.13	0.08	163.28	-7,118.94	2,138.30	7,433.56	7,433.36	0.20	N/A	
200.00	200.00	74.00	73.98	0.49	0.14	163.28	-7,119.16	2,139.12	7,435.06	7,434.46	0.61	N/A	
300.00	300.00	118.13	118.08	0.85	0.29	163.26	-7,119.71	2,140.76	7,437.39	7,436.26	1.12	6,611.138	
400.00	400.00	166.00	165.89	1.21	0.45	163.25	-7,120.69	2,142.89	7,440.55	7,438.90	1.66	4,489.993	
500.00	500.00	218.78	218.59	1.57	0.65	163.23	-7,122.00	2,145.69	7,444.39	7,442.18	2.21	3,369.010	
600.00	600.00	301.69	301.28	1.93	0.96	163.20	-7,124.03	2,151.16	7,448.64	7,445.76	2.87	2,591.674	
700.00	700.00	349.00	348.43	2.29	1.14	163.17	-7,125.01	2,154.94	7,453.13	7,449.72	3.41	2,186.871	
800.00	800.00	407.71	406.89	2.64	1.37	163.14	-7,126.44	2,160.19	7,458.21	7,454.22	3.99	1,869.729	
900.00	900.00	440.00	439.02	3.00	1.49	163.12	-7,127.49	2,163.29	7,464.19	7,459.72	4.47	1,670.350	
1,000.00	999.98	474.50	473.30	3.36	1.64	105.76	-7,128.83	2,166.92	7,471.54	7,466.58	4.96	1,507.202	
1,100.00	1,099.84	533.00	531.28	3.71	1.88	105.56	-7,131.65	2,174.17	7,480.95	7,475.41	5.54	1,350.761	
1,200.00	1,199.45	536.60	534.83	4.07	1.89	105.35	-7,131.84	2,174.66	7,491.86	7,485.95	5.91	1,268.011	
1,300.00	1,298.70	628.77	625.86	4.44	2.29	105.10	-7,136.49	2,188.38	7,504.34	7,497.69	6.65	1,128.257	
1,400.00	1,397.47	674.40	670.78	4.82	2.50	104.84	-7,138.71	2,196.06	7,518.13	7,510.91	7.22	1,040.576	
1,500.00	1,495.62	724.99	720.45	5.22	2.73	104.55	-7,141.29	2,205.34	7,533.49	7,525.65	7.84	961.070	
1,600.00	1,593.06	805.00	798.57	5.65	3.12	104.24	-7,145.03	2,222.16	7,550.12	7,541.50	8.62	875.526	
1,700.00	1,689.64	836.66	829.34	6.11	3.29	103.89	-7,146.47	2,229.50	7,568.16	7,558.94	9.22	820.712	
1,800.00	1,785.27	893.00	883.90	6.61	3.59	103.54	-7,149.56	2,243.18	7,588.02	7,578.04	9.97	760.724	
1,900.00	1,879.82	893.00	883.90	7.15	3.59	103.11	-7,149.56	2,243.18	7,609.29	7,598.80	10.48	725.815	
2,000.00	1,973.17	951.11	939.88	7.73	3.91	102.71	-7,153.11	2,258.37	7,632.14	7,620.79	11.34	672.846	
2,100.00	2,065.21	980.00	967.57	8.37	4.08	102.25	-7,154.88	2,266.41	7,656.42	7,644.33	12.09	633.165	
2,200.00	2,155.84	1,031.00	1,016.18	9.07	4.38	101.79	-7,158.14	2,281.48	7,682.11	7,669.08	13.03	589.759	
2,300.00	2,244.94	1,066.19	1,049.55	9.82	4.61	101.29	-7,160.56	2,292.39	7,709.29	7,695.36	13.93	553.471	
2,400.00	2,332.39	1,126.53	1,106.62	10.64	4.99	100.80	-7,165.04	2,311.48	7,737.82	7,722.78	15.04	514.417	
2,500.00	2,418.11	1,183.00	1,160.11	11.53	5.36	100.31	-7,169.29	2,329.07	7,767.17	7,750.98	16.19	479.700	
2,558.91	2,467.74	1,218.93	1,194.10	12.08	5.60	100.01	-7,172.09	2,340.35	7,784.96	7,768.04	16.92	460.149	
2,600.00	2,502.13	1,231.61	1,206.06	12.47	5.68	100.04	-7,173.13	2,344.42	7,797.64	7,780.29	17.35	449.325	
2,700.00	2,585.83	1,270.00	1,242.17	13.45	5.94	100.12	-7,176.43	2,357.07	7,829.08	7,810.61	18.48	423.724	
2,800.00	2,669.53	1,485.23	1,443.86	14.44	7.46	100.55	-7,193.49	2,430.23	7,860.68	7,839.84	20.84	377.148	
2,900.00	2,753.22	1,564.82	1,518.31	15.46	8.03	100.70	-7,198.68	2,457.87	7,891.01	7,868.70	22.31	353.665	
3,000.00	2,836.92	1,619.00	1,568.88	16.48	8.43	100.80	-7,202.48	2,476.95	7,921.92	7,898.31	23.62	335.454	
3,100.00	2,920.62	1,713.85	1,657.18	17.52	9.13	100.97	-7,209.17	2,510.93	7,953.16	7,927.93	25.23	315.174	
3,200.00	3,004.32	1,791.07	1,728.97	18.56	9.72	101.11	-7,214.53	2,538.84	7,984.43	7,957.69	26.74	298.617	
3,300.00	3,088.01	1,886.32	1,817.50	19.61	10.44	101.27	-7,221.17	2,573.35	8,015.82	7,987.43	28.39	282.371	
3,400.00	3,171.71	1,966.56	1,892.01	20.67	11.05	101.41	-7,226.75	2,602.63	8,047.33	8,017.39	29.93	268.836	
3,500.00	3,255.41	2,015.90	1,937.77	21.73	11.43	101.49	-7,230.32	2,620.73	8,079.20	8,047.95	31.25	258.568	
3,600.00	3,339.10	2,072.74	1,990.44	22.80	11.87	101.59	-7,234.75	2,641.61	8,111.61	8,078.99	32.62	248.692	
3,700.00	3,422.80	2,167.34	2,078.19	23.87	12.60	101.75	-7,242.32	2,676.14	8,144.23	8,109.94	34.29	237.538	
3,800.00	3,506.50	2,230.00	2,136.46	24.94	13.09	101.86	-7,247.44	2,698.61	8,176.94	8,141.24	35.70	229.044	
3,900.00	3,590.20	2,285.04	2,187.67	26.02	13.51	101.95	-7,252.21	2,718.20	8,210.10	8,173.05	37.05	221.590	
4,000.00	3,673.89	2,413.98	2,307.46	27.10	14.50	102.18	-7,263.87	2,764.49	8,243.79	8,204.80	38.99	211.420	
4,100.00	3,757.59	2,495.20	2,382.81	28.18	15.13	102.31	-7,270.79	2,794.00	8,277.05	8,236.49	40.57	204.044	
4,200.00	3,841.29	2,531.22	2,416.24	29.26	15.41	102.37	-7,274.02	2,807.01	8,310.71	8,268.94	41.76	198.987	
4,300.00	3,924.99	2,579.00	2,460.68	30.35	15.78	102.46	-7,278.74	2,823.91	8,345.03	8,301.97	43.06	193.817	
4,400.00	4,008.68	2,694.16	2,567.84	31.44	16.66	102.66	-7,290.14	2,864.50	8,379.44	8,334.56	44.89	186.680	
4,500.00	4,092.38	2,754.94	2,624.32	32.52	17.13	102.76	-7,296.12	2,886.16	8,413.96	8,367.68	46.28	181.799	
4,600.00	4,176.08	2,866.39	2,727.57	33.62	18.01	102.94	-7,306.87	2,926.71	8,448.52	8,400.42	48.11	175.613	
4,700.00	4,259.77	2,967.02	2,820.63	34.71	18.80	103.10	-7,316.42	2,963.78	8,483.13	8,433.28	49.85	170.168	
4,800.00	4,343.47	3,110.77	2,954.23	35.80	19.92	103.34	-7,329.77	3,015.14	8,517.32	8,465.38	51.94	163.974	
4,900.00	4,427.17	3,174.13	3,012.82	36.89	20.43	103.44	-7,335.41	3,038.58	8,551.50	8,498.12	53.38	160.196	
5,000.00	4,510.87	3,290.38	3,120.40	37.99	21.35	103.62	-7,345.79	3,081.38	8,585.73	8,530.47	55.27	155.345	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	3,351.18	3,176.72	39.08	21.83	103.71	-7,351.27	3,103.63	8,620.05	8,563.37	56.68	152.089	
5,200.00	4,678.26	3,400.95	3,222.68	40.18	22.23	103.78	-7,355.88	3,122.15	8,654.78	8,596.79	57.99	149.244	
5,300.00	4,761.96	3,452.00	3,269.86	41.28	22.64	103.86	-7,360.94	3,140.98	8,690.04	8,630.72	59.31	146.514	
5,400.00	4,845.66	3,496.85	3,311.34	42.37	22.99	103.93	-7,365.65	3,157.37	8,725.79	8,665.22	60.57	144.065	
5,500.00	4,929.35	5,500.00	3,501.47	43.47	39.15	104.24	-7,386.42	3,233.23	8,761.47	8,684.74	76.72	114.196	
5,600.00	5,013.05	3,774.60	3,567.84	44.57	25.23	104.34	-7,392.91	3,260.34	8,796.28	8,731.51	64.77	135.807	
5,700.00	5,096.75	3,802.00	3,593.04	45.67	25.45	104.38	-7,395.49	3,270.78	8,831.67	8,765.79	65.88	134.057	
5,800.00	5,180.45	3,840.02	3,628.00	46.77	25.77	104.43	-7,399.33	3,285.22	8,867.69	8,800.61	67.08	132.200	
5,900.00	5,264.14	5,160.16	4,893.11	47.87	33.78	107.10	-7,479.28	3,636.74	8,897.28	8,820.28	77.00	115.550	
6,000.00	5,347.84	5,314.26	5,045.96	48.97	34.34	107.52	-7,481.79	3,656.01	8,920.97	8,842.37	78.60	113.495	
6,100.00	5,431.54	5,380.04	5,111.42	50.07	34.56	107.72	-7,483.06	3,662.41	8,944.65	8,864.83	79.82	112.063	
6,200.00	5,515.23	6,200.00	5,231.09	51.17	36.74	108.08	-7,486.18	3,670.59	8,968.71	8,885.73	82.98	108.088	
6,300.00	5,598.93	5,762.03	5,492.94	52.27	35.49	108.95	-7,491.07	3,676.38	8,991.30	8,908.48	82.82	108.566	
6,400.00	5,682.63	5,862.47	5,593.37	53.38	35.70	109.29	-7,492.32	3,677.01	9,013.76	8,929.74	84.02	107.278	
6,500.00	5,766.33	5,996.70	5,727.59	54.48	35.97	109.73	-7,493.56	3,677.65	9,036.23	8,950.93	85.30	105.935	
6,600.00	5,850.02	6,115.85	5,846.74	55.58	36.20	110.13	-7,494.02	3,677.92	9,058.45	8,971.92	86.53	104.681	
6,700.00	5,933.72	6,203.23	5,934.12	56.68	36.37	110.42	-7,494.27	3,677.74	9,080.85	8,993.16	87.69	103.559	
6,800.00	6,017.42	6,369.47	6,100.35	57.79	36.69	110.98	-7,494.22	3,676.91	9,103.30	9,014.29	89.00	102.280	
6,900.00	6,101.12	6,502.27	6,233.14	58.89	36.95	111.42	-7,492.90	3,676.53	9,125.14	9,034.88	90.25	101.109	
7,000.00	6,184.81	6,606.23	6,337.10	59.99	37.16	111.76	-7,491.57	3,676.25	9,147.04	9,055.60	91.44	100.038	
7,100.00	6,268.51	6,718.11	6,448.96	61.10	37.39	112.12	-7,489.80	3,676.15	9,168.99	9,076.35	92.64	98.975	
7,200.00	6,352.21	6,840.17	6,571.00	62.20	37.64	112.51	-7,487.41	3,676.36	9,190.92	9,097.05	93.87	97.915	
7,300.00	6,435.90	6,971.02	6,701.81	63.31	37.92	112.93	-7,484.21	3,676.74	9,212.71	9,117.60	95.11	96.863	
7,400.00	6,519.60	7,034.82	6,765.59	64.41	38.07	113.13	-7,482.60	3,677.16	9,234.70	9,138.49	96.21	95.986	
7,500.00	6,603.30	7,110.46	6,841.20	65.51	38.24	113.37	-7,480.70	3,677.94	9,257.01	9,159.69	97.33	95.113	
7,600.00	6,687.00	7,194.93	6,925.64	66.62	38.43	113.63	-7,478.60	3,679.07	9,279.62	9,181.16	98.47	94.240	
7,700.00	6,770.69	7,280.63	7,011.30	67.72	38.64	113.89	-7,476.45	3,680.34	9,302.47	9,202.86	99.61	93.390	
7,800.00	6,854.39	7,341.53	7,072.17	68.83	38.78	114.08	-7,474.98	3,681.34	9,325.65	9,224.97	100.69	92.621	
7,900.00	6,938.09	7,397.85	7,128.48	69.93	38.92	114.25	-7,473.78	3,682.39	9,349.33	9,247.58	101.75	91.889	
7,933.18	6,965.86	7,416.55	7,147.17	70.30	38.97	114.31	-7,473.41	3,682.77	9,357.29	9,255.20	102.10	91.652	
7,950.00	6,980.00	7,426.07	7,156.68	70.49	38.99	112.05	-7,473.24	3,682.97	9,361.11	9,258.84	102.27	91.530	
8,000.00	7,022.68	7,468.00	7,198.60	71.01	39.10	104.66	-7,472.51	3,683.89	9,369.71	9,266.87	102.84	91.110	
8,050.00	7,066.06	7,468.00	7,198.60	71.51	39.10	96.25	-7,472.51	3,683.89	9,374.11	9,270.83	103.29	90.758	
8,100.00	7,109.82	7,514.26	7,244.83	71.97	39.22	87.39	-7,471.81	3,684.98	9,374.27	9,270.41	103.86	90.258	
8,150.00	7,153.63	7,544.30	7,274.86	72.38	39.30	78.38	-7,471.41	3,685.75	9,370.22	9,265.85	104.37	89.776	
8,200.00	7,197.14	7,574.16	7,304.71	72.74	39.37	69.78	-7,471.05	3,686.54	9,361.98	9,257.11	104.87	89.276	
8,250.00	7,240.04	7,603.61	7,334.15	73.05	39.45	61.96	-7,470.74	3,687.37	9,349.59	9,244.26	105.33	88.763	
8,300.00	7,281.99	7,643.00	7,373.52	73.31	39.56	55.14	-7,470.39	3,688.53	9,333.16	9,227.36	105.80	88.212	
8,350.00	7,322.67	7,661.13	7,391.64	73.52	39.60	49.24	-7,470.26	3,689.08	9,312.77	9,206.59	106.18	87.705	
8,400.00	7,361.77	7,689.12	7,419.62	73.68	39.68	44.28	-7,470.08	3,689.93	9,288.59	9,182.02	106.56	87.165	
8,450.00	7,399.01	7,715.79	7,446.28	73.78	39.75	40.10	-7,469.94	3,690.73	9,260.77	9,153.86	106.91	86.624	
8,500.00	7,434.08	7,740.95	7,471.42	73.85	39.82	36.57	-7,469.83	3,691.49	9,229.52	9,122.30	107.22	86.082	
8,550.00	7,466.74	7,764.39	7,494.85	73.87	39.88	33.54	-7,469.76	3,692.19	9,195.05	9,087.56	107.49	85.542	
8,600.00	7,496.72	7,785.95	7,516.40	73.85	39.94	30.89	-7,469.72	3,692.83	9,157.62	9,049.89	107.73	85.006	
8,650.00	7,523.80	7,817.00	7,547.44	73.79	40.03	28.56	-7,469.70	3,693.76	9,117.51	9,009.54	107.97	84.447	
8,700.00	7,547.77	7,828.13	7,558.57	73.70	40.06	26.28	-7,469.69	3,694.09	9,074.97	8,966.86	108.11	83.938	
8,750.00	7,568.45	7,856.84	7,587.27	73.58	40.13	24.06	-7,469.67	3,694.91	9,030.33	8,922.04	108.29	83.390	
8,800.00	7,585.69	7,880.65	7,611.06	73.43	40.20	21.50	-7,469.63	3,695.56	8,983.90	8,875.47	108.42	82.859	
8,850.00	7,599.35	7,899.40	7,629.81	73.26	40.25	17.95	-7,469.59	3,696.06	8,936.04	8,827.52	108.52	82.344	
8,900.00	7,609.33	7,912.99	7,643.39	73.07	40.29	11.51	-7,469.56	3,696.41	8,887.12	8,778.54	108.58	81.850	
8,950.00	7,615.55	7,921.35	7,651.75	72.87	40.31	-6.62	-7,469.54	3,696.62	8,837.52	8,728.92	108.60	81.376	
9,000.00	7,617.97	7,924.46	7,654.86	72.65	40.32	-80.84	-7,469.53	3,696.70	8,787.62	8,679.02	108.59	80.924	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,006.60	7,618.00	7,924.48	7,654.88	72.62	40.32	-91.68	-7,469.53	3,696.70	8,781.02	8,672.43	108.59	80.866	
9,100.00	7,618.00	7,924.08	7,654.48	72.22	40.32	-91.64	-7,469.53	3,696.69	8,687.78	8,579.25	108.53	80.049	
9,200.00	7,618.00	7,923.66	7,654.06	71.80	40.32	-91.59	-7,469.53	3,696.68	8,587.95	8,479.49	108.47	79.175	
9,300.00	7,618.00	7,923.25	7,653.65	71.41	40.31	-91.54	-7,469.53	3,696.67	8,488.13	8,379.73	108.40	78.301	
9,400.00	7,618.00	7,922.83	7,653.23	71.04	40.31	-91.50	-7,469.53	3,696.66	8,388.31	8,279.97	108.34	77.426	
9,500.00	7,618.00	7,922.42	7,652.82	70.68	40.31	-91.45	-7,469.53	3,696.65	8,288.50	8,180.22	108.27	76.550	
9,600.00	7,618.00	7,922.01	7,652.41	70.35	40.31	-91.40	-7,469.53	3,696.64	8,188.68	8,080.48	108.21	75.675	
9,700.00	7,618.00	7,921.60	7,652.00	70.04	40.31	-91.36	-7,469.53	3,696.63	8,088.88	7,980.74	108.14	74.799	
9,800.00	7,618.00	7,921.20	7,651.60	69.75	40.31	-91.31	-7,469.54	3,696.62	7,989.08	7,881.00	108.07	73.923	
9,900.00	7,618.00	7,920.80	7,651.20	69.47	40.31	-91.27	-7,469.54	3,696.61	7,889.28	7,781.28	108.00	73.047	
10,000.00	7,618.00	7,920.40	7,650.80	69.22	40.31	-91.22	-7,469.54	3,696.60	7,789.49	7,681.56	107.93	72.170	
10,100.00	7,618.00	7,920.01	7,650.41	68.99	40.31	-91.18	-7,469.54	3,696.59	7,689.70	7,581.84	107.86	71.293	
10,200.00	7,618.00	7,919.62	7,650.02	68.78	40.30	-91.13	-7,469.54	3,696.58	7,589.92	7,482.14	107.79	70.416	
10,300.00	7,618.00	7,919.23	7,649.63	68.59	40.30	-91.09	-7,469.54	3,696.57	7,490.15	7,382.44	107.71	69.539	
10,400.00	7,618.00	7,918.84	7,649.24	68.42	40.30	-91.05	-7,469.54	3,696.56	7,390.38	7,282.75	107.64	68.661	
10,500.00	7,618.00	7,918.46	7,648.86	68.28	40.30	-91.00	-7,469.54	3,696.55	7,290.62	7,183.06	107.56	67.784	
10,600.00	7,618.00	7,918.08	7,648.48	68.16	40.30	-90.96	-7,469.55	3,696.54	7,190.86	7,083.39	107.48	66.906	
10,700.00	7,618.00	7,917.70	7,648.10	68.06	40.30	-90.92	-7,469.55	3,696.53	7,091.12	6,983.72	107.40	66.028	
10,800.00	7,618.00	7,917.33	7,647.73	67.99	40.30	-90.87	-7,469.55	3,696.52	6,991.37	6,884.06	107.31	65.150	
10,900.00	7,618.00	7,916.95	7,647.35	67.95	40.30	-90.83	-7,469.55	3,696.51	6,891.64	6,784.41	107.23	64.271	
11,000.00	7,618.00	7,916.58	7,646.98	67.95	40.30	-90.79	-7,469.55	3,696.50	6,791.91	6,684.77	107.14	63.392	
11,100.00	7,618.00	7,916.21	7,646.62	67.97	40.30	-90.75	-7,469.55	3,696.49	6,692.20	6,585.14	107.05	62.514	
11,200.00	7,618.00	7,915.85	7,646.25	68.04	40.29	-90.71	-7,469.55	3,696.48	6,592.49	6,485.53	106.96	61.635	
11,300.00	7,618.00	7,915.49	7,645.89	68.15	40.29	-90.67	-7,469.55	3,696.47	6,492.79	6,385.92	106.87	60.756	
11,400.00	7,618.00	7,915.13	7,645.53	68.30	40.29	-90.63	-7,469.55	3,696.46	6,393.10	6,286.32	106.77	59.877	
11,500.00	7,618.00	7,914.77	7,645.17	68.50	40.29	-90.59	-7,469.55	3,696.45	6,293.41	6,186.74	106.67	58.997	
11,600.00	7,618.00	7,914.41	7,644.82	68.75	40.29	-90.55	-7,469.56	3,696.44	6,193.74	6,087.17	106.57	58.118	
11,700.00	7,618.00	7,914.06	7,644.46	69.06	40.29	-90.51	-7,469.56	3,696.43	6,094.08	5,987.62	106.47	57.239	
11,800.00	7,618.00	7,913.71	7,644.11	69.44	40.29	-90.47	-7,469.56	3,696.43	5,994.43	5,888.07	106.36	56.359	
11,900.00	7,618.00	7,913.36	7,643.76	69.88	40.29	-90.43	-7,469.56	3,696.42	5,894.80	5,788.55	106.25	55.480	
12,000.00	7,618.00	7,913.01	7,643.42	70.39	40.29	-90.39	-7,469.56	3,696.41	5,795.17	5,689.03	106.14	54.600	
12,100.00	7,618.00	7,912.67	7,643.07	70.97	40.29	-90.35	-7,469.56	3,696.40	5,695.56	5,589.54	106.02	53.720	
12,200.00	7,618.00	7,912.33	7,642.73	71.63	40.28	-90.31	-7,469.56	3,696.39	5,595.96	5,490.06	105.90	52.840	
12,300.00	7,618.00	7,911.99	7,642.39	72.35	40.28	-90.27	-7,469.56	3,696.38	5,496.38	5,390.60	105.78	51.961	
12,400.00	7,618.00	7,911.65	7,642.06	73.15	40.28	-90.23	-7,469.56	3,696.37	5,396.81	5,291.16	105.65	51.081	
12,500.00	7,618.00	7,911.32	7,641.72	74.01	40.28	-90.20	-7,469.56	3,696.36	5,297.26	5,191.74	105.52	50.201	
12,600.00	7,618.00	7,910.99	7,641.39	74.93	40.28	-90.16	-7,469.56	3,696.36	5,197.73	5,092.34	105.39	49.321	
12,700.00	7,618.00	7,910.66	7,641.06	75.91	40.28	-90.12	-7,469.57	3,696.35	5,098.21	4,992.97	105.25	48.441	
12,800.00	7,618.00	7,910.33	7,640.73	76.95	40.28	-90.08	-7,469.57	3,696.34	4,998.72	4,893.62	105.10	47.561	
12,900.00	7,618.00	7,910.00	7,640.41	78.04	40.28	-90.05	-7,469.57	3,696.33	4,899.24	4,794.29	104.95	46.682	
13,000.00	7,618.00	7,909.68	7,640.08	79.16	40.28	-90.01	-7,469.57	3,696.32	4,799.79	4,694.99	104.79	45.802	
13,100.00	7,618.00	7,909.36	7,639.76	80.33	40.28	-89.97	-7,469.57	3,696.31	4,700.35	4,595.72	104.63	44.922	
13,200.00	7,618.00	7,909.04	7,639.44	81.54	40.28	-89.94	-7,469.57	3,696.31	4,600.95	4,496.48	104.47	44.042	
13,300.00	7,618.00	7,908.72	7,639.12	82.78	40.27	-89.90	-7,469.57	3,696.30	4,501.57	4,397.27	104.29	43.162	
13,400.00	7,618.00	7,908.40	7,638.81	84.05	40.27	-89.86	-7,469.57	3,696.29	4,402.22	4,298.10	104.11	42.283	
13,500.00	7,618.00	7,908.09	7,638.49	85.35	40.27	-89.83	-7,469.57	3,696.28	4,302.89	4,198.97	103.93	41.403	
13,600.00	7,618.00	7,907.78	7,638.18	86.67	40.27	-89.79	-7,469.57	3,696.27	4,203.60	4,099.87	103.73	40.523	
13,700.00	7,618.00	7,907.47	7,637.87	88.02	40.27	-89.76	-7,469.57	3,696.27	4,104.35	4,000.82	103.53	39.644	
13,800.00	7,618.00	7,907.16	7,637.56	89.38	40.27	-89.72	-7,469.58	3,696.26	4,005.13	3,901.81	103.32	38.764	
13,900.00	7,618.00	7,906.85	7,637.26	90.77	40.27	-89.69	-7,469.58	3,696.25	3,905.95	3,802.85	103.10	37.885	
14,000.00	7,618.00	7,906.55	7,636.95	92.17	40.27	-89.65	-7,469.58	3,696.24	3,806.81	3,703.94	102.87	37.005	
14,100.00	7,618.00	7,906.25	7,636.65	93.59	40.27	-89.62	-7,469.58	3,696.23	3,707.73	3,605.09	102.63	36.125	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,618.00	7,905.95	7,636.35	95.02	40.27	-89.59	-7,469.58	3,696.23	3,608.69	3,506.30	102.39	35.246	
14,300.00	7,618.00	7,905.65	7,636.05	96.47	40.27	-89.55	-7,469.58	3,696.22	3,509.70	3,407.57	102.13	34.366	
14,400.00	7,618.00	7,905.35	7,635.76	97.93	40.27	-89.52	-7,469.58	3,696.21	3,410.78	3,308.92	101.86	33.486	
14,500.00	7,618.00	7,905.06	7,635.46	99.41	40.27	-89.49	-7,469.58	3,696.20	3,311.91	3,210.34	101.57	32.606	
14,600.00	7,618.00	7,904.76	7,635.17	100.89	40.26	-89.45	-7,469.58	3,696.20	3,213.12	3,111.85	101.28	31.726	
14,700.00	7,618.00	7,904.47	7,634.88	102.38	40.26	-89.42	-7,469.58	3,696.19	3,114.41	3,013.44	100.97	30.846	
14,800.00	7,618.00	7,904.18	7,634.59	103.89	40.26	-89.39	-7,469.58	3,696.18	3,015.78	2,915.14	100.64	29.965	
14,900.00	7,618.00	7,903.89	7,634.30	105.40	40.26	-89.35	-7,469.58	3,696.17	2,917.25	2,816.94	100.31	29.083	
15,000.00	7,618.00	7,903.61	7,634.01	106.92	40.26	-89.32	-7,469.58	3,696.17	2,818.81	2,718.86	99.95	28.201	
15,100.00	7,618.00	7,903.32	7,633.73	108.45	40.26	-89.29	-7,469.58	3,696.16	2,720.50	2,620.91	99.58	27.318	
15,200.00	7,618.00	7,903.04	7,633.45	109.99	40.26	-89.26	-7,469.59	3,696.15	2,622.31	2,523.11	99.20	26.434	
15,300.00	7,618.00	7,902.76	7,633.17	111.54	40.26	-89.23	-7,469.59	3,696.14	2,524.26	2,425.46	98.80	25.549	
15,400.00	7,618.00	7,902.48	7,632.89	113.09	40.26	-89.19	-7,469.59	3,696.14	2,426.37	2,327.98	98.39	24.662	
15,500.00	7,618.00	7,902.20	7,632.61	114.65	40.26	-89.16	-7,469.59	3,696.13	2,328.66	2,230.70	97.96	23.772	
15,600.00	7,618.00	7,901.93	7,632.33	116.21	40.26	-89.13	-7,469.59	3,696.12	2,231.15	2,133.63	97.52	22.880	
15,700.00	7,618.00	7,901.65	7,632.06	117.78	40.26	-89.10	-7,469.59	3,696.12	2,133.87	2,036.81	97.07	21.984	
15,800.00	7,618.00	7,901.38	7,631.79	119.36	40.26	-89.07	-7,469.59	3,696.11	2,036.86	1,940.25	96.61	21.083	
15,900.00	7,618.00	7,901.11	7,631.52	120.94	40.25	-89.04	-7,469.59	3,696.10	1,940.15	1,843.99	96.16	20.177	
16,000.00	7,618.00	7,900.84	7,631.25	122.53	40.25	-89.01	-7,469.59	3,696.09	1,843.79	1,748.08	95.72	19.263	
16,100.00	7,618.00	7,900.57	7,630.98	124.12	40.25	-88.98	-7,469.59	3,696.09	1,747.85	1,652.54	95.30	18.340	
16,200.00	7,618.00	7,900.31	7,630.71	125.72	40.25	-88.95	-7,469.59	3,696.08	1,652.38	1,557.44	94.94	17.405	
16,300.00	7,618.00	7,900.04	7,630.45	127.32	40.25	-88.92	-7,469.59	3,696.07	1,557.48	1,462.83	94.65	16.456	
16,400.00	7,618.00	7,899.78	7,630.19	128.93	40.25	-88.89	-7,469.59	3,696.07	1,463.26	1,368.78	94.48	15.488	
16,500.00	7,618.00	7,899.52	7,629.93	130.54	40.25	-88.86	-7,469.59	3,696.06	1,369.86	1,275.37	94.49	14.498	
16,600.00	7,618.00	7,899.26	7,629.67	132.15	40.25	-88.83	-7,469.59	3,696.05	1,277.45	1,182.69	94.76	13.481	
16,700.00	7,618.00	7,899.00	7,629.41	133.77	40.25	-88.80	-7,469.60	3,696.05	1,186.29	1,090.87	95.41	12.433	
16,800.00	7,618.00	7,898.74	7,629.15	135.39	40.25	-88.77	-7,469.60	3,696.04	1,096.66	1,000.06	96.60	11.353	
16,900.00	7,618.00	7,898.49	7,628.89	137.01	40.25	-88.74	-7,469.60	3,696.03	1,008.98	910.45	98.53	10.240	
17,000.00	7,618.00	7,898.23	7,628.64	138.64	40.25	-88.71	-7,469.60	3,696.03	923.81	822.35	101.46	9.105	
17,100.00	7,618.00	7,897.98	7,628.39	140.27	40.25	-88.68	-7,469.60	3,696.02	841.91	736.19	105.72	7.964	
17,200.00	7,618.00	7,897.73	7,628.14	141.91	40.25	-88.66	-7,469.60	3,696.01	764.33	652.69	111.64	6.846	
17,300.00	7,618.00	7,897.48	7,627.89	143.55	40.24	-88.63	-7,469.60	3,696.01	692.52	572.96	119.55	5.793	
17,400.00	7,618.00	7,897.23	7,627.64	145.19	40.24	-88.60	-7,469.60	3,696.00	628.46	498.82	129.65	4.848	
17,500.00	7,618.00	7,896.98	7,627.39	146.83	40.24	-88.57	-7,469.60	3,695.99	574.76	432.99	141.77	4.054	
17,600.00	7,618.00	7,896.74	7,627.15	148.48	40.24	-88.54	-7,469.60	3,695.99	534.54	379.38	155.16	3.445	
17,700.00	7,618.00	7,896.49	7,626.90	150.13	40.24	-88.52	-7,469.60	3,695.98	511.00	342.74	168.26	3.037	
17,773.08	7,618.00	7,896.31	7,626.72	151.33	40.24	-88.50	-7,469.60	3,695.98	505.74	329.32	176.42	2.867	CC
17,800.00	7,618.00	7,896.25	7,626.66	151.78	40.24	-88.49	-7,469.60	3,695.97	506.46	327.52	178.94	2.830	ES
17,900.00	7,618.00	7,896.01	7,626.42	153.43	40.24	-88.46	-7,469.60	3,695.97	521.42	335.94	185.49	2.811	SF
18,000.00	7,618.00	7,895.77	7,626.18	155.09	40.24	-88.43	-7,469.60	3,695.96	554.32	366.76	187.56	2.955	
18,100.00	7,618.00	7,895.53	7,625.94	156.75	40.24	-88.41	-7,469.60	3,695.95	602.20	416.09	186.12	3.236	
18,200.00	7,618.00	7,895.29	7,625.70	158.41	40.24	-88.38	-7,469.60	3,695.95	661.84	479.27	182.57	3.625	
18,300.00	7,618.00	7,895.05	7,625.46	160.07	40.24	-88.35	-7,469.60	3,695.94	730.35	552.28	178.07	4.101	
18,400.00	7,618.00	7,894.82	7,625.23	161.74	40.24	-88.33	-7,469.60	3,695.94	805.48	632.11	173.37	4.646	
18,500.00	7,618.00	7,894.59	7,625.00	163.41	40.24	-88.30	-7,469.61	3,695.93	885.54	716.71	168.83	5.245	
18,600.00	7,618.00	7,894.35	7,624.76	165.08	40.24	-88.27	-7,469.61	3,695.92	969.31	804.66	164.65	5.887	
18,700.00	7,618.00	7,894.12	7,624.53	166.75	40.24	-88.25	-7,469.61	3,695.92	1,055.91	895.03	160.88	6.563	
18,711.30	7,618.00	7,894.10	7,624.51	166.94	40.24	-88.24	-7,469.61	3,695.92	1,065.85	905.37	160.48	6.642	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	162.06	-5,369.91	1,738.35	5,644.28				
100.00	100.00	50.49	50.49	0.13	0.08	162.06	-5,370.15	1,738.23	5,644.61	5,644.40	0.21	N/A	
200.00	200.00	157.20	157.18	0.49	0.38	162.08	-5,371.59	1,737.25	5,645.64	5,644.76	0.87	6,475.826	
300.00	300.00	252.92	252.89	0.85	0.72	162.09	-5,372.51	1,736.00	5,646.16	5,644.59	1.57	3,589.099	
400.00	400.00	346.97	346.93	1.21	1.06	162.11	-5,373.68	1,734.78	5,646.94	5,644.67	2.27	2,487.741	
500.00	500.00	410.18	410.12	1.57	1.29	162.12	-5,374.72	1,733.67	5,648.00	5,645.15	2.86	1,976.943	
600.00	600.00	456.00	455.90	1.93	1.46	162.14	-5,376.00	1,732.35	5,649.86	5,646.48	3.38	1,670.886	
700.00	700.00	511.66	511.47	2.29	1.66	162.17	-5,378.24	1,730.19	5,652.58	5,648.64	3.94	1,433.178	
800.00	800.00	549.00	548.72	2.64	1.80	162.19	-5,380.21	1,728.42	5,656.26	5,651.82	4.44	1,274.237	
900.00	900.00	601.57	601.10	3.00	2.00	162.23	-5,383.61	1,725.60	5,660.88	5,655.89	4.99	1,133.793	
1,000.00	999.98	640.00	639.35	3.36	2.15	104.96	-5,386.58	1,723.33	5,666.97	5,661.49	5.49	1,032.293	
1,100.00	1,099.84	688.04	687.10	3.71	2.34	104.87	-5,390.87	1,720.24	5,674.96	5,668.93	6.02	941.905	
1,200.00	1,199.45	732.00	730.72	4.07	2.51	104.76	-5,395.35	1,717.15	5,684.84	5,678.29	6.55	868.056	
1,300.00	1,298.70	771.62	769.96	4.44	2.67	104.62	-5,399.87	1,714.13	5,696.63	5,689.56	7.07	805.971	
1,400.00	1,397.47	825.00	822.72	4.82	2.89	104.50	-5,406.70	1,709.68	5,710.38	5,702.72	7.65	746.033	
1,500.00	1,495.62	853.56	850.87	5.22	3.02	104.28	-5,410.69	1,707.09	5,725.95	5,717.79	8.16	701.583	
1,600.00	1,593.06	895.79	892.42	5.65	3.20	104.09	-5,417.00	1,702.94	5,743.42	5,734.67	8.75	656.612	
1,700.00	1,689.64	941.31	937.08	6.11	3.41	103.89	-5,424.33	1,698.04	5,762.73	5,753.35	9.38	614.574	
1,800.00	1,785.27	991.02	985.71	6.61	3.64	103.69	-5,432.82	1,692.20	5,783.76	5,773.70	10.06	574.922	
1,900.00	1,879.82	1,012.00	1,006.19	7.15	3.74	103.33	-5,436.54	1,689.58	5,806.63	5,795.98	10.65	545.203	
2,000.00	1,973.17	1,068.71	1,061.37	7.73	4.02	103.13	-5,447.19	1,681.94	5,831.20	5,819.74	11.45	509.207	
2,100.00	2,065.21	1,106.00	1,097.48	8.37	4.20	102.81	-5,454.72	1,676.45	5,857.73	5,845.52	12.20	480.026	
2,200.00	2,155.84	1,209.07	1,197.03	9.07	4.74	102.86	-5,475.90	1,660.22	5,885.69	5,872.36	13.33	441.470	
2,300.00	2,244.94	1,232.00	1,219.14	9.82	4.86	102.41	-5,480.77	1,656.59	5,915.19	5,901.07	14.11	419.107	
2,400.00	2,332.39	1,260.16	1,246.29	10.64	5.02	101.95	-5,486.88	1,652.27	5,946.56	5,931.59	14.97	397.276	
2,500.00	2,418.11	1,303.00	1,287.64	11.53	5.25	101.55	-5,496.24	1,646.14	5,979.64	5,963.70	15.95	374.987	
2,558.91	2,467.74	2,558.91	1,356.11	12.08	12.01	101.62	-5,511.34	1,636.90	5,999.57	5,977.24	22.33	268.714	
2,600.00	2,502.13	1,445.73	1,425.92	12.47	6.01	102.12	-5,526.39	1,627.66	6,013.60	5,996.13	17.47	344.313	
2,700.00	2,585.83	1,514.18	1,492.27	13.45	6.37	102.59	-5,540.48	1,618.51	6,047.99	6,029.36	18.64	324.510	
2,800.00	2,669.53	1,559.29	1,535.91	14.44	6.62	102.90	-5,549.95	1,612.16	6,083.26	6,063.56	19.70	308.761	
2,900.00	2,753.22	1,600.84	1,576.05	15.46	6.85	103.19	-5,558.87	1,606.08	6,119.48	6,098.72	20.75	294.861	
3,000.00	2,836.92	1,638.51	1,612.38	16.48	7.06	103.45	-5,567.14	1,600.53	6,156.67	6,134.89	21.79	282.577	
3,100.00	2,920.62	1,678.00	1,650.41	17.52	7.28	103.72	-5,576.00	1,594.72	6,194.86	6,172.03	22.83	271.358	
3,200.00	3,004.32	1,767.61	1,736.76	18.56	7.79	104.33	-5,596.13	1,581.72	6,233.73	6,209.59	24.13	258.301	
3,300.00	3,088.01	2,089.90	2,049.38	19.61	9.54	106.46	-5,660.51	1,537.23	6,271.05	6,244.42	26.63	235.487	
3,400.00	3,171.71	2,147.00	2,104.99	20.67	9.84	106.83	-5,670.82	1,529.40	6,308.16	6,280.41	27.75	227.304	
3,500.00	3,255.41	2,195.36	2,152.04	21.73	10.10	107.15	-5,679.69	1,522.61	6,346.06	6,317.24	28.83	220.143	
3,600.00	3,339.10	2,240.00	2,195.38	22.80	10.34	107.43	-5,688.22	1,516.16	6,384.98	6,355.10	29.88	213.721	
3,700.00	3,422.80	2,269.86	2,224.35	23.87	10.50	107.63	-5,694.06	1,511.88	6,424.79	6,393.95	30.84	208.336	
3,800.00	3,506.50	2,312.41	2,265.65	24.94	10.73	107.90	-5,702.52	1,506.11	6,465.47	6,433.62	31.86	202.935	
3,900.00	3,590.20	2,396.65	2,347.46	26.02	11.19	108.43	-5,719.42	1,495.22	6,506.88	6,473.79	33.09	196.641	
4,000.00	3,673.89	4,000.00	2,458.50	27.10	19.78	109.14	-5,741.48	1,480.09	6,548.17	6,507.01	41.16	159.101	
4,100.00	3,757.59	2,574.57	2,520.48	28.18	12.14	109.53	-5,753.58	1,471.78	6,589.86	6,554.29	35.57	185.239	
4,200.00	3,841.29	2,615.15	2,559.92	29.26	12.36	109.78	-5,761.48	1,466.37	6,632.38	6,595.83	36.55	181.447	
4,300.00	3,924.99	2,684.75	2,627.50	30.35	12.74	110.21	-5,775.18	1,456.91	6,675.55	6,637.87	37.68	177.180	
4,400.00	4,008.68	3,036.23	2,970.67	31.44	14.55	112.29	-5,836.36	1,412.18	6,717.05	6,676.82	40.23	166.980	
4,500.00	4,092.38	3,084.00	3,017.53	32.52	14.79	112.56	-5,843.74	1,406.58	6,758.22	6,717.00	41.22	163.962	
4,600.00	4,176.08	3,120.47	3,053.29	33.62	14.97	112.77	-5,849.53	1,402.35	6,800.20	6,758.06	42.15	161.352	
4,700.00	4,259.77	3,144.47	3,076.79	34.71	15.09	112.90	-5,853.55	1,399.56	6,843.16	6,800.17	43.00	159.146	
4,800.00	4,343.47	3,178.00	3,109.56	35.80	15.26	113.09	-5,859.44	1,395.66	6,887.08	6,843.19	43.89	156.914	
4,900.00	4,427.17	3,202.34	3,133.33	36.89	15.39	113.23	-5,863.87	1,392.82	6,931.85	6,887.13	44.73	154.984	
5,000.00	4,510.87	3,243.42	3,173.40	37.99	15.60	113.46	-5,871.46	1,387.96	6,977.38	6,931.74	45.64	152.884	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	3,288.50	3,217.33	39.08	15.84	113.71	-5,879.99	1,382.51	7,023.62	6,977.06	46.56	150.839	
5,200.00	4,678.26	3,342.89	3,270.25	40.18	16.13	114.02	-5,890.39	1,375.44	7,070.47	7,022.94	47.53	148.754	
5,300.00	4,761.96	3,387.70	3,313.77	41.28	16.37	114.27	-5,899.03	1,369.18	7,117.91	7,069.47	48.44	146.947	
5,400.00	4,845.66	3,426.24	3,351.17	42.37	16.58	114.49	-5,906.63	1,363.81	7,166.05	7,116.74	49.30	145.343	
5,500.00	4,929.35	3,459.00	3,382.94	43.47	16.76	114.67	-5,913.22	1,359.27	7,214.89	7,164.76	50.13	143.928	
5,600.00	5,013.05	3,459.00	3,382.94	44.57	16.76	114.67	-5,913.22	1,359.27	7,264.64	7,213.89	50.76	143.119	
5,700.00	5,096.75	3,503.98	3,426.49	45.67	17.02	114.93	-5,922.67	1,353.17	7,314.97	7,263.34	51.63	141.677	
5,800.00	5,180.45	3,553.00	3,473.82	46.77	17.29	115.19	-5,933.69	1,346.76	7,366.43	7,313.92	52.52	140.265	
5,900.00	5,264.14	5,383.16	5,275.52	47.87	24.83	123.55	-6,138.13	1,218.00	7,416.11	7,354.83	61.28	121.019	
6,000.00	5,347.84	5,502.80	5,395.15	48.97	25.11	123.99	-6,137.58	1,218.90	7,449.71	7,387.33	62.39	119.411	
6,100.00	5,431.54	5,604.49	5,496.84	50.07	25.35	124.36	-6,136.76	1,219.54	7,483.27	7,419.83	63.44	117.964	
6,200.00	5,515.23	5,706.12	5,598.46	51.17	25.60	124.73	-6,135.67	1,219.86	7,516.88	7,452.39	64.49	116.568	
6,300.00	5,598.93	5,820.24	5,712.57	52.27	25.88	125.14	-6,134.10	1,220.24	7,550.46	7,484.89	65.57	115.152	
6,400.00	5,682.63	5,917.44	5,809.76	53.38	26.11	125.49	-6,132.48	1,220.50	7,584.05	7,517.45	66.60	113.875	
6,500.00	5,766.33	6,010.49	5,902.79	54.48	26.34	125.82	-6,130.75	1,220.60	7,617.72	7,550.11	67.62	112.662	
6,600.00	5,850.02	6,091.60	5,983.89	55.58	26.55	126.11	-6,129.20	1,220.46	7,651.62	7,583.03	68.59	111.553	
6,700.00	5,933.72	6,186.67	6,078.93	56.68	26.79	126.45	-6,127.31	1,220.12	7,685.70	7,616.09	69.61	110.412	
6,800.00	6,017.42	6,287.79	6,180.03	57.79	27.05	126.81	-6,125.11	1,219.76	7,719.85	7,649.21	70.64	109.281	
6,900.00	6,101.12	6,366.85	6,259.07	58.89	27.25	127.08	-6,123.35	1,219.45	7,754.18	7,682.58	71.60	108.295	
7,000.00	6,184.81	6,481.45	6,373.63	59.99	27.55	127.48	-6,120.55	1,218.92	7,788.58	7,715.90	72.67	107.173	
7,100.00	6,268.51	6,578.80	6,470.95	61.10	27.80	127.82	-6,117.91	1,218.68	7,822.93	7,749.24	73.68	106.169	
7,200.00	6,352.21	6,655.31	6,547.43	62.20	28.00	128.07	-6,115.88	1,218.86	7,857.49	7,782.87	74.62	105.294	
7,300.00	6,435.90	6,720.54	6,612.64	63.31	28.17	128.29	-6,114.30	1,219.16	7,892.42	7,816.90	75.52	104.503	
7,400.00	6,519.60	6,799.23	6,691.31	64.41	28.37	128.55	-6,112.55	1,219.53	7,927.71	7,851.25	76.46	103.680	
7,500.00	6,603.30	6,872.31	6,764.37	65.51	28.57	128.79	-6,110.96	1,219.87	7,963.25	7,885.87	77.38	102.910	
7,600.00	6,687.00	6,944.51	6,836.56	66.62	28.76	129.03	-6,109.52	1,220.08	7,999.17	7,920.88	78.29	102.172	
7,700.00	6,770.69	7,050.33	6,942.35	67.72	29.04	129.37	-6,107.34	1,220.73	8,035.17	7,955.86	79.31	101.310	
7,800.00	6,854.39	7,137.22	7,029.22	68.83	29.27	129.65	-6,105.51	1,221.45	8,071.29	7,991.02	80.27	100.556	
7,900.00	6,938.09	7,228.69	7,120.67	69.93	29.52	129.94	-6,103.50	1,222.29	8,107.51	8,026.27	81.23	99.805	
7,933.18	6,965.86	7,252.01	7,143.98	70.30	29.58	130.01	-6,102.99	1,222.53	8,119.57	8,038.04	81.53	99.591	
7,950.00	6,980.00	7,263.88	7,155.84	70.49	29.61	127.61	-6,102.74	1,222.65	8,125.47	8,043.79	81.68	99.480	
8,000.00	7,022.68	7,299.64	7,191.60	71.01	29.71	119.85	-6,102.01	1,223.04	8,140.37	8,058.24	82.14	99.107	
8,050.00	7,066.06	7,356.38	7,248.32	71.51	29.86	111.37	-6,100.86	1,223.70	8,151.19	8,068.51	82.68	98.590	
8,100.00	7,109.82	7,424.82	7,316.74	71.97	30.05	102.46	-6,099.32	1,224.61	8,157.76	8,074.49	83.26	97.975	
8,150.00	7,153.63	7,510.23	7,402.11	72.38	30.28	93.64	-6,097.12	1,226.10	8,159.94	8,076.03	83.91	97.249	
8,200.00	7,197.14	7,557.23	7,449.08	72.74	30.40	85.21	-6,095.85	1,227.15	8,157.81	8,073.39	84.41	96.640	
8,250.00	7,240.04	7,607.81	7,499.62	73.05	30.54	77.70	-6,094.47	1,228.49	8,151.45	8,066.53	84.92	95.985	
8,300.00	7,281.99	7,654.98	7,546.75	73.31	30.66	71.28	-6,093.19	1,229.91	8,140.93	8,055.52	85.41	95.316	
8,350.00	7,322.67	7,702.77	7,594.50	73.52	30.79	65.99	-6,091.90	1,231.52	8,126.34	8,040.46	85.88	94.622	
8,400.00	7,361.77	7,751.84	7,643.52	73.68	30.92	61.80	-6,090.51	1,233.14	8,107.77	8,021.43	86.34	93.903	
8,450.00	7,399.01	8,450.00	7,676.20	73.78	32.79	58.52	-6,089.55	1,234.20	8,085.38	7,996.59	88.80	91.053	
8,500.00	7,434.08	7,802.01	7,693.64	73.85	31.05	56.05	-6,089.05	1,234.69	8,059.43	7,972.39	87.04	92.594	
8,550.00	7,466.74	7,817.95	7,709.57	73.87	31.10	54.37	-6,088.62	1,235.10	8,030.13	7,942.80	87.33	91.952	
8,600.00	7,496.72	7,832.51	7,724.13	73.85	31.14	53.45	-6,088.25	1,235.44	7,997.66	7,910.07	87.59	91.305	
8,650.00	7,523.80	8,116.93	8,008.13	73.79	31.90	55.26	-6,077.39	1,244.98	7,961.95	7,873.20	88.75	89.715	
8,700.00	7,547.77	8,131.14	8,022.31	73.70	31.93	56.24	-6,076.66	1,245.66	7,923.09	7,834.11	88.98	89.048	
8,750.00	7,568.45	8,143.19	8,034.33	73.58	31.96	58.26	-6,076.05	1,246.24	7,881.92	7,792.74	89.18	88.383	
8,800.00	7,585.69	8,156.00	8,047.11	73.43	32.00	61.64	-6,075.42	1,246.85	7,838.74	7,749.37	89.37	87.713	
8,850.00	7,599.35	8,156.00	8,047.11	73.26	32.00	66.65	-6,075.42	1,246.85	7,793.85	7,704.35	89.50	87.083	
8,900.00	7,609.33	8,156.00	8,047.11	73.07	32.00	74.15	-6,075.42	1,246.85	7,747.59	7,657.98	89.62	86.453	
8,950.00	7,615.55	8,156.00	8,047.11	72.87	32.00	85.11	-6,075.42	1,246.85	7,700.30	7,610.58	89.72	85.826	
9,000.00	7,617.97	8,156.00	8,047.11	72.65	32.00	100.33	-6,075.42	1,246.85	7,652.30	7,562.49	89.81	85.203	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,006.60	7,618.00	8,156.00	8,047.11	72.62	32.00	102.65	-6,075.42	1,246.85	7,645.93	7,556.11	89.82	85.120	
9,100.00	7,618.00	8,156.00	8,047.11	72.22	32.00	102.65	-6,075.42	1,246.85	7,555.82	7,465.83	89.99	83.964	
9,200.00	7,618.00	8,156.00	8,047.11	71.80	32.00	102.65	-6,075.42	1,246.85	7,459.42	7,369.25	90.17	82.726	
9,300.00	7,618.00	8,156.00	8,047.11	71.41	32.00	102.65	-6,075.42	1,246.85	7,363.12	7,272.76	90.36	81.487	
9,400.00	7,618.00	8,156.00	8,047.11	71.04	32.00	102.65	-6,075.42	1,246.85	7,266.91	7,176.36	90.56	80.248	
9,500.00	7,618.00	8,156.00	8,047.11	70.68	32.00	102.65	-6,075.42	1,246.85	7,170.82	7,080.06	90.76	79.010	
9,600.00	7,618.00	8,156.00	8,047.11	70.35	32.00	102.65	-6,075.42	1,246.85	7,074.83	6,983.85	90.97	77.771	
9,700.00	7,618.00	8,145.60	8,036.73	70.04	31.97	102.35	-6,075.93	1,246.36	6,978.94	6,887.78	91.15	76.563	
9,800.00	7,618.00	8,142.28	8,033.43	69.75	31.96	102.26	-6,076.10	1,246.20	6,883.17	6,791.80	91.37	75.333	
9,900.00	7,618.00	8,138.94	8,030.09	69.47	31.95	102.16	-6,076.27	1,246.04	6,787.52	6,695.92	91.59	74.104	
10,000.00	7,618.00	8,135.57	8,026.73	69.22	31.94	102.07	-6,076.44	1,245.88	6,691.99	6,600.16	91.83	72.875	
10,100.00	7,618.00	8,132.17	8,023.34	68.99	31.94	101.97	-6,076.61	1,245.71	6,596.60	6,504.53	92.07	71.647	
10,200.00	7,618.00	8,128.74	8,019.92	68.78	31.93	101.87	-6,076.78	1,245.55	6,501.34	6,409.01	92.32	70.418	
10,300.00	7,618.00	8,125.28	8,016.47	68.59	31.92	101.78	-6,076.96	1,245.38	6,406.22	6,313.63	92.59	69.191	
10,400.00	7,618.00	8,121.79	8,012.99	68.42	31.91	101.68	-6,077.14	1,245.21	6,311.25	6,218.39	92.86	67.964	
10,500.00	7,618.00	8,118.27	8,009.47	68.28	31.90	101.58	-6,077.32	1,245.04	6,216.44	6,123.29	93.15	66.737	
10,600.00	7,618.00	8,114.72	8,005.93	68.16	31.89	101.48	-6,077.50	1,244.87	6,121.78	6,028.34	93.45	65.512	
10,700.00	7,618.00	8,111.13	8,002.35	68.06	31.88	101.37	-6,077.69	1,244.69	6,027.30	5,933.55	93.76	64.288	
10,800.00	7,618.00	8,107.51	7,998.74	67.99	31.87	101.27	-6,077.87	1,244.52	5,933.00	5,838.92	94.08	63.065	
10,900.00	7,618.00	8,103.86	7,995.10	67.95	31.86	101.17	-6,078.07	1,244.34	5,838.88	5,744.46	94.41	61.843	
11,000.00	7,618.00	8,100.18	7,991.43	67.95	31.85	101.06	-6,078.26	1,244.16	5,744.95	5,650.19	94.77	60.623	
11,100.00	7,618.00	8,096.46	7,987.72	67.97	31.84	100.96	-6,078.46	1,243.97	5,651.24	5,556.10	95.13	59.405	
11,200.00	7,618.00	8,092.71	7,983.97	68.04	31.83	100.85	-6,078.65	1,243.79	5,557.73	5,462.22	95.51	58.188	
11,300.00	7,618.00	8,088.92	7,980.20	68.15	31.82	100.74	-6,078.86	1,243.60	5,464.46	5,368.54	95.91	56.974	
11,400.00	7,618.00	7,872.00	7,763.60	68.30	31.24	94.48	-6,087.33	1,236.17	5,371.46	5,276.10	95.37	56.325	
11,500.00	7,618.00	7,872.00	7,763.60	68.50	31.24	94.48	-6,087.33	1,236.17	5,278.52	5,182.71	95.81	55.096	
11,600.00	7,618.00	7,872.00	7,763.60	68.75	31.24	94.48	-6,087.33	1,236.17	5,185.84	5,089.57	96.26	53.871	
11,700.00	7,618.00	7,872.00	7,763.60	69.06	31.24	94.48	-6,087.33	1,236.17	5,093.44	4,996.69	96.74	52.648	
11,800.00	7,618.00	7,872.00	7,763.60	69.44	31.24	94.48	-6,087.33	1,236.17	5,001.33	4,904.08	97.25	51.429	
11,900.00	7,618.00	7,856.13	7,747.74	69.88	31.20	94.02	-6,087.68	1,235.91	4,909.48	4,811.79	97.69	50.255	
12,000.00	7,618.00	7,854.81	7,746.42	70.39	31.20	93.98	-6,087.71	1,235.88	4,818.00	4,719.76	98.23	49.047	
12,100.00	7,618.00	7,853.48	7,745.08	70.97	31.19	93.94	-6,087.74	1,235.86	4,726.86	4,628.06	98.80	47.843	
12,200.00	7,618.00	7,852.13	7,743.74	71.63	31.19	93.90	-6,087.78	1,235.83	4,636.08	4,536.69	99.39	46.645	
12,300.00	7,618.00	7,850.77	7,742.37	72.35	31.19	93.87	-6,087.81	1,235.81	4,545.69	4,445.68	100.01	45.451	
12,400.00	7,618.00	7,849.39	7,741.00	73.15	31.18	93.83	-6,087.84	1,235.78	4,455.71	4,355.05	100.66	44.264	
12,500.00	7,618.00	7,848.00	7,739.61	74.01	31.18	93.78	-6,087.87	1,235.75	4,366.17	4,264.83	101.34	43.082	
12,600.00	7,618.00	7,846.59	7,738.20	74.93	31.18	93.74	-6,087.91	1,235.73	4,277.09	4,175.03	102.06	41.908	
12,700.00	7,618.00	7,845.17	7,736.78	75.91	31.17	93.70	-6,087.94	1,235.70	4,188.50	4,085.70	102.81	40.741	
12,800.00	7,618.00	7,843.74	7,735.35	76.95	31.17	93.66	-6,087.97	1,235.67	4,100.44	3,996.85	103.59	39.582	
12,900.00	7,618.00	7,842.29	7,733.90	78.04	31.16	93.62	-6,088.01	1,235.64	4,012.93	3,908.52	104.42	38.432	
13,000.00	7,618.00	7,840.82	7,732.43	79.16	31.16	93.58	-6,088.04	1,235.61	3,926.02	3,820.74	105.28	37.291	
13,100.00	7,618.00	7,839.34	7,730.95	80.33	31.16	93.53	-6,088.08	1,235.58	3,839.75	3,733.56	106.19	36.160	
13,200.00	7,618.00	7,837.84	7,729.45	81.54	31.15	93.49	-6,088.12	1,235.55	3,754.16	3,647.02	107.14	35.041	
13,300.00	7,618.00	7,836.32	7,727.94	82.78	31.15	93.44	-6,088.15	1,235.52	3,669.29	3,561.16	108.13	33.933	
13,400.00	7,618.00	7,834.79	7,726.41	84.05	31.14	93.40	-6,088.19	1,235.49	3,585.21	3,476.03	109.18	32.838	
13,500.00	7,618.00	7,833.24	7,724.86	85.35	31.14	93.35	-6,088.23	1,235.45	3,501.96	3,391.68	110.28	31.756	
13,600.00	7,618.00	7,831.68	7,723.29	86.67	31.13	93.31	-6,088.27	1,235.42	3,419.60	3,308.18	111.43	30.689	
13,700.00	7,618.00	7,830.09	7,721.71	88.02	31.13	93.26	-6,088.31	1,235.38	3,338.21	3,225.58	112.63	29.638	
13,800.00	7,618.00	7,828.49	7,720.11	89.38	31.13	93.22	-6,088.35	1,235.35	3,257.86	3,143.96	113.89	28.604	
13,900.00	7,618.00	7,826.87	7,718.49	90.77	31.12	93.17	-6,088.39	1,235.31	3,178.61	3,063.40	115.22	27.588	
14,000.00	7,618.00	7,825.23	7,716.85	92.17	31.12	93.12	-6,088.43	1,235.27	3,100.57	2,983.97	116.60	26.592	
14,100.00	7,618.00	7,823.58	7,715.20	93.59	31.11	93.07	-6,088.47	1,235.23	3,023.82	2,905.78	118.04	25.617	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,618.00	7,821.90	7,713.52	95.02	31.11	93.02	-6,088.52	1,235.19	2,948.46	2,828.91	119.55	24.664	
14,300.00	7,618.00	7,820.20	7,711.83	96.47	31.10	92.97	-6,088.56	1,235.15	2,874.60	2,753.49	121.12	23.734	
14,400.00	7,618.00	7,818.49	7,710.11	97.93	31.10	92.92	-6,088.60	1,235.11	2,802.37	2,679.62	122.75	22.830	
14,500.00	7,618.00	7,816.75	7,708.38	99.41	31.09	92.87	-6,088.65	1,235.07	2,731.88	2,607.44	124.44	21.954	
14,600.00	7,618.00	7,815.00	7,706.62	100.89	31.09	92.82	-6,088.70	1,235.02	2,663.28	2,537.09	126.19	21.105	
14,700.00	7,618.00	7,813.22	7,704.85	102.38	31.08	92.77	-6,088.74	1,234.98	2,596.72	2,468.72	127.99	20.288	
14,800.00	7,618.00	7,811.42	7,703.05	103.89	31.08	92.72	-6,088.79	1,234.93	2,532.36	2,402.51	129.85	19.502	
14,900.00	7,618.00	7,809.60	7,701.23	105.40	31.07	92.66	-6,088.84	1,234.89	2,470.36	2,338.62	131.74	18.751	
15,000.00	7,618.00	7,807.76	7,699.39	106.92	31.07	92.61	-6,088.89	1,234.84	2,410.92	2,277.25	133.67	18.036	
15,100.00	7,618.00	7,805.90	7,697.53	108.45	31.06	92.56	-6,088.94	1,234.79	2,354.23	2,218.61	135.62	17.358	
15,200.00	7,618.00	7,804.01	7,695.64	109.99	31.06	92.50	-6,088.99	1,234.74	2,300.49	2,162.91	137.58	16.721	
15,300.00	7,618.00	7,802.10	7,693.74	111.54	31.05	92.45	-6,089.04	1,234.69	2,249.90	2,110.37	139.53	16.125	
15,400.00	7,618.00	7,800.17	7,691.80	113.09	31.05	92.39	-6,089.10	1,234.63	2,202.70	2,061.25	141.45	15.572	
15,500.00	7,618.00	7,798.21	7,689.85	114.65	31.04	92.33	-6,089.15	1,234.58	2,159.10	2,015.78	143.32	15.065	
15,600.00	7,618.00	7,796.23	7,687.87	116.21	31.04	92.27	-6,089.21	1,234.52	2,119.31	1,974.20	145.11	14.605	
15,700.00	7,618.00	7,794.22	7,685.86	117.78	31.03	92.22	-6,089.26	1,234.47	2,083.57	1,936.77	146.80	14.193	
15,800.00	7,618.00	7,792.19	7,683.83	119.36	31.03	92.16	-6,089.32	1,234.41	2,052.09	1,903.72	148.36	13.832	
15,900.00	7,618.00	7,790.13	7,681.77	120.94	31.02	92.10	-6,089.38	1,234.35	2,025.05	1,875.28	149.76	13.522	
16,000.00	7,618.00	7,788.04	7,679.69	122.53	31.02	92.04	-6,089.44	1,234.29	2,002.64	1,851.66	150.98	13.264	
16,100.00	7,618.00	7,785.93	7,677.58	124.12	31.01	91.97	-6,089.50	1,234.22	1,985.02	1,833.03	151.99	13.060	
16,200.00	7,618.00	7,783.79	7,675.44	125.72	31.00	91.91	-6,089.56	1,234.16	1,972.32	1,819.55	152.77	12.911	
16,300.00	7,618.00	7,781.63	7,673.28	127.32	31.00	91.85	-6,089.63	1,234.09	1,964.62	1,811.33	153.29	12.816	
16,400.00	7,618.00	7,780.37	7,672.02	128.93	30.99	91.81	-6,089.66	1,234.06	1,962.00	1,808.44	153.56	12.777	
16,401.50	7,618.00	7,780.32	7,671.98	128.95	30.99	91.81	-6,089.66	1,234.05	1,962.00	1,808.43	153.56	12.776	CC, ES, SF
16,500.00	7,618.00	7,777.52	7,669.17	130.54	30.99	91.73	-6,089.75	1,233.97	1,964.47	1,810.91	153.56	12.793	
16,600.00	7,618.00	7,774.69	7,666.35	132.15	30.98	91.65	-6,089.83	1,233.88	1,972.01	1,818.72	153.28	12.865	
16,700.00	7,618.00	7,771.87	7,663.54	133.77	30.97	91.56	-6,089.92	1,233.79	1,984.56	1,831.80	152.76	12.992	
16,800.00	7,618.00	7,769.08	7,660.74	135.39	30.96	91.48	-6,090.00	1,233.70	2,002.02	1,850.04	151.98	13.173	
16,900.00	7,618.00	7,766.30	7,657.96	137.01	30.96	91.40	-6,090.08	1,233.61	2,024.28	1,873.30	150.99	13.407	
17,000.00	7,618.00	7,763.53	7,655.20	138.64	30.95	91.32	-6,090.16	1,233.52	2,051.18	1,901.39	149.79	13.694	
17,100.00	7,618.00	7,760.79	7,652.46	140.27	30.94	91.24	-6,090.24	1,233.43	2,082.53	1,934.11	148.42	14.032	
17,200.00	7,618.00	7,758.06	7,649.73	141.91	30.94	91.16	-6,090.33	1,233.34	2,118.14	1,971.24	146.89	14.420	
17,300.00	7,618.00	7,755.34	7,647.02	143.55	30.93	91.08	-6,090.40	1,233.25	2,157.79	2,012.54	145.25	14.856	
17,400.00	7,618.00	7,752.64	7,644.32	145.19	30.92	91.00	-6,090.48	1,233.17	2,201.27	2,057.76	143.51	15.338	
17,500.00	7,618.00	7,749.96	7,641.64	146.83	30.91	90.92	-6,090.56	1,233.08	2,248.36	2,106.65	141.71	15.866	
17,600.00	7,618.00	7,747.29	7,638.98	148.48	30.91	90.85	-6,090.64	1,232.99	2,298.83	2,158.98	139.85	16.437	
17,700.00	7,618.00	7,744.64	7,636.33	150.13	30.90	90.77	-6,090.72	1,232.91	2,352.47	2,214.50	137.98	17.050	
17,800.00	7,618.00	7,742.00	7,633.69	151.78	30.89	90.69	-6,090.79	1,232.82	2,409.07	2,272.97	136.09	17.701	
17,900.00	7,618.00	7,739.38	7,631.07	153.43	30.89	90.62	-6,090.87	1,232.73	2,468.42	2,334.20	134.22	18.391	
18,000.00	7,618.00	7,736.78	7,628.47	155.09	30.88	90.54	-6,090.94	1,232.65	2,530.32	2,397.95	132.37	19.116	
18,100.00	7,618.00	7,734.18	7,625.88	156.75	30.87	90.46	-6,091.02	1,232.56	2,594.60	2,464.05	130.55	19.874	
18,200.00	7,618.00	7,731.61	7,623.31	158.41	30.86	90.39	-6,091.09	1,232.48	2,661.09	2,532.31	128.77	20.665	
18,300.00	7,618.00	7,729.05	7,620.75	160.07	30.86	90.31	-6,091.16	1,232.39	2,729.61	2,602.57	127.05	21.485	
18,400.00	7,618.00	7,726.50	7,618.20	161.74	30.85	90.24	-6,091.23	1,232.31	2,800.03	2,674.66	125.37	22.334	
18,500.00	7,618.00	7,723.97	7,615.67	163.41	30.84	90.17	-6,091.30	1,232.23	2,872.21	2,748.45	123.75	23.209	
18,600.00	7,618.00	7,721.45	7,613.16	165.08	30.84	90.09	-6,091.38	1,232.14	2,946.00	2,823.81	122.19	24.109	
18,700.00	7,618.00	7,718.95	7,610.66	166.75	30.83	90.02	-6,091.45	1,232.06	3,021.30	2,900.61	120.70	25.032	
18,711.30	7,618.00	7,718.66	7,610.38	166.94	30.83	90.01	-6,091.45	1,232.05	3,029.90	2,909.37	120.53	25.138	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	162.10	-5,380.84	1,738.35	5,654.67				
100.00	100.00	108.59	108.59	0.13	0.20	162.10	-5,380.64	1,738.28	5,654.48	5,654.14	0.33	N/A	
178.65	178.65	171.65	171.65	0.42	0.42	162.09	-5,380.51	1,738.41	5,654.37	5,653.53	0.84	6,748.306	
200.00	200.00	185.00	185.00	0.49	0.47	162.09	-5,380.49	1,738.47	5,654.38	5,653.42	0.96	5,881.574	
300.00	300.00	226.77	226.77	0.85	0.62	162.09	-5,380.61	1,738.94	5,655.02	5,653.55	1.47	3,853.816	
400.00	400.00	274.00	273.98	1.21	0.78	162.08	-5,381.13	1,740.09	5,656.73	5,654.74	1.99	2,839.989	
500.00	500.00	306.41	306.36	1.57	0.90	162.07	-5,381.71	1,741.30	5,659.49	5,657.02	2.47	2,294.098	
600.00	600.00	365.00	364.84	1.93	1.11	162.04	-5,383.20	1,744.47	5,663.40	5,660.36	3.03	1,866.770	
700.00	700.00	365.00	364.84	2.29	1.11	162.04	-5,383.20	1,744.47	5,668.31	5,664.91	3.39	1,670.899	
800.00	800.00	420.52	420.19	2.64	1.31	162.01	-5,385.26	1,748.39	5,674.23	5,670.28	3.95	1,435.906	
900.00	900.00	456.00	455.51	3.00	1.45	161.99	-5,386.98	1,751.24	5,681.36	5,676.92	4.44	1,280.625	
1,000.00	999.98	498.13	497.39	3.36	1.61	104.61	-5,389.31	1,755.20	5,690.00	5,685.05	4.95	1,150.196	
1,100.00	1,099.84	549.00	547.82	3.71	1.81	104.38	-5,392.37	1,761.10	5,700.56	5,695.07	5.49	1,038.834	
1,200.00	1,199.45	576.98	575.50	4.07	1.93	104.14	-5,394.22	1,764.77	5,712.97	5,707.02	5.95	960.066	
1,300.00	1,298.70	613.72	611.78	4.44	2.08	103.86	-5,396.93	1,769.85	5,727.33	5,720.88	6.45	887.281	
1,400.00	1,397.47	640.00	637.70	4.82	2.19	103.55	-5,399.06	1,773.66	5,743.62	5,736.69	6.93	828.946	
1,500.00	1,495.62	689.34	686.25	5.22	2.41	103.22	-5,403.48	1,781.19	5,761.70	5,754.18	7.52	766.381	
1,600.00	1,593.06	732.00	728.14	5.65	2.60	102.87	-5,407.73	1,788.10	5,781.61	5,773.51	8.10	713.750	
1,700.00	1,689.64	761.28	756.82	6.11	2.74	102.48	-5,410.88	1,793.10	5,803.32	5,794.66	8.66	670.173	
1,800.00	1,785.27	794.18	788.96	6.61	2.90	102.05	-5,414.65	1,799.06	5,826.85	5,817.59	9.26	628.936	
1,900.00	1,879.82	825.00	818.97	7.15	3.05	101.60	-5,418.42	1,804.96	5,852.17	5,842.28	9.90	591.401	
2,000.00	1,973.17	865.03	857.83	7.73	3.26	101.13	-5,423.60	1,813.01	5,879.18	5,868.56	10.62	553.778	
2,100.00	2,065.21	919.00	910.05	8.37	3.54	100.68	-5,431.07	1,824.43	5,907.86	5,896.42	11.45	516.185	
2,200.00	2,155.84	951.76	941.66	9.07	3.72	100.14	-5,435.80	1,831.62	5,937.96	5,925.73	12.23	485.512	
2,300.00	2,244.94	1,013.00	1,000.65	9.82	4.05	99.68	-5,444.82	1,845.36	5,969.35	5,956.15	13.20	452.164	
2,400.00	2,332.39	1,061.80	1,047.59	10.64	4.33	99.16	-5,452.24	1,856.48	6,001.97	5,987.80	14.17	423.603	
2,500.00	2,418.11	1,106.00	1,090.05	11.53	4.58	98.60	-5,459.23	1,866.56	6,035.84	6,020.67	15.17	397.793	
2,558.91	2,467.74	1,145.84	1,128.30	12.08	4.82	98.33	-5,465.71	1,875.62	6,056.35	6,040.48	15.86	381.824	
2,600.00	2,502.13	1,168.62	1,150.16	12.47	4.95	98.42	-5,469.49	1,880.78	6,070.85	6,054.52	16.32	371.901	
2,700.00	2,585.83	1,218.96	1,198.46	13.45	5.24	98.62	-5,478.05	1,892.12	6,106.61	6,089.18	17.44	350.247	
2,800.00	2,669.53	2,800.00	1,359.48	14.44	14.41	99.30	-5,506.22	1,927.93	6,142.08	6,116.25	25.82	237.839	
2,900.00	2,753.22	1,447.70	1,418.74	15.46	6.56	99.56	-5,516.43	1,940.28	6,177.47	6,157.09	20.38	303.184	
3,000.00	2,836.92	1,490.00	1,459.56	16.48	6.81	99.73	-5,523.86	1,948.54	6,213.69	6,192.22	21.47	289.398	
3,100.00	2,920.62	1,525.16	1,493.46	17.52	7.01	99.88	-5,530.32	1,955.28	6,250.78	6,228.26	22.53	277.469	
3,200.00	3,004.32	1,560.28	1,527.27	18.56	7.21	100.03	-5,537.08	1,961.90	6,288.78	6,265.19	23.58	266.656	
3,300.00	3,088.01	1,584.00	1,550.10	19.61	7.35	100.13	-5,541.82	1,966.30	6,327.69	6,303.11	24.58	257.482	
3,400.00	3,171.71	1,643.53	1,607.30	20.67	7.70	100.38	-5,554.12	1,977.24	6,367.31	6,341.55	25.76	247.184	
3,500.00	3,255.41	1,697.15	1,658.76	21.73	8.01	100.61	-5,565.59	1,987.03	6,407.69	6,380.78	26.91	238.118	
3,600.00	3,339.10	3,600.00	2,086.64	22.80	18.05	102.52	-5,652.49	2,057.18	6,447.81	6,411.58	36.23	177.963	
3,700.00	3,422.80	2,205.15	2,150.78	23.87	10.81	102.81	-5,663.47	2,066.03	6,484.09	6,452.75	31.34	206.883	
3,800.00	3,506.50	2,246.33	2,190.93	24.94	11.02	102.98	-5,670.73	2,071.63	6,521.31	6,488.88	32.43	201.109	
3,900.00	3,590.20	3,900.00	2,283.21	26.02	19.70	103.39	-5,687.42	2,084.72	6,558.85	6,518.53	40.33	162.648	
4,000.00	3,673.89	2,392.34	2,333.22	27.10	11.78	103.61	-5,696.56	2,091.76	6,596.84	6,561.92	34.92	188.916	
4,100.00	3,757.59	2,465.27	2,404.25	28.18	12.17	103.92	-5,710.04	2,101.40	6,635.52	6,599.36	36.16	183.506	
4,200.00	3,841.29	2,559.08	2,495.68	29.26	12.66	104.31	-5,727.06	2,113.65	6,674.16	6,636.65	37.51	177.936	
4,300.00	3,924.99	2,615.00	2,550.12	30.35	12.95	104.55	-5,737.30	2,121.32	6,713.31	6,674.65	38.66	173.672	
4,400.00	4,008.68	2,653.00	2,587.04	31.44	13.16	104.70	-5,744.40	2,126.80	6,753.13	6,713.43	39.70	170.088	
4,500.00	4,092.38	2,709.00	2,641.30	32.52	13.47	104.92	-5,755.25	2,135.39	6,793.80	6,752.95	40.85	166.316	
4,600.00	4,176.08	2,846.13	2,774.04	33.62	14.24	105.45	-5,780.77	2,158.47	6,834.29	6,791.81	42.48	160.879	
4,700.00	4,259.77	2,908.17	2,834.16	34.71	14.59	105.68	-5,792.26	2,168.56	6,874.86	6,831.19	43.67	157.438	
4,800.00	4,343.47	2,980.66	2,904.43	35.80	14.99	105.96	-5,805.87	2,180.10	6,915.82	6,870.91	44.91	154.001	
4,900.00	4,427.17	3,074.63	2,995.52	36.89	15.51	106.31	-5,823.54	2,194.95	6,957.00	6,910.72	46.27	150.348	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,510.87	3,147.48	3,066.20	37.99	15.91	106.59	-5,837.26	2,206.03	6,998.35	6,950.84	47.50	147.321	
5,100.00	4,594.56	3,207.31	3,124.29	39.08	16.24	106.82	-5,848.71	2,214.66	7,040.09	6,991.43	48.65	144.702	
5,200.00	4,678.26	3,259.44	3,174.83	40.18	16.53	107.02	-5,858.88	2,222.34	7,082.37	7,032.62	49.75	142.362	
5,300.00	4,761.96	3,312.17	3,225.90	41.28	16.83	107.21	-5,869.37	2,230.27	7,125.20	7,074.35	50.85	140.135	
5,400.00	4,845.66	3,365.00	3,277.02	42.37	17.12	107.41	-5,880.10	2,238.19	7,168.56	7,116.62	51.94	138.024	
5,500.00	4,929.35	3,500.28	3,407.97	43.47	17.88	107.90	-5,906.94	2,259.00	7,211.64	7,158.10	53.55	134.680	
5,600.00	5,013.05	3,553.00	3,458.93	44.57	18.18	108.09	-5,917.39	2,267.54	7,255.10	7,200.46	54.64	132.784	
5,700.00	5,096.75	3,586.46	3,491.23	45.67	18.38	108.20	-5,924.19	2,273.05	7,299.19	7,243.59	55.60	131.277	
5,800.00	5,180.45	3,618.23	3,521.85	46.77	18.56	108.32	-5,930.87	2,278.26	7,344.02	7,287.48	56.55	129.879	
5,900.00	5,264.14	3,654.14	3,556.40	47.87	18.78	108.44	-5,938.67	2,284.15	7,389.58	7,332.07	57.51	128.496	
6,000.00	5,347.84	5,664.86	5,534.54	48.97	27.05	115.68	-6,131.83	2,465.24	7,423.98	7,356.07	67.91	109.320	
6,100.00	5,431.54	5,754.97	5,624.62	50.07	27.25	116.04	-6,129.59	2,463.76	7,448.52	7,379.46	69.06	107.858	
6,200.00	5,515.23	5,845.53	5,715.13	51.17	27.44	116.40	-6,127.14	2,462.40	7,473.19	7,402.99	70.20	106.451	
6,300.00	5,598.93	5,933.76	5,803.32	52.27	27.64	116.75	-6,124.79	2,461.13	7,498.24	7,426.90	71.34	105.109	
6,400.00	5,682.63	6,044.59	5,914.10	53.38	27.88	117.18	-6,121.50	2,459.57	7,523.32	7,450.80	72.52	103.735	
6,500.00	5,766.33	6,148.67	6,018.11	54.48	28.11	117.59	-6,118.13	2,458.16	7,548.50	7,474.81	73.69	102.435	
6,600.00	5,850.02	6,264.81	6,134.16	55.58	28.38	118.04	-6,113.96	2,456.80	7,573.69	7,498.81	74.88	101.139	
6,700.00	5,933.72	6,335.35	6,204.66	56.68	28.54	118.31	-6,111.32	2,456.03	7,599.06	7,523.10	75.96	100.044	
6,800.00	6,017.42	6,409.46	6,278.71	57.79	28.72	118.59	-6,108.68	2,455.39	7,624.88	7,547.84	77.04	98.979	
6,900.00	6,101.12	6,486.49	6,355.70	58.89	28.90	118.88	-6,106.01	2,455.08	7,651.06	7,572.94	78.12	97.941	
7,000.00	6,184.81	6,553.00	6,422.17	59.99	29.06	119.13	-6,103.78	2,455.20	7,677.65	7,598.48	79.17	96.975	
7,100.00	6,268.51	6,614.53	6,483.67	61.10	29.22	119.35	-6,101.88	2,455.56	7,704.73	7,624.53	80.21	96.060	
7,200.00	6,352.21	6,685.10	6,554.20	62.20	29.40	119.61	-6,099.96	2,456.10	7,732.37	7,651.10	81.26	95.152	
7,300.00	6,435.90	6,796.27	6,665.33	63.31	29.69	120.01	-6,096.84	2,456.56	7,760.23	7,677.80	82.43	94.141	
7,400.00	6,519.60	6,920.67	6,789.66	64.41	29.99	120.47	-6,092.68	2,455.62	7,787.89	7,704.28	83.62	93.137	
7,500.00	6,603.30	6,998.86	6,867.79	65.51	30.19	120.76	-6,089.89	2,454.42	7,815.67	7,731.00	84.66	92.316	
7,600.00	6,687.00	7,077.81	6,946.67	66.62	30.38	121.05	-6,087.14	2,452.93	7,843.80	7,758.09	85.70	91.525	
7,700.00	6,770.69	7,152.06	7,020.87	67.72	30.56	121.33	-6,084.60	2,451.63	7,872.26	7,785.53	86.72	90.776	
7,800.00	6,854.39	7,223.59	7,092.36	68.83	30.74	121.59	-6,082.28	2,450.34	7,901.14	7,813.41	87.73	90.064	
7,900.00	6,938.09	7,318.68	7,187.39	69.93	30.98	121.94	-6,079.21	2,448.97	7,930.28	7,841.48	88.80	89.306	
7,933.18	6,965.86	7,337.77	7,206.46	70.30	31.03	122.00	-6,078.60	2,448.73	7,940.01	7,850.90	89.12	89.096	
7,950.00	6,980.00	7,349.30	7,217.99	70.49	31.06	119.70	-6,078.23	2,448.58	7,944.73	7,855.44	89.28	88.982	
8,000.00	7,022.68	7,384.00	7,252.67	71.01	31.15	112.18	-6,077.15	2,448.13	7,956.00	7,866.21	89.79	88.609	
8,050.00	7,066.06	7,419.02	7,287.67	71.51	31.24	103.82	-6,076.10	2,447.64	7,963.10	7,872.81	90.30	88.189	
8,100.00	7,109.82	7,454.12	7,322.75	71.97	31.33	94.93	-6,075.08	2,447.14	7,966.00	7,875.19	90.80	87.727	
8,150.00	7,153.63	7,489.13	7,357.74	72.38	31.42	86.00	-6,074.09	2,446.61	7,964.66	7,873.36	91.30	87.231	
8,200.00	7,197.14	7,524.59	7,393.19	72.74	31.51	77.54	-6,073.13	2,446.05	7,959.11	7,867.32	91.80	86.705	
8,250.00	7,240.04	7,559.57	7,428.15	73.05	31.60	69.92	-6,072.21	2,445.45	7,949.38	7,857.11	92.27	86.156	
8,300.00	7,281.99	7,589.00	7,457.56	73.31	31.68	63.32	-6,071.46	2,444.92	7,935.53	7,842.83	92.70	85.601	
8,350.00	7,322.67	7,621.98	7,490.53	73.52	31.76	57.81	-6,070.66	2,444.33	7,917.69	7,824.56	93.13	85.017	
8,400.00	7,361.77	7,649.78	7,518.32	73.68	31.83	53.28	-6,070.03	2,443.88	7,895.98	7,802.46	93.52	84.432	
8,450.00	7,399.01	7,676.27	7,544.80	73.78	31.90	49.64	-6,069.46	2,443.49	7,870.56	7,776.68	93.88	83.838	
8,500.00	7,434.08	7,721.94	7,590.46	73.85	32.03	46.89	-6,068.52	2,443.10	7,841.58	7,747.29	94.28	83.170	
8,550.00	7,466.74	7,772.08	7,640.58	73.87	32.18	44.88	-6,067.44	2,443.41	7,809.15	7,714.47	94.68	82.476	
8,600.00	7,496.72	7,818.56	7,687.04	73.85	32.31	43.53	-6,066.40	2,444.38	7,773.54	7,678.49	95.05	81.785	
8,650.00	7,523.80	7,860.82	7,729.26	73.79	32.43	42.82	-6,065.41	2,445.85	7,735.02	7,639.64	95.38	81.099	
8,700.00	7,547.77	7,902.39	7,770.78	73.70	32.56	42.83	-6,064.39	2,447.66	7,693.88	7,598.19	95.69	80.407	
8,750.00	7,568.45	7,939.04	7,807.39	73.58	32.67	43.68	-6,063.40	2,449.22	7,650.44	7,554.48	95.96	79.726	
8,800.00	7,585.69	7,968.75	7,837.05	73.43	32.76	45.67	-6,062.53	2,450.45	7,605.04	7,508.85	96.18	79.067	
8,850.00	7,599.35	7,984.52	7,852.80	73.26	32.81	49.34	-6,062.06	2,451.08	7,558.05	7,461.71	96.34	78.453	
8,900.00	7,609.33	7,995.76	7,864.03	73.07	32.84	56.36	-6,061.71	2,451.51	7,509.83	7,413.37	96.46	77.854	
8,950.00	7,615.55	8,001.95	7,870.21	72.87	32.86	70.98	-6,061.51	2,451.74	7,460.74	7,364.20	96.55	77.276	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	8,003.09	7,871.35	72.65	32.86	103.34	-6,061.48	2,451.78	7,411.16	7,314.56	96.60	76.719	
9,006.60	7,618.00	8,002.86	7,871.13	72.62	32.86	109.29	-6,061.49	2,451.77	7,404.60	7,307.99	96.61	76.647	
9,100.00	7,618.00	7,999.08	7,867.35	72.22	32.85	109.02	-6,061.60	2,451.63	7,311.74	7,215.06	96.67	75.633	
9,200.00	7,618.00	7,995.08	7,863.35	71.80	32.84	108.74	-6,061.73	2,451.48	7,212.32	7,115.58	96.75	74.548	
9,300.00	7,618.00	7,991.12	7,859.40	71.41	32.83	108.47	-6,061.85	2,451.33	7,112.93	7,016.10	96.83	73.461	
9,400.00	7,618.00	7,987.20	7,855.48	71.04	32.81	108.19	-6,061.97	2,451.18	7,013.54	6,916.64	96.91	72.375	
9,500.00	7,618.00	7,983.32	7,851.61	70.68	32.80	107.92	-6,062.09	2,451.03	6,914.18	6,817.19	96.99	71.287	
9,600.00	7,618.00	7,983.67	7,851.96	70.35	32.81	107.94	-6,062.08	2,451.05	6,814.82	6,717.73	97.09	70.188	
9,700.00	7,618.00	7,978.54	7,846.83	70.04	32.79	107.58	-6,062.24	2,450.85	6,715.49	6,618.31	97.18	69.103	
9,800.00	7,618.00	7,973.51	7,841.81	69.75	32.77	107.22	-6,062.39	2,450.64	6,616.18	6,518.91	97.27	68.018	
9,900.00	7,618.00	7,968.58	7,836.89	69.47	32.76	106.87	-6,062.54	2,450.44	6,516.89	6,419.52	97.37	66.932	
10,000.00	7,618.00	7,963.76	7,832.07	69.22	32.74	106.53	-6,062.68	2,450.25	6,417.61	6,320.15	97.46	65.846	
10,100.00	7,618.00	7,959.03	7,827.34	68.99	32.73	106.19	-6,062.82	2,450.05	6,318.36	6,220.79	97.57	64.759	
10,200.00	7,618.00	7,954.39	7,822.72	68.78	32.72	105.86	-6,062.96	2,449.86	6,219.13	6,121.45	97.68	63.671	
10,300.00	7,618.00	7,949.85	7,818.18	68.59	32.70	105.53	-6,063.09	2,449.67	6,119.92	6,022.13	97.79	62.583	
10,400.00	7,618.00	7,945.39	7,813.73	68.42	32.69	105.21	-6,063.22	2,449.49	6,020.73	5,922.82	97.91	61.494	
10,500.00	7,618.00	7,941.03	7,809.37	68.28	32.67	104.89	-6,063.34	2,449.31	5,921.57	5,823.54	98.03	60.405	
10,600.00	7,618.00	7,936.74	7,805.09	68.16	32.66	104.58	-6,063.46	2,449.13	5,822.44	5,724.28	98.16	59.316	
10,700.00	7,618.00	7,932.54	7,800.89	68.06	32.65	104.28	-6,063.58	2,448.95	5,723.33	5,625.04	98.30	58.226	
10,800.00	7,618.00	7,928.41	7,796.77	67.99	32.64	103.98	-6,063.70	2,448.78	5,624.26	5,525.82	98.44	57.136	
10,900.00	7,618.00	7,924.36	7,792.72	67.95	32.62	103.68	-6,063.81	2,448.60	5,525.21	5,426.63	98.58	56.046	
11,000.00	7,618.00	7,920.39	7,788.75	67.95	32.61	103.39	-6,063.91	2,448.44	5,426.20	5,327.46	98.74	54.955	
11,100.00	7,618.00	7,916.49	7,784.86	67.97	32.60	103.10	-6,064.02	2,448.27	5,327.22	5,228.32	98.90	53.865	
11,200.00	7,618.00	7,912.66	7,781.03	68.04	32.59	102.82	-6,064.12	2,448.10	5,228.29	5,129.22	99.07	52.774	
11,300.00	7,618.00	7,908.89	7,777.27	68.15	32.58	102.55	-6,064.22	2,447.94	5,129.38	5,030.14	99.25	51.683	
11,400.00	7,618.00	7,907.47	7,775.84	68.30	32.57	102.44	-6,064.29	2,448.10	5,030.52	4,931.09	99.43	50.591	
11,500.00	7,618.00	7,903.78	7,772.16	68.50	32.56	102.17	-6,064.38	2,447.90	4,931.71	4,832.08	99.63	49.500	
11,600.00	7,618.00	7,900.11	7,768.49	68.75	32.54	101.90	-6,064.47	2,447.70	4,832.94	4,733.10	99.83	48.410	
11,700.00	7,618.00	7,896.46	7,764.85	69.06	32.53	101.63	-6,064.55	2,447.51	4,734.22	4,634.17	100.05	47.319	
11,800.00	7,618.00	7,892.83	7,761.23	69.44	32.52	101.36	-6,064.64	2,447.32	4,635.56	4,535.28	100.27	46.229	
11,900.00	7,618.00	7,889.22	7,757.63	69.88	32.51	101.09	-6,064.73	2,447.14	4,536.95	4,436.44	100.51	45.139	
12,000.00	7,618.00	7,885.64	7,754.05	70.39	32.50	100.82	-6,064.82	2,446.96	4,438.40	4,337.64	100.76	44.050	
12,100.00	7,618.00	7,882.07	7,750.49	70.97	32.49	100.56	-6,064.90	2,446.79	4,339.92	4,238.90	101.02	42.962	
12,200.00	7,618.00	7,878.53	7,746.95	71.63	32.48	100.29	-6,064.99	2,446.62	4,241.50	4,140.21	101.29	41.874	
12,300.00	7,618.00	7,875.01	7,743.43	72.35	32.47	100.03	-6,065.07	2,446.46	4,143.16	4,041.58	101.58	40.787	
12,400.00	7,618.00	7,871.51	7,739.93	73.15	32.46	99.77	-6,065.16	2,446.30	4,044.90	3,943.02	101.89	39.700	
12,500.00	7,618.00	7,868.02	7,736.46	74.01	32.45	99.51	-6,065.24	2,446.15	3,946.73	3,844.52	102.21	38.615	
12,600.00	7,618.00	7,864.56	7,733.00	74.93	32.44	99.25	-6,065.32	2,446.00	3,848.64	3,746.10	102.55	37.531	
12,700.00	7,618.00	7,861.12	7,729.56	75.91	32.43	98.99	-6,065.40	2,445.86	3,750.66	3,647.75	102.90	36.448	
12,800.00	7,618.00	7,857.70	7,726.14	76.95	32.42	98.73	-6,065.49	2,445.72	3,652.78	3,549.49	103.28	35.366	
12,900.00	7,618.00	7,854.29	7,722.74	78.04	32.41	98.48	-6,065.57	2,445.58	3,555.02	3,451.33	103.69	34.286	
13,000.00	7,618.00	7,850.91	7,719.36	79.16	32.40	98.22	-6,065.65	2,445.45	3,457.38	3,353.26	104.11	33.207	
13,100.00	7,618.00	7,847.54	7,716.00	80.33	32.39	97.97	-6,065.72	2,445.33	3,359.88	3,255.31	104.57	32.131	
13,200.00	7,618.00	7,844.20	7,712.66	81.54	32.38	97.72	-6,065.80	2,445.20	3,262.53	3,157.48	105.05	31.056	
13,300.00	7,618.00	7,840.87	7,709.33	82.78	32.37	97.47	-6,065.88	2,445.09	3,165.34	3,059.77	105.57	29.984	
13,400.00	7,618.00	7,837.56	7,706.03	84.05	32.36	97.22	-6,065.96	2,444.97	3,068.33	2,962.21	106.12	28.914	
13,500.00	7,618.00	7,834.28	7,702.74	85.35	32.36	96.97	-6,066.03	2,444.86	2,971.51	2,864.81	106.71	27.848	
13,600.00	7,618.00	7,831.00	7,699.47	86.67	32.35	96.72	-6,066.11	2,444.76	2,874.92	2,767.58	107.34	26.784	
13,700.00	7,618.00	7,827.75	7,696.22	88.02	32.34	96.48	-6,066.18	2,444.65	2,778.55	2,670.54	108.01	25.724	
13,800.00	7,618.00	7,824.52	7,692.99	89.38	32.33	96.23	-6,066.26	2,444.55	2,682.46	2,573.71	108.74	24.668	
13,900.00	7,618.00	7,821.30	7,689.78	90.77	32.32	95.99	-6,066.33	2,444.46	2,586.65	2,477.13	109.53	23.617	
14,000.00	7,618.00	7,818.10	7,686.58	92.17	32.31	95.75	-6,066.41	2,444.37	2,491.17	2,380.80	110.37	22.571	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,618.00	7,814.92	7,683.40	93.59	32.30	95.51	-6,066.48	2,444.28	2,396.06	2,284.77	111.29	21.531	
14,200.00	7,618.00	7,811.76	7,680.24	95.02	32.29	95.27	-6,066.55	2,444.20	2,301.36	2,189.08	112.28	20.497	
14,300.00	7,618.00	7,808.62	7,677.10	96.47	32.28	95.03	-6,066.62	2,444.12	2,207.12	2,093.77	113.36	19.471	
14,400.00	7,618.00	7,805.49	7,673.97	97.93	32.27	94.79	-6,066.69	2,444.04	2,113.41	1,998.88	114.53	18.453	
14,500.00	7,618.00	7,802.38	7,670.86	99.41	32.26	94.56	-6,066.76	2,443.97	2,020.30	1,904.49	115.81	17.445	
14,600.00	7,618.00	7,799.28	7,667.77	100.89	32.26	94.32	-6,066.83	2,443.90	1,927.88	1,810.67	117.21	16.448	
14,700.00	7,618.00	7,796.21	7,664.70	102.38	32.25	94.09	-6,066.90	2,443.83	1,836.24	1,717.50	118.74	15.464	
14,800.00	7,618.00	7,793.15	7,661.64	103.89	32.24	93.86	-6,066.97	2,443.77	1,745.53	1,625.10	120.43	14.494	
14,900.00	7,618.00	7,790.10	7,658.60	105.40	32.23	93.62	-6,067.04	2,443.71	1,655.87	1,533.60	122.28	13.542	
15,000.00	7,618.00	7,787.08	7,655.57	106.92	32.22	93.39	-6,067.11	2,443.65	1,567.47	1,443.16	124.31	12.609	
15,100.00	7,618.00	7,784.06	7,652.56	108.45	32.21	93.17	-6,067.17	2,443.59	1,480.53	1,353.99	126.54	11.700	
15,200.00	7,618.00	7,781.07	7,649.57	109.99	32.20	92.94	-6,067.24	2,443.54	1,395.34	1,266.34	129.00	10.817	
15,300.00	7,618.00	7,778.09	7,646.59	111.54	32.19	92.71	-6,067.31	2,443.49	1,312.24	1,180.56	131.69	9.965	
15,400.00	7,618.00	7,775.13	7,643.63	113.09	32.19	92.49	-6,067.37	2,443.45	1,231.65	1,097.04	134.61	9.150	
15,500.00	7,618.00	7,772.18	7,640.69	114.65	32.18	92.26	-6,067.44	2,443.41	1,154.10	1,016.33	137.77	8.377	
15,600.00	7,618.00	7,769.25	7,637.76	116.21	32.17	92.04	-6,067.50	2,443.37	1,080.23	939.12	141.11	7.655	
15,700.00	7,618.00	7,766.34	7,634.84	117.78	32.16	91.82	-6,067.57	2,443.33	1,010.86	866.28	144.58	6.992	
15,800.00	7,618.00	7,763.44	7,631.94	119.36	32.15	91.60	-6,067.63	2,443.30	946.98	798.95	148.03	6.397	
15,900.00	7,618.00	7,760.56	7,629.06	120.94	32.14	91.38	-6,067.69	2,443.27	889.77	738.51	151.26	5.882	
16,000.00	7,618.00	7,757.69	7,626.19	122.53	32.14	91.16	-6,067.75	2,443.24	840.60	686.64	153.96	5.460	
16,100.00	7,618.00	7,754.83	7,623.34	124.12	32.13	90.94	-6,067.82	2,443.21	800.94	645.20	155.73	5.143	
16,200.00	7,618.00	7,752.00	7,620.50	125.72	32.12	90.72	-6,067.88	2,443.19	772.26	616.08	156.18	4.945	
16,300.00	7,618.00	7,749.17	7,617.68	127.32	32.11	90.51	-6,067.94	2,443.17	755.81	600.86	154.96	4.878	SF
16,375.72	7,618.00	7,747.04	7,615.55	128.54	32.11	90.35	-6,067.98	2,443.16	752.01	599.17	152.84	4.920	CC, ES
16,400.00	7,618.00	7,746.36	7,614.87	128.93	32.10	90.30	-6,068.00	2,443.15	752.40	600.46	151.95	4.952	
16,500.00	7,618.00	7,743.57	7,612.08	130.54	32.10	90.08	-6,068.06	2,443.14	762.21	614.89	147.32	5.174	
16,600.00	7,618.00	7,740.79	7,609.30	132.15	32.09	89.87	-6,068.12	2,443.12	784.72	643.23	141.49	5.546	
16,700.00	7,618.00	7,738.03	7,606.54	133.77	32.08	89.66	-6,068.18	2,443.11	818.91	683.88	135.03	6.065	
16,800.00	7,618.00	7,735.28	7,603.79	135.39	32.07	89.45	-6,068.24	2,443.11	863.38	734.92	128.46	6.721	
16,900.00	7,618.00	7,732.54	7,601.05	137.01	32.06	89.24	-6,068.30	2,443.10	916.64	794.46	122.18	7.502	
17,000.00	7,618.00	7,729.82	7,598.33	138.64	32.06	89.03	-6,068.35	2,443.10	977.25	860.80	116.45	8.392	
17,100.00	7,618.00	7,727.11	7,595.62	140.27	32.05	88.83	-6,068.41	2,443.10	1,043.93	932.55	111.37	9.373	
17,200.00	7,618.00	7,724.42	7,592.93	141.91	32.04	88.62	-6,068.47	2,443.10	1,115.59	1,008.61	106.99	10.427	
17,300.00	7,618.00	7,721.74	7,590.25	143.55	32.03	88.42	-6,068.52	2,443.10	1,191.35	1,088.09	103.26	11.538	
17,400.00	7,618.00	7,719.07	7,587.59	145.19	32.03	88.22	-6,068.58	2,443.11	1,270.45	1,170.33	100.12	12.689	
17,500.00	7,618.00	7,716.42	7,584.93	146.83	32.02	88.01	-6,068.64	2,443.11	1,352.32	1,254.82	97.50	13.870	
17,600.00	7,618.00	7,713.78	7,582.30	148.48	32.01	87.81	-6,068.69	2,443.12	1,436.49	1,341.16	95.33	15.069	
17,700.00	7,618.00	7,711.15	7,579.67	150.13	32.00	87.61	-6,068.75	2,443.13	1,522.57	1,429.03	93.54	16.277	
17,800.00	7,618.00	7,708.54	7,577.06	151.78	31.99	87.42	-6,068.80	2,443.15	1,610.25	1,518.18	92.07	17.490	
17,900.00	7,618.00	7,705.94	7,574.46	153.43	31.99	87.22	-6,068.85	2,443.16	1,699.29	1,608.43	90.86	18.702	
18,000.00	7,618.00	7,703.36	7,571.88	155.09	31.98	87.02	-6,068.91	2,443.18	1,789.49	1,699.61	89.88	19.911	
18,100.00	7,618.00	7,700.79	7,569.30	156.75	31.97	86.83	-6,068.96	2,443.20	1,880.67	1,791.60	89.07	21.113	
18,200.00	7,618.00	7,698.23	7,566.75	158.41	31.97	86.63	-6,069.01	2,443.22	1,972.71	1,884.29	88.43	22.309	
18,300.00	7,618.00	7,695.68	7,564.20	160.07	31.96	86.44	-6,069.07	2,443.25	2,065.49	1,977.58	87.90	23.497	
18,400.00	7,618.00	7,693.14	7,561.67	161.74	31.95	86.25	-6,069.12	2,443.27	2,158.90	2,071.42	87.48	24.678	
18,500.00	7,618.00	7,690.62	7,559.15	163.41	31.94	86.05	-6,069.17	2,443.30	2,252.88	2,165.73	87.15	25.850	
18,600.00	7,618.00	7,688.11	7,556.64	165.08	31.94	85.86	-6,069.22	2,443.33	2,347.36	2,260.47	86.89	27.015	
18,700.00	7,618.00	7,685.62	7,554.14	166.75	31.93	85.67	-6,069.27	2,443.36	2,442.28	2,355.58	86.69	28.172	
18,711.30	7,618.00	7,685.34	7,553.86	166.94	31.93	85.65	-6,069.28	2,443.36	2,453.03	2,366.35	86.67	28.302	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	148.83	-5,442.61	3,292.71	6,361.18				
100.00	100.00	59.19	59.19	0.13	0.09	148.83	-5,442.76	3,292.63	6,361.23	6,361.01	0.22	N/A	
200.00	200.00	165.00	164.99	0.49	0.44	148.84	-5,443.34	3,291.56	6,361.17	6,360.24	0.93	6,842.029	
212.30	212.30	188.32	188.30	0.54	0.52	148.84	-5,443.50	3,291.17	6,361.09	6,360.04	1.06	6,017.669	
300.00	300.00	224.14	224.12	0.85	0.65	148.85	-5,443.93	3,290.74	6,361.45	6,359.95	1.50	4,241.842	
400.00	400.00	255.00	254.98	1.21	0.76	148.85	-5,444.48	3,290.53	6,362.75	6,360.78	1.97	3,230.955	
500.00	500.00	300.76	300.72	1.57	0.92	148.86	-5,445.64	3,290.51	6,364.99	6,362.50	2.49	2,555.648	
600.00	600.00	349.00	348.93	1.93	1.10	148.86	-5,447.33	3,290.88	6,368.27	6,365.25	3.02	2,108.479	
700.00	700.00	385.06	384.96	2.29	1.23	148.87	-5,448.84	3,291.38	6,372.42	6,368.92	3.51	1,817.339	
800.00	800.00	441.00	440.82	2.64	1.43	148.87	-5,451.46	3,292.43	6,377.37	6,373.30	4.06	1,569.971	
900.00	900.00	480.25	480.00	3.00	1.57	148.87	-5,453.56	3,293.33	6,383.12	6,378.56	4.56	1,400.114	
1,000.00	999.98	536.00	535.62	3.36	1.77	91.56	-5,457.12	3,294.78	6,389.86	6,384.75	5.11	1,250.278	
1,100.00	1,099.84	536.00	535.62	3.71	1.77	91.41	-5,457.12	3,294.78	6,397.67	6,392.21	5.46	1,171.708	
1,200.00	1,199.45	588.65	588.08	4.07	1.97	91.27	-5,461.22	3,296.42	6,406.44	6,400.43	6.01	1,066.801	
1,300.00	1,298.70	623.00	622.27	4.44	2.10	91.12	-5,464.37	3,297.68	6,416.46	6,409.97	6.49	988.520	
1,400.00	1,397.47	666.96	665.97	4.82	2.27	90.96	-5,468.78	3,299.43	6,427.50	6,420.48	7.03	914.653	
1,500.00	1,495.62	711.00	709.72	5.22	2.44	90.81	-5,473.49	3,301.29	6,439.40	6,431.82	7.58	849.379	
1,600.00	1,593.06	747.04	745.49	5.65	2.59	90.62	-5,477.56	3,303.06	6,452.29	6,444.16	8.13	793.548	
1,700.00	1,689.64	798.00	795.98	6.11	2.79	90.47	-5,483.66	3,306.26	6,466.32	6,457.56	8.76	737.746	
1,800.00	1,785.27	798.00	795.98	6.61	2.79	90.16	-5,483.66	3,306.26	6,481.31	6,472.07	9.24	701.278	
1,900.00	1,879.82	853.33	850.69	7.15	3.02	90.00	-5,490.80	3,310.36	6,497.24	6,487.27	9.97	651.720	
2,000.00	1,973.17	885.00	881.96	7.73	3.16	89.76	-5,495.13	3,312.86	6,514.18	6,503.53	10.65	611.676	
2,100.00	2,065.21	918.20	914.70	8.37	3.30	89.51	-5,499.91	3,315.69	6,532.15	6,520.76	11.39	573.659	
2,200.00	2,155.84	973.00	968.58	9.07	3.54	89.33	-5,508.35	3,320.97	6,551.35	6,539.09	12.26	534.410	
2,300.00	2,244.94	975.28	970.82	9.82	3.55	88.93	-5,508.72	3,321.21	6,571.25	6,558.27	12.98	506.266	
2,400.00	2,332.39	1,050.04	1,044.20	10.64	3.89	88.83	-5,520.80	3,328.89	6,592.03	6,577.98	14.05	469.256	
2,500.00	2,418.11	1,099.28	1,092.50	11.53	4.11	88.61	-5,528.93	3,333.95	6,613.37	6,598.29	15.08	438.643	
2,558.91	2,467.74	1,129.00	1,121.62	12.08	4.25	88.49	-5,533.97	3,337.05	6,626.31	6,610.60	15.71	421.708	
2,600.00	2,502.13	1,175.52	1,167.21	12.47	4.47	88.71	-5,541.88	3,341.94	6,635.44	6,619.17	16.27	407.748	
2,700.00	2,585.83	1,358.33	1,346.68	13.45	5.32	89.59	-5,571.13	3,360.68	6,657.01	6,639.06	17.95	370.906	
2,800.00	2,669.53	1,402.20	1,389.78	14.44	5.53	89.80	-5,578.10	3,364.94	6,678.81	6,659.74	19.06	350.390	
2,900.00	2,753.22	1,457.70	1,444.26	15.46	5.79	90.06	-5,587.27	3,370.25	6,701.44	6,681.21	20.23	331.190	
3,000.00	2,836.92	1,508.00	1,493.61	16.48	6.03	90.30	-5,595.73	3,375.03	6,724.76	6,703.36	21.39	314.333	
3,100.00	2,920.62	1,558.12	1,542.74	17.52	6.27	90.54	-5,604.40	3,379.82	6,748.87	6,726.31	22.56	299.172	
3,200.00	3,004.32	1,595.00	1,578.85	18.56	6.45	90.72	-5,611.01	3,383.41	6,773.88	6,750.21	23.67	286.205	
3,300.00	3,088.01	1,651.64	1,634.25	19.61	6.73	90.99	-5,621.46	3,388.88	6,799.71	6,774.84	24.87	273.437	
3,400.00	3,171.71	1,711.22	1,692.46	20.67	7.03	91.28	-5,632.80	3,394.53	6,826.28	6,800.20	26.08	261.724	
3,500.00	3,255.41	1,822.20	1,800.90	21.73	7.58	91.80	-5,653.80	3,405.44	6,853.36	6,825.83	27.53	248.912	
3,600.00	3,339.10	2,150.35	2,122.85	22.80	9.17	93.31	-5,707.99	3,438.10	6,878.91	6,848.95	29.97	229.543	
3,700.00	3,422.80	2,206.00	2,177.60	23.87	9.43	93.56	-5,716.39	3,443.42	6,903.68	6,872.50	31.18	221.431	
3,800.00	3,506.50	2,247.52	2,218.42	24.94	9.63	93.75	-5,722.93	3,447.26	6,929.21	6,896.89	32.32	214.381	
3,900.00	3,590.20	2,293.00	2,263.10	26.02	9.85	93.96	-5,730.27	3,451.54	6,955.53	6,922.05	33.48	207.747	
4,000.00	3,673.89	2,346.54	2,315.65	27.10	10.11	94.20	-5,739.09	3,456.78	6,982.60	6,947.92	34.67	201.374	
4,100.00	3,757.59	2,503.25	2,469.53	28.18	10.87	94.90	-5,764.06	3,472.75	7,009.65	6,973.30	36.35	192.837	
4,200.00	3,841.29	2,555.00	2,520.36	29.26	11.11	95.12	-5,772.31	3,477.86	7,037.01	6,999.47	37.53	187.484	
4,300.00	3,924.99	2,555.00	2,520.36	30.35	11.11	95.12	-5,772.31	3,477.86	7,065.29	7,026.83	38.47	183.674	
4,400.00	4,008.68	2,598.72	2,563.22	31.44	11.33	95.32	-5,779.78	3,482.17	7,094.44	7,054.84	39.60	179.147	
4,500.00	4,092.38	2,643.00	2,606.51	32.52	11.55	95.52	-5,787.97	3,486.56	7,124.75	7,084.02	40.73	174.913	
4,600.00	4,176.08	2,786.86	2,747.24	33.62	12.27	96.15	-5,814.13	3,500.91	7,155.55	7,113.20	42.36	168.939	
4,700.00	4,259.77	2,863.71	2,822.53	34.71	12.66	96.48	-5,827.26	3,509.02	7,185.78	7,142.13	43.65	164.635	
4,800.00	4,343.47	2,918.32	2,875.97	35.80	12.93	96.71	-5,836.71	3,515.03	7,216.62	7,171.80	44.82	161.001	
4,900.00	4,427.17	2,972.31	2,928.78	36.89	13.20	96.94	-5,846.25	3,521.01	7,248.10	7,202.11	45.99	157.591	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,510.87	3,101.42	3,055.13	37.99	13.85	97.50	-5,869.55	3,533.74	7,279.96	7,232.42	47.54	153.134	
5,100.00	4,594.56	3,212.23	3,163.78	39.08	14.39	97.98	-5,889.00	3,543.41	7,311.40	7,262.41	48.99	149.251	
5,200.00	4,678.26	3,293.53	3,243.49	40.18	14.79	98.33	-5,903.16	3,550.92	7,343.21	7,292.93	50.28	146.034	
5,300.00	4,761.96	3,388.56	3,336.69	41.28	15.26	98.73	-5,919.54	3,559.63	7,375.20	7,323.55	51.65	142.797	
5,400.00	4,845.66	3,485.93	3,432.25	42.37	15.73	99.15	-5,936.53	3,567.32	7,407.40	7,354.38	53.02	139.714	
5,500.00	4,929.35	3,574.69	3,519.33	43.47	16.17	99.51	-5,951.32	3,576.12	7,439.74	7,385.39	54.35	136.892	
5,600.00	5,013.05	5,600.00	3,671.00	44.57	25.87	100.15	-5,976.77	3,590.87	7,472.30	7,409.04	63.26	118.120	
5,700.00	5,096.75	3,900.89	3,840.09	45.67	17.72	100.85	-6,003.02	3,604.97	7,503.62	7,445.87	57.75	129.931	
5,800.00	5,180.45	3,967.65	3,905.86	46.77	18.03	101.12	-6,012.97	3,610.55	7,535.14	7,476.18	58.96	127.808	
5,900.00	5,264.14	4,016.54	3,953.99	47.87	18.27	101.32	-6,020.33	3,615.07	7,567.26	7,507.19	60.07	125.975	
6,000.00	5,347.84	4,101.21	4,037.26	48.97	18.67	101.65	-6,033.23	3,623.34	7,599.92	7,538.55	61.36	123.850	
6,100.00	5,431.54	4,157.06	4,092.21	50.07	18.93	101.87	-6,041.74	3,628.62	7,632.83	7,570.33	62.50	122.120	
6,200.00	5,515.23	5,404.91	5,332.21	51.17	23.75	106.88	-6,152.74	3,678.95	7,658.67	7,589.85	68.82	111.290	
6,300.00	5,598.93	5,557.32	5,484.58	52.27	24.20	107.50	-6,155.62	3,677.54	7,679.56	7,609.27	70.28	109.265	
6,400.00	5,682.63	5,900.14	5,827.27	53.38	25.10	108.91	-6,155.86	3,668.88	7,699.24	7,626.97	72.27	106.533	
6,500.00	5,766.33	5,988.96	5,916.05	54.48	25.32	109.27	-6,154.29	3,666.66	7,717.61	7,644.12	73.49	105.015	
6,600.00	5,850.02	6,079.31	6,006.36	55.58	25.55	109.63	-6,152.58	3,664.59	7,736.26	7,661.55	74.71	103.550	
6,700.00	5,933.72	6,172.31	6,099.32	56.68	25.79	110.00	-6,150.66	3,662.74	7,755.18	7,679.24	75.93	102.130	
6,800.00	6,017.42	6,270.63	6,197.60	57.79	26.04	110.39	-6,148.43	3,661.09	7,774.32	7,697.15	77.17	100.743	
6,900.00	6,101.12	6,374.52	6,301.45	58.89	26.30	110.80	-6,145.82	3,659.41	7,793.60	7,715.18	78.42	99.388	
7,000.00	6,184.81	6,447.10	6,373.99	59.99	26.49	111.08	-6,143.90	3,658.33	7,813.13	7,733.56	79.57	98.191	
7,100.00	6,268.51	6,511.64	6,438.51	61.10	26.66	111.33	-6,142.31	3,657.60	7,833.19	7,752.49	80.70	97.069	
7,200.00	6,352.21	6,577.82	6,504.67	62.20	26.83	111.58	-6,140.81	3,657.09	7,853.78	7,771.95	81.82	95.985	
7,300.00	6,435.90	6,660.55	6,587.38	63.31	27.06	111.90	-6,138.97	3,656.89	7,874.78	7,791.78	83.00	94.879	
7,400.00	6,519.60	6,743.89	6,670.70	64.41	27.29	112.21	-6,137.06	3,657.21	7,896.11	7,811.94	84.17	93.811	
7,500.00	6,603.30	6,824.52	6,751.30	65.51	27.51	112.50	-6,135.19	3,657.84	7,917.76	7,832.43	85.33	92.786	
7,600.00	6,687.00	6,905.15	6,831.90	66.62	27.74	112.80	-6,133.36	3,658.55	7,939.76	7,853.27	86.49	91.797	
7,700.00	6,770.69	6,985.69	6,912.43	67.72	27.96	113.09	-6,131.56	3,659.34	7,962.09	7,874.45	87.65	90.842	
7,800.00	6,854.39	7,066.26	6,992.97	68.83	28.19	113.39	-6,129.80	3,660.21	7,984.76	7,895.96	88.80	89.921	
7,900.00	6,938.09	7,146.30	7,072.98	69.93	28.42	113.67	-6,128.08	3,661.14	8,007.76	7,917.82	89.94	89.032	
7,933.18	6,965.86	7,172.76	7,099.44	70.30	28.50	113.77	-6,127.52	3,661.47	8,015.47	7,925.15	90.32	88.745	
7,950.00	6,980.00	7,186.23	7,112.90	70.49	28.54	111.53	-6,127.24	3,661.64	8,019.15	7,928.64	90.51	88.597	
8,000.00	7,022.68	7,226.83	7,153.49	71.01	28.66	104.17	-6,126.40	3,662.16	8,027.29	7,936.21	91.09	88.129	
8,050.00	7,066.06	7,268.04	7,194.69	71.51	28.78	95.90	-6,125.55	3,662.71	8,031.21	7,939.55	91.66	87.622	
8,100.00	7,109.82	7,315.86	7,242.50	71.97	28.91	87.06	-6,124.58	3,663.27	8,030.84	7,938.60	92.24	87.062	
8,150.00	7,153.63	7,363.76	7,290.39	72.38	29.05	78.13	-6,123.59	3,663.67	8,026.18	7,933.36	92.81	86.477	
8,200.00	7,197.14	7,411.06	7,337.67	72.74	29.19	69.59	-6,122.61	3,663.88	8,017.25	7,923.89	93.36	85.873	
8,250.00	7,240.04	7,457.40	7,384.00	73.05	29.32	61.84	-6,121.64	3,663.93	8,004.12	7,910.24	93.88	85.257	
8,300.00	7,281.99	7,494.12	7,420.72	73.31	29.43	55.03	-6,120.89	3,663.92	7,986.92	7,892.58	94.34	84.658	
8,350.00	7,322.67	7,531.50	7,458.09	73.52	29.54	49.20	-6,120.13	3,663.89	7,965.78	7,871.00	94.78	84.045	
8,400.00	7,361.77	7,567.34	7,493.92	73.68	29.64	44.29	-6,119.42	3,663.83	7,940.83	7,845.65	95.18	83.429	
8,450.00	7,399.01	7,601.37	7,527.95	73.78	29.74	40.15	-6,118.76	3,663.76	7,912.28	7,816.73	95.55	82.811	
8,500.00	7,434.08	7,633.00	7,559.57	73.85	29.83	36.66	-6,118.16	3,663.69	7,880.31	7,784.44	95.87	82.194	
8,550.00	7,466.74	7,661.98	7,588.55	73.87	29.91	33.67	-6,117.62	3,663.64	7,845.17	7,749.01	96.16	81.581	
8,600.00	7,496.72	7,688.55	7,615.11	73.85	29.99	31.07	-6,117.13	3,663.62	7,807.11	7,710.70	96.42	80.973	
8,650.00	7,523.80	7,712.48	7,639.03	73.79	30.06	28.74	-6,116.69	3,663.63	7,766.41	7,669.78	96.63	80.372	
8,700.00	7,547.77	7,733.58	7,660.13	73.70	30.12	26.53	-6,116.32	3,663.65	7,723.37	7,626.56	96.81	79.779	
8,750.00	7,568.45	7,751.69	7,678.24	73.58	30.17	24.27	-6,116.00	3,663.68	7,678.30	7,581.35	96.95	79.197	
8,800.00	7,585.69	7,766.66	7,693.21	73.43	30.22	21.62	-6,115.74	3,663.71	7,631.54	7,534.48	97.06	78.628	
8,850.00	7,599.35	7,778.36	7,704.91	73.26	30.25	17.86	-6,115.53	3,663.74	7,583.44	7,486.30	97.13	78.072	
8,900.00	7,609.33	7,786.70	7,713.25	73.07	30.28	10.66	-6,115.39	3,663.77	7,534.36	7,437.18	97.18	77.533	
8,950.00	7,615.55	7,791.61	7,718.15	72.87	30.29	-12.35	-6,115.30	3,663.78	7,484.66	7,387.47	97.19	77.011	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	7,793.04	7,719.58	72.65	30.29	-96.75	-6,115.28	3,663.79	7,434.74	7,337.56	97.17	76.510	
9,006.60	7,618.00	7,792.96	7,719.51	72.62	30.29	-104.99	-6,115.28	3,663.79	7,428.15	7,330.98	97.17	76.445	
9,100.00	7,618.00	7,791.50	7,718.04	72.22	30.29	-104.82	-6,115.31	3,663.78	7,334.95	7,237.84	97.11	75.532	
9,200.00	7,618.00	7,789.93	7,716.48	71.80	30.29	-104.64	-6,115.33	3,663.78	7,235.17	7,138.13	97.04	74.555	
9,300.00	7,618.00	7,788.36	7,714.90	71.41	30.28	-104.46	-6,115.36	3,663.77	7,135.40	7,038.42	96.98	73.577	
9,400.00	7,618.00	7,786.79	7,713.33	71.04	30.28	-104.28	-6,115.39	3,663.77	7,035.63	6,938.72	96.91	72.599	
9,500.00	7,618.00	7,785.21	7,711.75	70.68	30.27	-104.10	-6,115.41	3,663.76	6,935.87	6,839.03	96.84	71.621	
9,600.00	7,618.00	7,783.63	7,710.17	70.35	30.27	-103.92	-6,115.44	3,663.76	6,836.12	6,739.35	96.77	70.642	
9,700.00	7,618.00	7,782.04	7,708.59	70.04	30.26	-103.74	-6,115.47	3,663.75	6,736.37	6,639.67	96.70	69.663	
9,800.00	7,618.00	7,780.46	7,707.00	69.75	30.26	-103.55	-6,115.50	3,663.75	6,636.63	6,540.01	96.63	68.684	
9,900.00	7,618.00	7,778.87	7,705.41	69.47	30.25	-103.37	-6,115.52	3,663.74	6,536.90	6,440.35	96.55	67.704	
10,000.00	7,618.00	7,777.27	7,703.82	69.22	30.25	-103.19	-6,115.55	3,663.74	6,437.18	6,340.70	96.47	66.724	
10,100.00	7,618.00	7,775.68	7,702.22	68.99	30.24	-103.00	-6,115.58	3,663.73	6,337.46	6,241.07	96.40	65.744	
10,200.00	7,618.00	7,774.08	7,700.62	68.78	30.24	-102.82	-6,115.61	3,663.73	6,237.75	6,141.44	96.32	64.764	
10,300.00	7,618.00	7,772.48	7,699.02	68.59	30.23	-102.63	-6,115.63	3,663.72	6,138.06	6,041.82	96.23	63.783	
10,400.00	7,618.00	7,770.87	7,697.42	68.42	30.23	-102.44	-6,115.66	3,663.72	6,038.37	5,942.22	96.15	62.802	
10,500.00	7,618.00	7,769.26	7,695.81	68.28	30.23	-102.25	-6,115.69	3,663.72	5,938.69	5,842.63	96.06	61.821	
10,600.00	7,618.00	7,767.65	7,694.19	68.16	30.22	-102.07	-6,115.72	3,663.71	5,839.02	5,743.05	95.97	60.840	
10,700.00	7,618.00	7,766.03	7,692.58	68.06	30.22	-101.88	-6,115.75	3,663.71	5,739.37	5,643.48	95.88	59.858	
10,800.00	7,618.00	7,764.41	7,690.96	67.99	30.21	-101.69	-6,115.77	3,663.70	5,639.72	5,543.93	95.79	58.876	
10,900.00	7,618.00	7,762.79	7,689.34	67.95	30.21	-101.50	-6,115.80	3,663.70	5,540.09	5,444.39	95.69	57.895	
11,000.00	7,618.00	7,761.17	7,687.71	67.95	30.20	-101.31	-6,115.83	3,663.70	5,440.47	5,344.87	95.59	56.913	
11,100.00	7,618.00	7,759.54	7,686.09	67.97	30.20	-101.12	-6,115.86	3,663.69	5,340.86	5,245.37	95.49	55.931	
11,200.00	7,618.00	7,757.91	7,684.45	68.04	30.19	-100.92	-6,115.89	3,663.69	5,241.27	5,145.88	95.39	54.948	
11,300.00	7,618.00	7,756.27	7,682.82	68.15	30.19	-100.73	-6,115.92	3,663.69	5,141.69	5,046.42	95.28	53.966	
11,400.00	7,618.00	7,754.63	7,681.18	68.30	30.18	-100.54	-6,115.95	3,663.68	5,042.13	4,946.97	95.16	52.984	
11,500.00	7,618.00	7,752.99	7,679.54	68.50	30.18	-100.34	-6,115.97	3,663.68	4,942.59	4,847.54	95.05	52.001	
11,600.00	7,618.00	7,751.35	7,677.89	68.75	30.17	-100.15	-6,116.00	3,663.68	4,843.06	4,748.14	94.93	51.019	
11,700.00	7,618.00	7,749.70	7,676.25	69.06	30.17	-99.95	-6,116.03	3,663.67	4,743.56	4,648.75	94.80	50.036	
11,800.00	7,618.00	7,748.05	7,674.60	69.44	30.16	-99.76	-6,116.06	3,663.67	4,644.07	4,549.40	94.67	49.054	
11,900.00	7,618.00	7,746.39	7,672.94	69.88	30.16	-99.56	-6,116.09	3,663.67	4,544.61	4,450.07	94.54	48.071	
12,000.00	7,618.00	7,744.73	7,671.28	70.39	30.15	-99.36	-6,116.12	3,663.66	4,445.17	4,350.77	94.40	47.088	
12,100.00	7,618.00	7,743.07	7,669.62	70.97	30.15	-99.17	-6,116.15	3,663.66	4,345.75	4,251.50	94.26	46.106	
12,200.00	7,618.00	7,741.41	7,667.96	71.63	30.14	-98.97	-6,116.18	3,663.66	4,246.37	4,152.26	94.11	45.123	
12,300.00	7,618.00	7,739.74	7,666.29	72.35	30.14	-98.77	-6,116.21	3,663.66	4,147.01	4,053.06	93.95	44.140	
12,400.00	7,618.00	7,738.07	7,664.62	73.15	30.13	-98.57	-6,116.24	3,663.65	4,047.68	3,953.89	93.79	43.158	
12,500.00	7,618.00	7,736.39	7,662.94	74.01	30.13	-98.37	-6,116.27	3,663.65	3,948.38	3,854.77	93.62	42.175	
12,600.00	7,618.00	7,734.71	7,661.26	74.93	30.12	-98.17	-6,116.30	3,663.65	3,849.13	3,755.68	93.44	41.193	
12,700.00	7,618.00	7,733.03	7,659.58	75.91	30.12	-97.97	-6,116.33	3,663.65	3,749.90	3,656.65	93.26	40.210	
12,800.00	7,618.00	7,731.34	7,657.90	76.95	30.11	-97.76	-6,116.36	3,663.64	3,650.73	3,557.66	93.06	39.228	
12,900.00	7,618.00	7,729.66	7,656.21	78.04	30.11	-97.56	-6,116.39	3,663.64	3,551.59	3,458.73	92.86	38.246	
13,000.00	7,618.00	7,727.96	7,654.52	79.16	30.10	-97.36	-6,116.42	3,663.64	3,452.51	3,359.86	92.65	37.264	
13,100.00	7,618.00	7,726.27	7,652.82	80.33	30.10	-97.15	-6,116.45	3,663.64	3,353.47	3,261.05	92.43	36.282	
13,200.00	7,618.00	7,724.57	7,651.12	81.54	30.09	-96.95	-6,116.48	3,663.64	3,254.50	3,162.31	92.20	35.300	
13,300.00	7,618.00	7,722.86	7,649.42	82.78	30.09	-96.74	-6,116.51	3,663.64	3,155.59	3,063.64	91.95	34.318	
13,400.00	7,618.00	7,721.16	7,647.71	84.05	30.08	-96.54	-6,116.54	3,663.63	3,056.75	2,965.06	91.69	33.336	
13,500.00	7,618.00	7,719.45	7,646.00	85.35	30.08	-96.33	-6,116.57	3,663.63	2,957.99	2,866.57	91.42	32.354	
13,600.00	7,618.00	7,717.73	7,644.29	86.67	30.07	-96.12	-6,116.60	3,663.63	2,859.31	2,768.17	91.14	31.373	
13,700.00	7,618.00	7,716.02	7,642.57	88.02	30.07	-95.92	-6,116.63	3,663.63	2,760.73	2,669.89	90.84	30.391	
13,800.00	7,618.00	7,714.30	7,640.85	89.38	30.06	-95.71	-6,116.66	3,663.63	2,662.25	2,571.72	90.53	29.409	
13,900.00	7,618.00	7,712.57	7,639.13	90.77	30.06	-95.50	-6,116.69	3,663.63	2,563.89	2,473.69	90.19	28.426	
14,000.00	7,618.00	7,710.85	7,637.40	92.17	30.05	-95.29	-6,116.72	3,663.63	2,465.66	2,375.81	89.84	27.444	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,618.00	7,709.12	7,635.67	93.59	30.05	-95.08	-6,116.76	3,663.63	2,367.57	2,278.10	89.48	26.461	
14,200.00	7,618.00	7,707.38	7,633.94	95.02	30.04	-94.87	-6,116.79	3,663.62	2,269.65	2,180.56	89.09	25.477	
14,300.00	7,618.00	7,705.64	7,632.20	96.47	30.04	-94.66	-6,116.82	3,663.62	2,171.92	2,083.24	88.68	24.491	
14,400.00	7,618.00	7,703.90	7,630.46	97.93	30.03	-94.45	-6,116.85	3,663.62	2,074.40	1,986.15	88.25	23.505	
14,500.00	7,618.00	7,702.15	7,628.71	99.41	30.03	-94.24	-6,116.88	3,663.62	1,977.13	1,889.32	87.81	22.516	
14,600.00	7,618.00	7,700.41	7,626.96	100.89	30.02	-94.02	-6,116.91	3,663.62	1,880.15	1,792.80	87.35	21.524	
14,700.00	7,618.00	7,698.65	7,625.21	102.38	30.02	-93.81	-6,116.94	3,663.62	1,783.50	1,696.62	86.88	20.529	
14,800.00	7,618.00	7,696.90	7,623.45	103.89	30.01	-93.60	-6,116.98	3,663.62	1,687.23	1,600.83	86.40	19.528	
14,900.00	7,618.00	7,695.14	7,621.69	105.40	30.01	-93.38	-6,117.01	3,663.62	1,591.42	1,505.50	85.93	18.521	
15,000.00	7,618.00	7,693.37	7,619.93	106.92	30.00	-93.17	-6,117.04	3,663.62	1,496.16	1,410.69	85.48	17.504	
15,100.00	7,618.00	7,691.61	7,618.16	108.45	30.00	-92.95	-6,117.07	3,663.62	1,401.56	1,316.49	85.07	16.475	
15,200.00	7,618.00	7,689.83	7,616.39	109.99	29.99	-92.74	-6,117.11	3,663.62	1,307.76	1,223.00	84.76	15.429	
15,300.00	7,618.00	7,688.06	7,614.62	111.54	29.99	-92.52	-6,117.14	3,663.62	1,214.94	1,130.34	84.60	14.361	
15,400.00	7,618.00	7,686.28	7,612.84	113.09	29.98	-92.30	-6,117.17	3,663.62	1,123.36	1,038.68	84.68	13.265	
15,500.00	7,618.00	7,684.50	7,611.06	114.65	29.98	-92.08	-6,117.20	3,663.62	1,033.33	948.18	85.16	12.135	
15,600.00	7,618.00	7,682.71	7,609.27	116.21	29.97	-91.87	-6,117.24	3,663.62	945.31	859.09	86.22	10.964	
15,700.00	7,618.00	7,680.92	7,607.48	117.78	29.97	-91.65	-6,117.27	3,663.63	859.91	771.73	88.18	9.751	
15,800.00	7,618.00	7,679.13	7,605.69	119.36	29.96	-91.43	-6,117.30	3,663.63	777.99	686.55	91.44	8.508	
15,900.00	7,618.00	7,677.33	7,603.89	120.94	29.96	-91.21	-6,117.33	3,663.63	700.78	604.30	96.48	7.264	
16,000.00	7,618.00	7,675.53	7,602.09	122.53	29.95	-90.99	-6,117.37	3,663.63	630.00	526.20	103.79	6.070	
16,100.00	7,618.00	7,673.73	7,600.29	124.12	29.95	-90.77	-6,117.40	3,663.63	568.07	454.37	113.69	4.996	
16,200.00	7,618.00	7,671.92	7,598.48	125.72	29.94	-90.55	-6,117.43	3,663.63	518.17	392.26	125.91	4.116	
16,300.00	7,618.00	7,670.10	7,596.67	127.32	29.94	-90.33	-6,117.47	3,663.63	484.03	344.92	139.11	3.479	
16,400.00	7,618.00	7,668.29	7,594.85	128.93	29.93	-90.10	-6,117.50	3,663.63	469.12	318.20	150.92	3.108	
16,421.11	7,618.00	7,667.90	7,594.47	129.27	29.93	-90.06	-6,117.51	3,663.63	468.64	315.66	152.98	3.063	CC, ES
16,500.00	7,618.00	7,666.47	7,593.03	130.54	29.93	-89.88	-6,117.53	3,663.64	475.23	316.36	158.88	2.991	SF
16,600.00	7,618.00	7,664.64	7,591.21	132.15	29.92	-89.66	-6,117.57	3,663.64	501.61	339.60	162.02	3.096	
16,700.00	7,618.00	7,662.82	7,589.38	133.77	29.91	-89.43	-6,117.60	3,663.64	545.33	384.13	161.20	3.383	
16,800.00	7,618.00	7,660.98	7,587.55	135.39	29.91	-89.21	-6,117.64	3,663.64	602.61	444.59	158.02	3.813	
16,900.00	7,618.00	7,659.15	7,585.71	137.01	29.90	-88.99	-6,117.67	3,663.64	669.99	516.14	153.85	4.355	
17,000.00	7,618.00	7,657.31	7,583.87	138.64	29.90	-88.76	-6,117.70	3,663.65	744.73	595.24	149.50	4.982	
17,100.00	7,618.00	7,655.46	7,582.03	140.27	29.89	-88.54	-6,117.74	3,663.65	824.84	679.46	145.38	5.674	
17,200.00	7,618.00	7,653.62	7,580.18	141.91	29.89	-88.31	-6,117.77	3,663.65	908.90	767.24	141.66	6.416	
17,300.00	7,618.00	7,651.76	7,578.33	143.55	29.88	-88.08	-6,117.81	3,663.65	995.90	857.55	138.35	7.198	
17,400.00	7,618.00	7,649.91	7,576.47	145.19	29.88	-87.86	-6,117.84	3,663.66	1,085.14	949.69	135.45	8.011	
17,500.00	7,618.00	7,648.05	7,574.62	146.83	29.87	-87.63	-6,117.88	3,663.66	1,176.11	1,043.20	132.91	8.849	
17,600.00	7,618.00	7,646.19	7,572.75	148.48	29.87	-87.40	-6,117.91	3,663.66	1,268.44	1,137.75	130.69	9.706	
17,700.00	7,618.00	7,644.32	7,570.89	150.13	29.86	-87.18	-6,117.95	3,663.67	1,361.85	1,233.12	128.73	10.579	
17,800.00	7,618.00	7,642.45	7,569.01	151.78	29.86	-86.95	-6,117.98	3,663.67	1,456.13	1,329.13	127.00	11.465	
17,900.00	7,618.00	7,640.57	7,567.14	153.43	29.85	-86.72	-6,118.02	3,663.67	1,551.13	1,425.66	125.47	12.362	
18,000.00	7,618.00	7,639.18	7,565.75	155.09	29.84	-86.55	-6,118.04	3,663.67	1,646.71	1,522.61	124.10	13.269	
18,100.00	7,618.00	7,637.25	7,563.82	156.75	29.84	-86.32	-6,118.08	3,663.67	1,742.80	1,619.91	122.89	14.182	
18,200.00	7,618.00	7,635.32	7,561.88	158.41	29.83	-86.08	-6,118.12	3,663.68	1,839.29	1,717.50	121.79	15.102	
18,300.00	7,618.00	7,633.38	7,559.95	160.07	29.83	-85.84	-6,118.15	3,663.68	1,936.14	1,815.33	120.81	16.026	
18,400.00	7,618.00	7,631.44	7,558.00	161.74	29.82	-85.61	-6,118.19	3,663.69	2,033.30	1,913.38	119.92	16.955	
18,500.00	7,618.00	7,629.49	7,556.06	163.41	29.82	-85.37	-6,118.23	3,663.69	2,130.71	2,011.60	119.11	17.888	
18,600.00	7,618.00	7,627.54	7,554.11	165.08	29.81	-85.14	-6,118.26	3,663.70	2,228.35	2,109.98	118.38	18.824	
18,700.00	7,618.00	7,625.58	7,552.15	166.75	29.81	-84.90	-6,118.30	3,663.70	2,326.20	2,208.49	117.70	19.763	
18,711.30	7,618.00	7,625.36	7,551.93	166.94	29.81	-84.87	-6,118.30	3,663.70	2,337.27	2,219.63	117.63	19.869	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	161.40	-5,370.64	1,806.97	5,666.49				
100.00	100.00	65.78	65.78	0.13	0.10	161.41	-5,370.76	1,806.92	5,666.60	5,666.37	0.24	N/A	
200.00	200.00	172.71	172.71	0.49	0.42	161.41	-5,371.22	1,806.78	5,666.97	5,666.07	0.91	6,236.912	
300.00	300.00	320.06	320.06	0.85	0.93	161.41	-5,370.96	1,806.64	5,666.79	5,665.01	1.78	3,188.606	
400.00	400.00	420.09	420.09	1.21	1.27	161.41	-5,370.34	1,806.67	5,666.21	5,663.73	2.48	2,283.608	
500.00	500.00	570.84	570.83	1.57	1.80	161.40	-5,368.77	1,807.23	5,665.45	5,662.08	3.37	1,680.975	
600.00	600.00	668.63	668.59	1.93	2.15	161.38	-5,366.77	1,807.98	5,663.76	5,659.68	4.08	1,389.693	
700.00	700.00	754.15	754.10	2.29	2.45	161.37	-5,365.33	1,808.69	5,662.43	5,657.69	4.74	1,195.020	
800.00	800.00	845.37	845.30	2.64	2.78	161.36	-5,363.94	1,809.48	5,661.26	5,655.84	5.42	1,044.133	
900.00	900.00	923.37	923.29	3.00	3.06	161.35	-5,362.85	1,810.35	5,660.31	5,654.25	6.06	934.292	
944.24	944.23	949.69	949.61	3.16	3.15	104.16	-5,362.59	1,810.70	5,660.16	5,653.85	6.31	897.171	
1,000.00	999.98	982.87	982.78	3.36	3.27	104.16	-5,362.36	1,811.19	5,660.40	5,653.78	6.62	854.454	
1,100.00	1,099.84	1,059.40	1,059.30	3.71	3.54	104.15	-5,362.14	1,812.51	5,661.95	5,654.70	7.25	781.037	
1,200.00	1,199.45	1,160.68	1,160.56	4.07	3.90	104.17	-5,362.01	1,814.49	5,664.59	5,656.62	7.97	710.978	
1,300.00	1,298.70	1,281.85	1,281.73	4.44	4.33	104.24	-5,361.82	1,815.89	5,667.82	5,659.06	8.77	646.533	
1,400.00	1,397.47	1,373.57	1,373.44	4.82	4.65	104.30	-5,361.74	1,816.23	5,671.76	5,662.29	9.47	598.946	
1,500.00	1,495.62	1,478.52	1,478.39	5.22	5.01	104.40	-5,361.88	1,816.24	5,676.71	5,666.48	10.23	554.940	
1,600.00	1,593.06	1,601.22	1,601.09	5.65	5.43	104.56	-5,361.68	1,816.11	5,682.28	5,671.21	11.08	512.975	
1,700.00	1,689.64	1,694.14	1,694.01	6.11	5.75	104.67	-5,361.35	1,815.94	5,688.63	5,676.77	11.86	479.757	
1,800.00	1,785.27	1,782.74	1,782.61	6.61	6.06	104.79	-5,361.22	1,815.50	5,696.07	5,683.42	12.65	450.169	
1,900.00	1,879.82	1,926.55	1,926.40	7.15	6.56	105.10	-5,360.69	1,813.70	5,704.14	5,690.46	13.68	416.989	
2,000.00	1,973.17	2,005.60	2,005.45	7.73	6.83	105.21	-5,360.27	1,812.44	5,713.10	5,698.57	14.53	393.280	
2,100.00	2,065.21	2,097.50	2,097.32	8.37	7.15	105.38	-5,359.97	1,810.74	5,723.32	5,707.86	15.47	370.049	
2,200.00	2,155.84	2,191.19	2,190.99	9.07	7.48	105.56	-5,359.68	1,808.79	5,734.72	5,718.26	16.46	348.326	
2,300.00	2,244.94	2,280.98	2,280.77	9.82	7.79	105.72	-5,359.36	1,806.95	5,747.34	5,729.84	17.50	328.393	
2,400.00	2,332.39	2,375.09	2,374.86	10.64	8.12	105.91	-5,358.98	1,804.93	5,761.22	5,742.61	18.61	309.570	
2,500.00	2,418.11	2,488.19	2,487.91	11.53	8.52	106.20	-5,358.35	1,801.89	5,776.23	5,756.39	19.84	291.085	
2,558.91	2,467.74	2,528.97	2,528.67	12.08	8.66	106.24	-5,358.08	1,800.56	5,785.62	5,765.11	20.50	282.157	
2,600.00	2,502.13	2,553.26	2,552.95	12.47	8.75	106.38	-5,357.94	1,799.86	5,792.45	5,771.49	20.96	276.364	
2,700.00	2,585.83	2,600.00	2,599.68	13.45	8.91	106.63	-5,357.74	1,798.72	5,809.68	5,787.64	22.03	263.666	
2,800.00	2,669.53	2,661.98	2,661.64	14.44	9.13	106.97	-5,357.73	1,797.47	5,827.78	5,804.60	23.17	251.472	
2,900.00	2,753.22	2,730.41	2,730.06	15.46	9.37	107.34	-5,358.09	1,796.25	5,846.79	5,822.45	24.35	240.146	
3,000.00	2,836.92	2,949.57	2,949.19	16.48	10.14	108.49	-5,356.68	1,793.29	5,865.59	5,839.52	26.07	224.982	
3,100.00	2,920.62	3,055.40	3,054.99	17.52	10.52	109.04	-5,354.14	1,792.43	5,883.31	5,855.91	27.39	214.771	
3,200.00	3,004.32	3,124.49	3,124.05	18.56	10.77	109.40	-5,352.57	1,791.58	5,901.54	5,872.95	28.59	206.449	
3,300.00	3,088.01	3,183.27	3,182.81	19.61	10.98	109.70	-5,351.49	1,790.65	5,920.53	5,890.79	29.74	199.066	
3,400.00	3,171.71	3,238.28	3,237.80	20.67	11.17	109.99	-5,350.78	1,789.52	5,940.34	5,909.45	30.88	192.358	
3,500.00	3,255.41	3,300.00	3,299.50	21.73	11.39	110.32	-5,350.41	1,787.68	5,961.02	5,928.98	32.04	186.032	
3,600.00	3,339.10	3,415.26	3,414.67	22.80	11.80	110.93	-5,349.74	1,783.41	5,982.16	5,948.76	33.40	179.121	
3,700.00	3,422.80	3,474.11	3,473.49	23.87	12.01	111.24	-5,349.35	1,781.16	6,003.62	5,969.08	34.54	173.803	
3,800.00	3,506.50	3,559.60	3,558.91	24.94	12.31	111.69	-5,348.88	1,778.02	6,025.67	5,989.89	35.78	168.400	
3,900.00	3,590.20	3,650.01	3,649.27	26.02	12.64	112.16	-5,348.15	1,775.22	6,048.03	6,010.99	37.04	163.301	
4,000.00	3,673.89	3,733.23	3,732.47	27.10	12.93	112.59	-5,347.34	1,773.29	6,070.78	6,032.52	38.26	158.672	
4,100.00	3,757.59	3,810.81	3,810.03	28.18	13.21	112.98	-5,346.59	1,771.72	6,093.99	6,054.54	39.46	154.444	
4,200.00	3,841.29	3,877.95	3,877.16	29.26	13.45	113.31	-5,345.98	1,771.23	6,117.78	6,077.17	40.61	150.652	
4,300.00	3,924.99	3,971.74	3,970.95	30.35	13.77	113.76	-5,345.10	1,771.87	6,142.06	6,100.20	41.85	146.751	
4,400.00	4,008.68	4,058.77	4,057.97	31.44	14.08	114.17	-5,344.14	1,772.12	6,166.53	6,123.46	43.07	143.175	
4,500.00	4,092.38	4,149.77	4,148.96	32.52	14.40	114.61	-5,343.19	1,771.73	6,191.39	6,147.10	44.30	139.768	
4,600.00	4,176.08	4,293.77	4,292.94	33.62	14.92	115.30	-5,341.06	1,769.99	6,216.28	6,170.56	45.72	135.964	
4,700.00	4,259.77	4,445.44	4,444.52	34.71	15.46	116.03	-5,336.84	1,767.09	6,240.21	6,193.05	47.16	132.316	
4,800.00	4,343.47	4,524.66	4,523.70	35.80	15.74	116.40	-5,334.40	1,766.51	6,264.49	6,216.16	48.33	129.622	
4,900.00	4,427.17	4,687.03	4,685.97	36.89	16.32	117.15	-5,328.58	1,766.31	6,288.86	6,239.07	49.80	126.293	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,510.87	4,810.96	4,809.75	37.99	16.76	117.72	-5,322.69	1,765.65	6,312.43	6,261.31	51.11	123.497	
5,100.00	4,594.56	4,873.54	4,872.25	39.08	16.98	118.01	-5,319.70	1,764.94	6,336.35	6,284.14	52.20	121.376	
5,200.00	4,678.26	4,933.18	4,931.83	40.18	17.20	118.28	-5,317.07	1,764.14	6,360.93	6,307.65	53.28	119.394	
5,300.00	4,761.96	4,990.59	4,989.19	41.28	17.40	118.54	-5,314.78	1,763.28	6,386.22	6,331.89	54.33	117.538	
5,400.00	4,845.66	5,027.51	5,026.09	42.37	17.53	118.71	-5,313.50	1,762.66	6,412.33	6,357.03	55.30	115.946	
5,500.00	4,929.35	5,060.21	5,058.77	43.47	17.65	118.86	-5,312.63	1,762.05	6,439.46	6,383.21	56.25	114.481	
5,600.00	5,013.05	5,100.00	5,098.54	44.57	17.79	119.05	-5,311.93	1,761.21	6,467.61	6,410.40	57.21	113.050	
5,700.00	5,096.75	5,153.41	5,151.93	45.67	17.98	119.29	-5,311.28	1,760.10	6,496.60	6,438.39	58.21	111.597	
5,800.00	5,180.45	5,219.51	5,218.02	46.77	18.22	119.59	-5,310.62	1,758.94	6,526.15	6,466.89	59.26	110.126	
5,900.00	5,264.14	5,279.77	5,278.28	47.87	18.43	119.86	-5,310.23	1,758.62	6,556.29	6,496.02	60.27	108.773	
6,000.00	5,347.84	5,369.83	5,368.34	48.97	18.74	120.24	-5,309.85	1,759.29	6,586.92	6,525.53	61.40	107.279	
6,100.00	5,431.54	5,467.86	5,466.36	50.07	19.08	120.66	-5,309.22	1,760.04	6,617.65	6,555.10	62.55	105.791	
6,200.00	5,515.23	5,584.82	5,583.31	51.17	19.50	121.16	-5,308.05	1,759.43	6,648.44	6,584.66	63.78	104.240	
6,300.00	5,598.93	5,656.49	5,654.97	52.27	19.75	121.47	-5,307.11	1,758.33	6,679.32	6,614.50	64.82	103.049	
6,400.00	5,682.63	5,736.67	5,735.12	53.38	20.04	121.83	-5,306.23	1,756.33	6,710.72	6,644.84	65.88	101.865	
6,500.00	5,766.33	5,829.11	5,827.52	54.48	20.37	122.23	-5,305.00	1,754.17	6,742.24	6,675.26	66.98	100.655	
6,600.00	5,850.02	5,892.32	5,890.71	55.58	20.60	122.50	-5,304.27	1,752.72	6,774.22	6,706.26	67.96	99.673	
6,700.00	5,933.72	5,990.31	5,988.68	56.68	20.95	122.92	-5,303.24	1,750.95	6,806.56	6,737.48	69.08	98.531	
6,800.00	6,017.42	6,179.06	6,177.39	57.79	21.62	123.69	-5,299.83	1,750.25	6,838.51	6,767.95	70.56	96.915	
6,900.00	6,101.12	6,247.35	6,245.66	58.89	21.86	123.97	-5,298.07	1,750.30	6,870.02	6,798.47	71.55	96.015	
7,000.00	6,184.81	6,300.00	6,298.30	59.99	22.05	124.18	-5,296.94	1,750.15	6,902.19	6,829.72	72.47	95.243	
7,100.00	6,268.51	6,439.79	6,438.04	61.10	22.55	124.74	-5,293.41	1,749.60	6,934.21	6,860.48	73.73	94.044	
7,200.00	6,352.21	6,500.00	6,498.23	62.20	22.76	124.97	-5,291.91	1,750.03	6,966.55	6,891.88	74.67	93.294	
7,300.00	6,435.90	6,552.29	6,550.51	63.31	22.94	125.17	-5,290.87	1,750.75	6,999.49	6,923.92	75.57	92.623	
7,400.00	6,519.60	6,609.90	6,608.10	64.41	23.14	125.39	-5,290.07	1,751.73	7,033.11	6,956.63	76.48	91.957	
7,500.00	6,603.30	6,737.05	6,735.20	65.51	23.58	125.86	-5,287.72	1,754.53	7,066.41	6,988.73	77.68	90.968	
7,600.00	6,687.00	6,800.00	6,798.14	66.62	23.80	126.09	-5,286.73	1,755.17	7,100.39	7,021.79	78.60	90.331	
7,700.00	6,770.69	6,838.36	6,836.50	67.72	23.94	126.24	-5,286.28	1,755.32	7,134.96	7,055.54	79.42	89.843	
7,800.00	6,854.39	6,912.59	6,910.72	68.83	24.20	126.51	-5,285.58	1,755.82	7,170.03	7,089.65	80.37	89.209	
7,900.00	6,938.09	7,035.75	7,033.86	69.93	24.63	126.96	-5,284.09	1,757.25	7,205.01	7,123.47	81.53	88.369	
7,933.18	6,965.86	7,062.26	7,060.37	70.30	24.72	127.06	-5,283.74	1,757.67	7,216.63	7,134.77	81.86	88.162	
7,950.00	6,980.00	7,075.77	7,073.88	70.49	24.77	124.70	-5,283.57	1,757.90	7,222.30	7,140.28	82.02	88.055	
8,000.00	7,022.68	7,117.90	7,116.00	71.01	24.92	117.06	-5,283.04	1,758.66	7,236.47	7,153.94	82.52	87.688	
8,050.00	7,066.06	7,162.57	7,160.66	71.51	25.07	108.63	-5,282.47	1,759.36	7,246.51	7,163.46	83.05	87.258	
8,100.00	7,109.82	7,207.41	7,205.49	71.97	25.23	99.71	-5,281.86	1,759.91	7,252.36	7,168.78	83.57	86.779	
8,150.00	7,153.63	7,234.05	7,232.12	72.38	25.32	90.73	-5,281.53	1,760.19	7,254.04	7,170.02	84.02	86.339	
8,200.00	7,197.14	7,263.02	7,261.09	72.74	25.42	82.25	-5,281.23	1,760.48	7,251.58	7,167.11	84.47	85.852	
8,250.00	7,240.04	7,300.00	7,298.07	73.05	25.55	74.67	-5,280.92	1,760.83	7,245.00	7,160.06	84.94	85.299	
8,300.00	7,281.99	7,330.41	7,328.47	73.31	25.66	68.15	-5,280.71	1,761.09	7,234.31	7,148.94	85.36	84.747	
8,350.00	7,322.67	7,372.59	7,370.66	73.52	25.81	62.79	-5,280.39	1,761.41	7,219.54	7,133.72	85.83	84.119	
8,400.00	7,361.77	7,411.59	7,409.65	73.68	25.94	58.47	-5,280.08	1,761.68	7,200.81	7,114.55	86.26	83.482	
8,450.00	7,399.01	7,445.77	7,443.83	73.78	26.06	55.07	-5,279.83	1,761.93	7,178.27	7,091.62	86.65	82.846	
8,500.00	7,434.08	7,478.01	7,476.07	73.85	26.18	52.52	-5,279.61	1,762.19	7,152.08	7,065.07	87.01	82.199	
8,550.00	7,466.74	7,508.55	7,506.60	73.87	26.28	50.72	-5,279.42	1,762.47	7,122.45	7,035.10	87.35	81.543	
8,600.00	7,496.72	7,537.86	7,535.91	73.85	26.38	49.66	-5,279.24	1,762.76	7,089.58	7,001.92	87.66	80.878	
8,650.00	7,523.80	7,564.32	7,562.38	73.79	26.48	49.30	-5,279.08	1,763.03	7,053.71	6,965.77	87.94	80.211	
8,700.00	7,547.77	7,587.74	7,585.79	73.70	26.56	49.70	-5,278.95	1,763.28	7,015.10	6,926.91	88.19	79.546	
8,750.00	7,568.45	7,607.91	7,605.96	73.58	26.63	50.97	-5,278.84	1,763.50	6,974.04	6,885.63	88.41	78.883	
8,800.00	7,585.69	7,614.99	7,613.03	73.43	26.65	53.23	-5,278.81	1,763.58	6,930.85	6,842.29	88.56	78.265	
8,850.00	7,599.35	7,623.08	7,621.13	73.26	26.68	57.04	-5,278.78	1,763.66	6,885.83	6,797.14	88.69	77.636	
8,900.00	7,609.33	7,629.00	7,627.04	73.07	26.70	63.14	-5,278.76	1,763.73	6,839.31	6,750.50	88.81	77.010	
8,950.00	7,615.55	7,632.67	7,630.72	72.87	26.71	72.93	-5,278.75	1,763.77	6,791.62	6,702.71	88.91	76.390	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	7,634.07	7,632.11	72.65	26.72	88.58	-5,278.75	1,763.78	6,743.11	6,654.13	88.98	75.778	
9,006.60	7,618.00	7,634.08	7,632.13	72.62	26.72	91.20	-5,278.75	1,763.78	6,736.67	6,647.67	88.99	75.698	
9,100.00	7,618.00	7,633.95	7,632.00	72.22	26.72	91.20	-5,278.75	1,763.78	6,645.44	6,556.32	89.12	74.567	
9,200.00	7,618.00	7,633.81	7,631.86	71.80	26.72	91.19	-5,278.75	1,763.78	6,547.83	6,458.57	89.26	73.357	
9,300.00	7,618.00	7,633.67	7,631.72	71.41	26.72	91.19	-5,278.75	1,763.78	6,450.30	6,360.89	89.41	72.146	
9,400.00	7,618.00	7,633.53	7,631.58	71.04	26.72	91.18	-5,278.75	1,763.77	6,352.84	6,263.28	89.56	70.935	
9,500.00	7,618.00	7,633.39	7,631.43	70.68	26.72	91.18	-5,278.75	1,763.77	6,255.47	6,165.75	89.72	69.725	
9,600.00	7,618.00	7,633.24	7,631.29	70.35	26.71	91.17	-5,278.75	1,763.77	6,158.17	6,068.29	89.88	68.515	
9,700.00	7,618.00	7,633.09	7,631.14	70.04	26.71	91.16	-5,278.75	1,763.77	6,060.97	5,970.91	90.05	67.304	
9,800.00	7,618.00	7,632.95	7,630.99	69.75	26.71	91.16	-5,278.75	1,763.77	5,963.85	5,873.62	90.23	66.094	
9,900.00	7,618.00	7,632.79	7,630.84	69.47	26.71	91.15	-5,278.75	1,763.77	5,866.84	5,776.42	90.42	64.885	
10,000.00	7,618.00	7,632.64	7,630.69	69.22	26.71	91.15	-5,278.75	1,763.77	5,769.93	5,679.31	90.61	63.676	
10,100.00	7,618.00	7,632.49	7,630.53	68.99	26.71	91.14	-5,278.75	1,763.76	5,673.12	5,582.30	90.82	62.467	
10,200.00	7,618.00	7,632.33	7,630.38	68.78	26.71	91.13	-5,278.75	1,763.76	5,576.43	5,485.40	91.03	61.259	
10,300.00	7,618.00	7,632.17	7,630.22	68.59	26.71	91.13	-5,278.75	1,763.76	5,479.85	5,388.60	91.25	60.051	
10,400.00	7,618.00	7,632.01	7,630.06	68.42	26.71	91.12	-5,278.75	1,763.76	5,383.40	5,291.92	91.48	58.845	
10,500.00	7,618.00	7,631.85	7,629.90	68.28	26.71	91.11	-5,278.76	1,763.76	5,287.08	5,195.36	91.73	57.639	
10,600.00	7,618.00	7,631.68	7,629.73	68.16	26.71	91.11	-5,278.76	1,763.76	5,190.90	5,098.92	91.98	56.434	
10,700.00	7,618.00	7,631.52	7,629.56	68.06	26.71	91.10	-5,278.76	1,763.75	5,094.87	5,002.63	92.25	55.231	
10,800.00	7,618.00	7,631.35	7,629.40	67.99	26.71	91.09	-5,278.76	1,763.75	4,999.00	4,906.47	92.52	54.029	
10,900.00	7,618.00	7,631.18	7,629.22	67.95	26.71	91.09	-5,278.76	1,763.75	4,903.28	4,810.47	92.82	52.828	
11,000.00	7,618.00	7,631.00	7,629.05	67.95	26.71	91.08	-5,278.76	1,763.75	4,807.75	4,714.63	93.12	51.629	
11,100.00	7,618.00	7,630.83	7,628.87	67.97	26.71	91.07	-5,278.76	1,763.75	4,712.40	4,618.95	93.44	50.431	
11,200.00	7,618.00	7,630.65	7,628.70	68.04	26.71	91.07	-5,278.76	1,763.74	4,617.24	4,523.46	93.78	49.236	
11,300.00	7,618.00	7,630.47	7,628.52	68.15	26.71	91.06	-5,278.76	1,763.74	4,522.30	4,428.16	94.13	48.043	
11,400.00	7,618.00	7,630.29	7,628.33	68.30	26.70	91.05	-5,278.76	1,763.74	4,427.57	4,333.07	94.50	46.852	
11,500.00	7,618.00	7,630.10	7,628.15	68.50	26.70	91.04	-5,278.76	1,763.74	4,333.09	4,238.20	94.89	45.664	
11,600.00	7,618.00	7,629.91	7,627.96	68.75	26.70	91.04	-5,278.76	1,763.74	4,238.85	4,143.55	95.30	44.479	
11,700.00	7,618.00	7,629.72	7,627.77	69.06	26.70	91.03	-5,278.76	1,763.73	4,144.89	4,049.16	95.73	43.297	
11,800.00	7,618.00	7,629.53	7,627.57	69.44	26.70	91.02	-5,278.76	1,763.73	4,051.22	3,955.03	96.19	42.118	
11,900.00	7,618.00	7,629.33	7,627.38	69.88	26.70	91.01	-5,278.76	1,763.73	3,957.85	3,861.19	96.67	40.944	
12,000.00	7,618.00	7,629.13	7,627.18	70.39	26.70	91.01	-5,278.76	1,763.73	3,864.82	3,767.65	97.17	39.773	
12,100.00	7,618.00	7,628.93	7,626.98	70.97	26.70	91.00	-5,278.76	1,763.73	3,772.14	3,674.44	97.70	38.608	
12,200.00	7,618.00	7,628.73	7,626.77	71.63	26.70	90.99	-5,278.76	1,763.72	3,679.85	3,581.58	98.27	37.447	
12,300.00	7,618.00	7,628.52	7,626.56	72.35	26.70	90.98	-5,278.76	1,763.72	3,587.97	3,489.11	98.86	36.293	
12,400.00	7,618.00	7,628.31	7,626.35	73.15	26.70	90.97	-5,278.76	1,763.72	3,496.54	3,397.05	99.49	35.144	
12,500.00	7,618.00	7,628.09	7,626.14	74.01	26.70	90.96	-5,278.77	1,763.72	3,405.59	3,305.43	100.16	34.002	
12,600.00	7,618.00	7,627.88	7,625.92	74.93	26.70	90.96	-5,278.77	1,763.71	3,315.15	3,214.29	100.86	32.868	
12,700.00	7,618.00	7,627.66	7,625.70	75.91	26.70	90.95	-5,278.77	1,763.71	3,225.29	3,123.68	101.61	31.742	
12,800.00	7,618.00	7,627.43	7,625.48	76.95	26.69	90.94	-5,278.77	1,763.71	3,136.04	3,033.64	102.40	30.625	
12,900.00	7,618.00	7,627.21	7,625.25	78.04	26.69	90.93	-5,278.77	1,763.71	3,047.45	2,944.21	103.24	29.518	
13,000.00	7,618.00	7,626.97	7,625.02	79.16	26.69	90.92	-5,278.77	1,763.70	2,959.59	2,855.47	104.13	28.422	
13,100.00	7,618.00	7,626.74	7,624.79	80.33	26.69	90.91	-5,278.77	1,763.70	2,872.53	2,767.46	105.07	27.338	
13,200.00	7,618.00	7,626.50	7,624.55	81.54	26.69	90.90	-5,278.77	1,763.70	2,786.34	2,680.26	106.07	26.268	
13,300.00	7,618.00	7,626.26	7,624.31	82.78	26.69	90.89	-5,278.77	1,763.70	2,701.09	2,593.96	107.14	25.212	
13,400.00	7,618.00	7,626.02	7,624.06	84.05	26.69	90.88	-5,278.77	1,763.69	2,616.90	2,508.63	108.26	24.172	
13,500.00	7,618.00	7,625.77	7,623.81	85.35	26.69	90.87	-5,278.77	1,763.69	2,533.85	2,424.39	109.46	23.149	
13,600.00	7,618.00	7,625.51	7,623.56	86.67	26.69	90.86	-5,278.77	1,763.69	2,452.06	2,341.34	110.72	22.147	
13,700.00	7,618.00	7,625.26	7,623.30	88.02	26.69	90.85	-5,278.77	1,763.69	2,371.68	2,259.62	112.06	21.165	
13,800.00	7,618.00	7,624.99	7,623.04	89.38	26.69	90.84	-5,278.77	1,763.68	2,292.83	2,179.37	113.47	20.207	
13,900.00	7,618.00	7,624.73	7,622.78	90.77	26.69	90.83	-5,278.78	1,763.68	2,215.70	2,100.75	114.95	19.275	
14,000.00	7,618.00	7,624.46	7,622.51	92.17	26.68	90.82	-5,278.78	1,763.68	2,140.46	2,023.95	116.51	18.371	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,618.00	7,624.18	7,622.23	93.59	26.68	90.81	-5,278.78	1,763.67	2,067.32	1,949.17	118.14	17.499	
14,200.00	7,618.00	7,623.90	7,621.95	95.02	26.68	90.80	-5,278.78	1,763.67	1,996.51	1,876.67	119.84	16.660	
14,300.00	7,618.00	7,623.62	7,621.67	96.47	26.68	90.79	-5,278.78	1,763.67	1,928.28	1,806.69	121.59	15.858	
14,400.00	7,618.00	7,623.33	7,621.38	97.93	26.68	90.77	-5,278.78	1,763.67	1,862.93	1,739.54	123.39	15.098	
14,500.00	7,618.00	7,623.04	7,621.08	99.41	26.68	90.76	-5,278.78	1,763.66	1,800.76	1,675.54	125.22	14.381	
14,600.00	7,618.00	7,622.74	7,620.79	100.89	26.68	90.75	-5,278.78	1,763.66	1,742.12	1,615.07	127.05	13.712	
14,700.00	7,618.00	7,622.43	7,620.48	102.38	26.68	90.74	-5,278.78	1,763.66	1,687.37	1,558.51	128.86	13.095	
14,800.00	7,618.00	7,622.12	7,620.17	103.89	26.68	90.73	-5,278.78	1,763.65	1,636.90	1,506.30	130.60	12.534	
14,900.00	7,618.00	7,621.81	7,619.86	105.40	26.68	90.71	-5,278.78	1,763.65	1,591.12	1,458.88	132.24	12.032	
15,000.00	7,618.00	7,621.49	7,619.53	106.92	26.67	90.70	-5,278.79	1,763.65	1,550.45	1,416.73	133.73	11.594	
15,100.00	7,618.00	7,621.16	7,619.21	108.45	26.67	90.69	-5,278.79	1,763.64	1,515.30	1,380.29	135.01	11.224	
15,200.00	7,618.00	7,620.83	7,618.87	109.99	26.67	90.67	-5,278.79	1,763.64	1,486.06	1,350.03	136.03	10.925	
15,300.00	7,618.00	7,620.49	7,618.54	111.54	26.67	90.66	-5,278.79	1,763.63	1,463.08	1,326.34	136.74	10.700	
15,400.00	7,618.00	7,620.14	7,618.19	113.09	26.67	90.65	-5,278.79	1,763.63	1,446.66	1,309.57	137.10	10.552	
15,500.00	7,618.00	7,619.79	7,617.84	114.65	26.67	90.63	-5,278.79	1,763.63	1,437.04	1,299.96	137.07	10.484	SF
15,588.84	7,618.00	7,619.47	7,617.52	116.04	26.67	90.62	-5,278.79	1,763.62	1,434.29	1,297.57	136.71	10.491	CC, ES
15,600.00	7,618.00	7,619.43	7,617.48	116.21	26.67	90.62	-5,278.79	1,763.62	1,434.33	1,297.68	136.65	10.497	
15,700.00	7,618.00	7,619.07	7,617.11	117.78	26.67	90.60	-5,278.79	1,763.62	1,438.59	1,302.76	135.83	10.591	
15,800.00	7,618.00	7,618.69	7,616.74	119.36	26.66	90.59	-5,278.80	1,763.62	1,449.75	1,315.11	134.63	10.768	
15,900.00	7,618.00	7,618.31	7,616.36	120.94	26.66	90.57	-5,278.80	1,763.61	1,467.65	1,334.55	133.10	11.026	
16,000.00	7,618.00	7,617.93	7,615.97	122.53	26.66	90.56	-5,278.80	1,763.61	1,492.06	1,360.76	131.29	11.364	
16,100.00	7,618.00	7,617.53	7,615.58	124.12	26.66	90.54	-5,278.80	1,763.60	1,522.65	1,393.39	129.25	11.780	
16,200.00	7,618.00	7,617.13	7,615.17	125.72	26.66	90.53	-5,278.80	1,763.60	1,559.07	1,432.01	127.05	12.271	
16,300.00	7,618.00	7,616.71	7,614.76	127.32	26.66	90.51	-5,278.80	1,763.59	1,600.91	1,476.17	124.75	12.833	
16,400.00	7,618.00	7,616.29	7,614.34	128.93	26.66	90.49	-5,278.80	1,763.59	1,647.77	1,525.38	122.39	13.463	
16,500.00	7,618.00	7,615.86	7,613.91	130.54	26.66	90.48	-5,278.81	1,763.58	1,699.23	1,579.20	120.03	14.157	
16,600.00	7,618.00	7,615.43	7,613.47	132.15	26.65	90.46	-5,278.81	1,763.58	1,754.88	1,637.18	117.70	14.910	
16,700.00	7,618.00	7,614.98	7,613.03	133.77	26.65	90.44	-5,278.81	1,763.58	1,814.34	1,698.90	115.44	15.717	
16,800.00	7,618.00	7,614.52	7,612.57	135.39	26.65	90.42	-5,278.81	1,763.57	1,877.25	1,763.99	113.26	16.575	
16,900.00	7,618.00	7,614.05	7,612.10	137.01	26.65	90.40	-5,278.81	1,763.56	1,943.27	1,832.08	111.18	17.478	
17,000.00	7,618.00	7,613.58	7,611.62	138.64	26.65	90.38	-5,278.82	1,763.56	2,012.09	1,902.87	109.22	18.422	
17,100.00	7,618.00	7,613.09	7,611.14	140.27	26.65	90.36	-5,278.82	1,763.55	2,083.45	1,976.07	107.37	19.404	
17,200.00	7,618.00	7,612.59	7,610.64	141.91	26.64	90.34	-5,278.82	1,763.55	2,157.08	2,051.43	105.64	20.418	
17,300.00	7,618.00	7,612.08	7,610.13	143.55	26.64	90.32	-5,278.82	1,763.54	2,232.76	2,128.72	104.03	21.462	
17,400.00	7,618.00	7,611.55	7,609.60	145.19	26.64	90.30	-5,278.82	1,763.54	2,310.29	2,207.75	102.53	22.532	
17,500.00	7,618.00	7,611.02	7,609.07	146.83	26.64	90.28	-5,278.83	1,763.53	2,389.49	2,288.34	101.14	23.625	
17,600.00	7,618.00	7,610.47	7,608.52	148.48	26.64	90.26	-5,278.83	1,763.53	2,470.20	2,370.34	99.86	24.737	
17,700.00	7,618.00	7,609.91	7,607.96	150.13	26.63	90.24	-5,278.83	1,763.52	2,552.27	2,453.60	98.67	25.867	
17,800.00	7,618.00	7,609.34	7,607.39	151.78	26.63	90.22	-5,278.83	1,763.51	2,635.59	2,538.01	97.57	27.011	
17,900.00	7,618.00	7,608.75	7,606.80	153.43	26.63	90.19	-5,278.84	1,763.51	2,720.03	2,623.46	96.56	28.168	
18,000.00	7,618.00	7,608.15	7,606.19	155.09	26.63	90.17	-5,278.84	1,763.50	2,805.49	2,709.85	95.63	29.336	
18,100.00	7,618.00	7,607.53	7,605.58	156.75	26.63	90.14	-5,278.84	1,763.49	2,891.88	2,797.11	94.78	30.512	
18,200.00	7,618.00	7,606.89	7,604.94	158.41	26.62	90.12	-5,278.85	1,763.49	2,979.13	2,885.14	93.99	31.697	
18,300.00	7,618.00	7,606.24	7,604.29	160.07	26.62	90.09	-5,278.85	1,763.48	3,067.15	2,973.89	93.26	32.887	
18,400.00	7,618.00	7,605.58	7,603.63	161.74	26.62	90.06	-5,278.85	1,763.47	3,155.89	3,063.30	92.60	34.082	
18,500.00	7,618.00	7,604.89	7,602.94	163.41	26.62	90.04	-5,278.86	1,763.46	3,245.28	3,153.30	91.98	35.282	
18,600.00	7,618.00	7,604.19	7,602.24	165.08	26.62	90.01	-5,278.86	1,763.46	3,335.28	3,243.86	91.42	36.484	
18,700.00	7,618.00	7,603.47	7,601.52	166.75	26.61	89.98	-5,278.86	1,763.45	3,425.83	3,334.93	90.90	37.689	
18,711.30	7,618.00	7,603.38	7,601.43	166.94	26.61	89.98	-5,278.86	1,763.45	3,436.10	3,345.26	90.84	37.825	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	134.51	-5,617.76	5,714.19	8,013.24				
100.00	100.00	71.00	71.00	0.13	0.55	134.51	-5,617.76	5,714.19	8,013.19	8,012.51	0.68	N/A	
200.00	200.00	171.00	171.00	0.49	2.01	134.51	-5,617.76	5,714.19	8,013.19	8,010.69	2.50	3,205.239	
300.00	300.00	271.00	271.00	0.85	3.75	134.51	-5,617.76	5,714.19	8,013.19	8,008.58	4.60	1,740.548	
400.00	400.00	371.00	371.00	1.21	5.50	134.51	-5,617.76	5,714.19	8,013.19	8,006.48	6.71	1,194.638	
500.00	500.00	471.00	471.00	1.57	7.24	134.51	-5,617.76	5,714.19	8,013.19	8,004.38	8.81	909.408	
600.00	600.00	571.00	571.00	1.93	8.99	134.51	-5,617.76	5,714.19	8,013.19	8,002.27	10.92	734.129	
700.00	700.00	671.00	671.00	2.29	10.73	134.51	-5,617.76	5,714.19	8,013.19	8,000.17	13.02	615.498	
800.00	800.00	771.00	771.00	2.64	12.48	134.51	-5,617.76	5,714.19	8,013.19	7,998.06	15.12	529.873	
900.00	900.00	871.00	871.00	3.00	14.22	134.51	-5,617.76	5,714.19	8,013.19	7,995.96	17.23	465.163	
1,000.00	999.98	970.98	970.98	3.36	15.97	77.34	-5,617.76	5,714.19	8,012.80	7,993.48	19.33	414.610	
1,100.00	1,099.84	1,070.84	1,070.84	3.71	17.71	77.40	-5,617.76	5,714.19	8,011.66	7,990.24	21.42	373.996	
1,200.00	1,199.45	1,170.45	1,170.45	4.07	19.45	77.50	-5,617.76	5,714.19	8,009.76	7,986.24	23.52	340.576	
1,300.00	1,298.70	1,269.70	1,269.70	4.44	21.18	77.63	-5,617.76	5,714.19	8,007.11	7,981.50	25.62	312.567	
1,400.00	1,397.47	1,368.47	1,368.47	4.82	22.91	77.81	-5,617.76	5,714.19	8,003.75	7,976.03	27.72	288.720	
1,500.00	1,495.62	1,466.62	1,466.62	5.22	24.62	78.02	-5,617.76	5,714.19	7,999.68	7,969.85	29.83	268.140	
1,600.00	1,593.06	1,564.06	1,564.06	5.65	26.32	78.27	-5,617.76	5,714.19	7,994.94	7,962.98	31.96	250.168	
1,700.00	1,689.64	1,660.64	1,660.64	6.11	28.01	78.55	-5,617.76	5,714.19	7,989.56	7,955.47	34.10	234.310	
1,800.00	1,785.27	1,756.27	1,756.27	6.61	29.68	78.86	-5,617.76	5,714.19	7,983.59	7,947.33	36.26	220.192	
1,900.00	1,879.82	1,850.82	1,850.82	7.15	31.33	79.21	-5,617.76	5,714.19	7,977.05	7,938.61	38.44	207.523	
2,000.00	1,973.17	1,944.17	1,944.17	7.73	32.95	79.58	-5,617.76	5,714.19	7,970.00	7,929.36	40.65	196.078	
2,100.00	2,065.21	2,036.21	2,036.21	8.37	34.56	79.99	-5,617.76	5,714.19	7,962.50	7,919.61	42.88	185.677	
2,200.00	2,155.84	2,126.84	2,126.84	9.07	36.14	80.42	-5,617.76	5,714.19	7,954.59	7,909.43	45.15	176.176	
2,300.00	2,244.94	2,215.94	2,215.94	9.82	37.70	80.87	-5,617.76	5,714.19	7,946.33	7,898.88	47.45	167.460	
2,400.00	2,332.39	2,303.39	2,303.39	10.64	39.22	81.34	-5,617.76	5,714.19	7,937.79	7,888.00	49.79	159.434	
2,500.00	2,418.11	2,389.11	2,389.11	11.53	40.72	81.83	-5,617.76	5,714.19	7,929.03	7,876.87	52.16	152.020	
2,558.91	2,467.74	2,438.74	2,438.74	12.08	41.59	82.13	-5,617.76	5,714.19	7,923.80	7,870.23	53.57	147.915	
2,600.00	2,502.13	2,473.13	2,473.13	12.47	42.19	82.26	-5,617.76	5,714.19	7,920.16	7,865.60	54.56	145.160	
2,700.00	2,585.83	2,556.83	2,556.83	13.45	43.65	82.59	-5,617.76	5,714.19	7,911.58	7,854.58	56.99	138.814	
2,800.00	2,669.53	2,640.53	2,640.53	14.44	45.11	82.92	-5,617.76	5,714.19	7,903.36	7,843.92	59.45	132.947	
2,900.00	2,753.22	2,724.22	2,724.22	15.46	46.57	83.25	-5,617.76	5,714.19	7,895.52	7,833.60	61.92	127.515	
3,000.00	2,836.92	2,807.92	2,807.92	16.48	48.03	83.58	-5,617.76	5,714.19	7,888.05	7,823.64	64.40	122.480	
3,100.00	2,920.62	2,908.38	2,891.62	17.52	49.78	83.92	-5,617.76	5,714.19	7,880.95	7,813.75	67.19	117.290	
3,200.00	3,004.32	2,975.32	2,975.32	18.56	50.95	84.25	-5,617.76	5,714.19	7,874.22	7,804.81	69.41	113.452	
3,300.00	3,088.01	3,059.01	3,059.01	19.61	52.41	84.58	-5,617.76	5,714.19	7,867.87	7,795.95	71.92	109.396	
3,400.00	3,171.71	3,142.71	3,142.71	20.67	53.87	84.91	-5,617.76	5,714.19	7,861.90	7,787.45	74.44	105.609	
3,500.00	3,255.41	3,226.41	3,226.41	21.73	55.33	85.25	-5,617.76	5,714.19	7,856.30	7,779.33	76.97	102.068	
3,600.00	3,339.10	3,310.10	3,310.10	22.80	56.79	85.58	-5,617.76	5,714.19	7,851.08	7,771.57	79.50	98.750	
3,700.00	3,422.80	3,406.20	3,393.80	23.87	58.47	85.91	-5,617.76	5,714.19	7,846.23	7,763.97	82.26	95.384	
3,800.00	3,506.50	3,477.50	3,477.50	24.94	59.72	86.25	-5,617.76	5,714.19	7,841.77	7,757.18	84.58	92.709	
3,900.00	3,590.20	3,561.20	3,561.20	26.02	61.18	86.58	-5,617.76	5,714.19	7,837.69	7,750.56	87.13	89.954	
4,000.00	3,673.89	3,644.89	3,644.89	27.10	62.64	86.92	-5,617.76	5,714.19	7,833.98	7,744.30	89.68	87.357	
4,100.00	3,757.59	3,728.59	3,728.59	28.18	64.10	87.25	-5,617.76	5,714.19	7,830.66	7,738.43	92.23	84.905	
4,200.00	3,841.29	3,812.29	3,812.29	29.26	65.56	87.59	-5,617.76	5,714.19	7,827.72	7,732.94	94.78	82.587	
4,300.00	3,924.99	3,904.01	3,895.99	30.35	67.16	87.92	-5,617.76	5,714.19	7,825.16	7,727.68	97.48	80.278	
4,400.00	4,008.68	3,979.68	3,979.68	31.44	68.48	88.26	-5,617.76	5,714.19	7,822.98	7,723.09	99.89	78.316	
4,500.00	4,092.38	4,063.38	4,063.38	32.52	69.94	88.59	-5,617.76	5,714.19	7,821.18	7,718.73	102.45	76.344	
4,600.00	4,176.08	4,147.08	4,147.08	33.62	71.40	88.93	-5,617.76	5,714.19	7,819.77	7,714.76	105.00	74.471	
4,700.00	4,259.77	4,230.77	4,230.77	34.71	72.86	89.26	-5,617.76	5,714.19	7,818.74	7,711.18	107.56	72.691	
4,800.00	4,343.47	4,314.47	4,314.47	35.80	74.32	89.60	-5,617.76	5,714.19	7,818.09	7,707.97	110.12	70.997	
4,900.00	4,427.17	4,401.83	4,398.17	36.89	75.85	89.94	-5,617.76	5,714.19	7,817.82	7,705.08	112.74	69.344	
4,919.14	4,443.19	4,414.19	4,414.19	37.10	76.06	90.00	-5,617.76	5,714.19	7,817.82	7,704.65	113.17	69.083	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,510.87	4,481.87	4,481.87	37.99	77.25	90.27	-5,617.76	5,714.19	7,817.94	7,702.71	115.23	67.845	
5,100.00	4,594.56	4,565.56	4,565.56	39.08	78.71	90.61	-5,617.76	5,714.19	7,818.44	7,700.65	117.79	66.376	
5,200.00	4,678.26	4,649.26	4,649.26	40.18	80.17	90.94	-5,617.76	5,714.19	7,819.33	7,698.98	120.35	64.974	
5,300.00	4,761.96	4,732.96	4,732.96	41.28	81.63	91.28	-5,617.76	5,714.19	7,820.59	7,697.69	122.90	63.634	
5,400.00	4,845.66	4,816.66	4,816.66	42.37	83.09	91.61	-5,617.76	5,714.19	7,822.24	7,696.79	125.45	62.351	
5,500.00	4,929.35	4,900.35	4,900.35	43.47	84.55	91.95	-5,617.76	5,714.19	7,824.28	7,696.27	128.01	61.124	
5,600.00	5,013.05	4,984.05	4,984.05	44.57	86.01	92.28	-5,617.76	5,714.19	7,826.69	7,696.13	130.56	59.948	
5,700.00	5,096.75	5,067.75	5,067.75	45.67	87.47	92.62	-5,617.76	5,714.19	7,829.49	7,696.38	133.11	58.821	
5,800.00	5,180.45	5,151.45	5,151.45	46.77	88.93	92.95	-5,617.76	5,714.19	7,832.66	7,697.01	135.66	57.739	
5,900.00	5,264.14	5,235.14	5,235.14	47.87	90.39	93.29	-5,617.76	5,714.19	7,836.22	7,698.02	138.20	56.702	
6,000.00	5,347.84	5,318.84	5,318.84	48.97	91.85	93.62	-5,617.76	5,714.19	7,840.16	7,699.42	140.74	55.705	
6,100.00	5,431.54	5,402.54	5,402.54	50.07	93.31	93.96	-5,617.76	5,714.19	7,844.48	7,701.19	143.29	54.747	
6,200.00	5,515.23	5,486.23	5,486.23	51.17	94.78	94.29	-5,617.76	5,714.19	7,849.18	7,703.35	145.82	53.826	
6,300.00	5,598.93	5,569.93	5,569.93	52.27	96.24	94.63	-5,617.76	5,714.19	7,854.25	7,705.89	148.36	52.940	
6,400.00	5,682.63	5,653.63	5,653.63	53.38	97.70	94.96	-5,617.76	5,714.19	7,859.71	7,708.81	150.89	52.087	
6,500.00	5,766.33	5,737.33	5,737.33	54.48	99.16	95.29	-5,617.76	5,714.19	7,865.54	7,712.11	153.43	51.266	
6,600.00	5,850.02	5,821.02	5,821.02	55.58	100.62	95.62	-5,617.76	5,714.19	7,871.74	7,715.79	155.95	50.475	
6,700.00	5,933.72	5,904.72	5,904.72	56.68	102.08	95.96	-5,617.76	5,714.19	7,878.33	7,719.85	158.48	49.713	
6,800.00	6,017.42	5,988.42	5,988.42	57.79	103.54	96.29	-5,617.76	5,714.19	7,885.28	7,724.28	161.00	48.977	
6,900.00	6,101.12	6,072.12	6,072.12	58.89	105.00	96.62	-5,617.76	5,714.19	7,892.61	7,729.10	163.52	48.268	
7,000.00	6,184.81	6,155.81	6,155.81	59.99	106.46	96.95	-5,617.76	5,714.19	7,900.32	7,734.28	166.03	47.583	
7,100.00	6,268.51	6,239.51	6,239.51	61.10	107.92	97.28	-5,617.76	5,714.19	7,908.39	7,739.85	168.54	46.922	
7,200.00	6,352.21	6,323.21	6,323.21	62.20	109.38	97.61	-5,617.76	5,714.19	7,916.83	7,745.78	171.05	46.284	
7,300.00	6,435.90	6,406.90	6,406.90	63.31	110.84	97.94	-5,617.76	5,714.19	7,925.64	7,752.09	173.55	45.667	
7,400.00	6,519.60	6,509.40	6,490.60	64.41	112.63	98.27	-5,617.76	5,714.19	7,934.82	7,758.44	176.38	44.987	
7,500.00	6,603.30	6,574.30	6,574.30	65.51	113.77	98.60	-5,617.76	5,714.19	7,944.37	7,765.82	178.55	44.494	
7,600.00	6,687.00	6,658.00	6,658.00	66.62	115.23	98.93	-5,617.76	5,714.19	7,954.28	7,773.24	181.04	43.937	
7,700.00	6,770.69	6,741.69	6,741.69	67.72	116.69	99.25	-5,617.76	5,714.19	7,964.56	7,781.03	183.53	43.397	
7,800.00	6,854.39	6,825.39	6,825.39	68.83	118.15	99.58	-5,617.76	5,714.19	7,975.19	7,789.18	186.01	42.875	
7,900.00	6,938.09	6,909.09	6,909.09	69.93	119.61	99.91	-5,617.76	5,714.19	7,986.19	7,797.70	188.49	42.370	
7,933.18	6,965.86	6,936.86	6,936.86	70.30	120.09	100.01	-5,617.76	5,714.19	7,989.92	7,800.61	189.31	42.206	
7,950.00	6,980.00	6,951.00	6,951.00	70.49	120.34	97.80	-5,617.76	5,714.19	7,991.59	7,801.87	189.73	42.122	
8,000.00	7,022.68	7,006.32	6,993.68	71.01	121.31	90.47	-5,617.76	5,714.19	7,993.86	7,802.68	191.19	41.812	
8,050.00	7,066.06	7,037.06	7,037.06	71.51	121.84	82.12	-5,617.76	5,714.19	7,992.07	7,799.87	192.20	41.582	
8,100.00	7,109.82	7,080.82	7,080.82	71.97	122.61	73.09	-5,617.76	5,714.19	7,986.21	7,792.80	193.41	41.291	
8,150.00	7,153.63	7,124.63	7,124.63	72.38	123.37	63.86	-5,617.76	5,714.19	7,976.33	7,781.73	194.60	40.989	
8,200.00	7,197.14	7,168.14	7,168.14	72.74	124.13	54.91	-5,617.76	5,714.19	7,962.48	7,766.74	195.74	40.679	
8,250.00	7,240.04	7,211.04	7,211.04	73.05	124.88	46.61	-5,617.76	5,714.19	7,944.76	7,747.92	196.84	40.362	
8,300.00	7,281.99	7,252.99	7,252.99	73.31	125.61	39.12	-5,617.76	5,714.19	7,923.29	7,725.41	197.87	40.042	
8,350.00	7,322.67	7,306.33	7,293.67	73.52	126.54	32.43	-5,617.76	5,714.19	7,898.21	7,699.15	199.07	39.676	
8,400.00	7,361.77	7,332.77	7,332.77	73.68	127.00	26.43	-5,617.76	5,714.19	7,869.72	7,669.97	199.75	39.398	
8,450.00	7,399.01	7,370.01	7,370.01	73.78	127.65	20.92	-5,617.76	5,714.19	7,838.01	7,637.44	200.58	39.077	
8,500.00	7,434.08	7,405.08	7,405.08	73.85	128.27	15.70	-5,617.76	5,714.19	7,803.32	7,602.00	201.33	38.760	
8,550.00	7,466.74	7,437.74	7,437.74	73.87	128.84	10.51	-5,617.76	5,714.19	7,765.91	7,563.92	201.99	38.446	
8,600.00	7,496.72	7,467.72	7,467.72	73.85	129.36	5.07	-5,617.76	5,714.19	7,726.05	7,523.48	202.57	38.139	
8,650.00	7,523.80	7,505.20	7,494.80	73.79	130.01	-0.98	-5,617.76	5,714.19	7,684.05	7,480.80	203.25	37.806	
8,700.00	7,547.77	7,518.77	7,518.77	73.70	130.25	-8.09	-5,617.76	5,714.19	7,640.21	7,436.75	203.47	37.550	
8,750.00	7,568.45	7,539.45	7,539.45	73.58	130.61	-16.87	-5,617.76	5,714.19	7,594.89	7,391.11	203.78	37.270	
8,800.00	7,585.69	7,556.69	7,556.69	73.43	130.91	-28.02	-5,617.76	5,714.19	7,548.43	7,344.42	204.00	37.001	
8,850.00	7,599.35	7,570.35	7,570.35	73.26	131.15	-41.97	-5,617.76	5,714.19	7,501.18	7,297.05	204.14	36.746	
8,900.00	7,609.33	7,580.33	7,580.33	73.07	131.32	-58.10	-5,617.76	5,714.19	7,453.52	7,249.34	204.18	36.505	
8,950.00	7,615.55	7,586.55	7,586.55	72.87	131.43	-74.35	-5,617.76	5,714.19	7,405.82	7,201.69	204.14	36.279	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	7,588.97	7,588.97	72.65	131.48	-88.38	-5,617.76	5,714.19	7,358.46	7,154.45	204.01	36.070	
9,006.60	7,618.00	7,589.00	7,589.00	72.62	131.48	-90.00	-5,617.76	5,714.19	7,352.25	7,148.26	203.98	36.044	
9,100.00	7,618.00	7,589.00	7,589.00	72.22	131.48	-90.00	-5,617.76	5,714.19	7,264.56	7,060.93	203.64	35.674	
9,200.00	7,618.00	7,589.00	7,589.00	71.80	131.48	-90.00	-5,617.76	5,714.19	7,170.85	6,967.58	203.27	35.278	
9,300.00	7,618.00	7,589.00	7,589.00	71.41	131.48	-90.00	-5,617.76	5,714.19	7,077.30	6,874.41	202.89	34.883	
9,400.00	7,618.00	7,589.00	7,589.00	71.04	131.48	-90.00	-5,617.76	5,714.19	6,983.93	6,781.43	202.50	34.489	
9,500.00	7,618.00	7,589.00	7,589.00	70.68	131.48	-90.00	-5,617.76	5,714.19	6,890.75	6,688.64	202.10	34.095	
9,600.00	7,618.00	7,589.00	7,589.00	70.35	131.48	-90.00	-5,617.76	5,714.19	6,797.76	6,596.05	201.70	33.702	
9,700.00	7,618.00	7,589.00	7,589.00	70.04	131.48	-90.00	-5,617.76	5,714.19	6,704.97	6,503.68	201.29	33.309	
9,800.00	7,618.00	7,589.00	7,589.00	69.75	131.48	-90.00	-5,617.76	5,714.19	6,612.39	6,411.51	200.88	32.918	
9,900.00	7,618.00	7,589.00	7,589.00	69.47	131.48	-90.00	-5,617.76	5,714.19	6,520.03	6,319.58	200.45	32.526	
10,000.00	7,618.00	7,589.00	7,589.00	69.22	131.48	-90.00	-5,617.76	5,714.19	6,427.91	6,227.88	200.02	32.136	
10,100.00	7,618.00	7,589.00	7,589.00	68.99	131.48	-90.00	-5,617.76	5,714.19	6,336.01	6,136.43	199.59	31.746	
10,200.00	7,618.00	7,589.00	7,589.00	68.78	131.48	-90.00	-5,617.76	5,714.19	6,244.37	6,045.23	199.14	31.356	
10,300.00	7,618.00	7,589.00	7,589.00	68.59	131.48	-90.00	-5,617.76	5,714.19	6,152.99	5,954.30	198.69	30.968	
10,400.00	7,618.00	7,589.00	7,589.00	68.42	131.48	-90.00	-5,617.76	5,714.19	6,061.88	5,863.65	198.23	30.579	
10,500.00	7,618.00	7,589.00	7,589.00	68.28	131.48	-90.00	-5,617.76	5,714.19	5,971.06	5,773.29	197.77	30.192	
10,600.00	7,618.00	7,589.00	7,589.00	68.16	131.48	-90.00	-5,617.76	5,714.19	5,880.53	5,683.23	197.30	29.805	
10,700.00	7,618.00	7,589.00	7,589.00	68.06	131.48	-90.00	-5,617.76	5,714.19	5,790.32	5,593.49	196.82	29.419	
10,800.00	7,618.00	7,589.00	7,589.00	67.99	131.48	-90.00	-5,617.76	5,714.19	5,700.43	5,504.09	196.34	29.033	
10,900.00	7,618.00	7,589.00	7,589.00	67.95	131.48	-90.00	-5,617.76	5,714.19	5,610.88	5,415.03	195.86	28.648	
11,000.00	7,618.00	7,589.00	7,589.00	67.95	131.48	-90.00	-5,617.76	5,714.19	5,521.70	5,326.33	195.37	28.263	
11,100.00	7,618.00	7,589.00	7,589.00	67.97	131.48	-90.00	-5,617.76	5,714.19	5,432.89	5,238.01	194.88	27.878	
11,200.00	7,618.00	7,589.00	7,589.00	68.04	131.48	-90.00	-5,617.76	5,714.19	5,344.47	5,150.09	194.39	27.494	
11,300.00	7,618.00	7,589.00	7,589.00	68.15	131.48	-90.00	-5,617.76	5,714.19	5,256.47	5,062.58	193.89	27.110	
11,400.00	7,618.00	7,589.00	7,589.00	68.30	131.48	-90.00	-5,617.76	5,714.19	5,168.91	4,975.51	193.40	26.727	
11,500.00	7,618.00	7,589.00	7,589.00	68.50	131.48	-90.00	-5,617.76	5,714.19	5,081.80	4,888.89	192.91	26.343	
11,600.00	7,618.00	7,589.00	7,589.00	68.75	131.48	-90.00	-5,617.76	5,714.19	4,995.18	4,802.76	192.42	25.959	
11,700.00	7,618.00	7,589.00	7,589.00	69.06	131.48	-90.00	-5,617.76	5,714.19	4,909.07	4,717.13	191.95	25.575	
11,800.00	7,618.00	7,589.00	7,589.00	69.44	131.48	-90.00	-5,617.76	5,714.19	4,823.49	4,632.02	191.48	25.191	
11,900.00	7,618.00	7,589.00	7,589.00	69.88	131.48	-90.00	-5,617.76	5,714.19	4,738.48	4,547.46	191.02	24.806	
12,000.00	7,618.00	7,589.00	7,589.00	70.39	131.48	-90.00	-5,617.76	5,714.19	4,654.07	4,463.49	190.58	24.421	
12,100.00	7,618.00	7,589.00	7,589.00	70.97	131.48	-90.00	-5,617.76	5,714.19	4,570.28	4,380.12	190.16	24.034	
12,200.00	7,618.00	7,589.00	7,589.00	71.63	131.48	-90.00	-5,617.76	5,714.19	4,487.16	4,297.40	189.76	23.647	
12,300.00	7,618.00	7,589.00	7,589.00	72.35	131.48	-90.00	-5,617.76	5,714.19	4,404.73	4,215.35	189.39	23.258	
12,400.00	7,618.00	7,589.00	7,589.00	73.15	131.48	-90.00	-5,617.76	5,714.19	4,323.06	4,134.00	189.05	22.867	
12,500.00	7,618.00	7,589.00	7,589.00	74.01	131.48	-90.00	-5,617.76	5,714.19	4,242.16	4,053.41	188.76	22.474	
12,600.00	7,618.00	7,589.00	7,589.00	74.93	131.48	-90.00	-5,617.76	5,714.19	4,162.10	3,973.59	188.51	22.079	
12,700.00	7,618.00	7,589.00	7,589.00	75.91	131.48	-90.00	-5,617.76	5,714.19	4,082.91	3,894.60	188.31	21.682	
12,800.00	7,618.00	7,589.00	7,589.00	76.95	131.48	-90.00	-5,617.76	5,714.19	4,004.66	3,816.48	188.18	21.281	
12,900.00	7,618.00	7,589.00	7,589.00	78.04	131.48	-90.00	-5,617.76	5,714.19	3,927.39	3,739.28	188.12	20.878	
13,000.00	7,618.00	7,589.00	7,589.00	79.16	131.48	-90.00	-5,617.76	5,714.19	3,851.17	3,663.04	188.13	20.470	
13,100.00	7,618.00	7,589.00	7,589.00	80.33	131.48	-90.00	-5,617.76	5,714.19	3,776.06	3,587.82	188.24	20.060	
13,200.00	7,618.00	7,589.00	7,589.00	81.54	131.48	-90.00	-5,617.76	5,714.19	3,702.13	3,513.68	188.45	19.645	
13,300.00	7,618.00	7,589.00	7,589.00	82.78	131.48	-90.00	-5,617.76	5,714.19	3,629.44	3,440.68	188.77	19.227	
13,400.00	7,618.00	7,589.00	7,589.00	84.05	131.48	-90.00	-5,617.76	5,714.19	3,558.09	3,368.88	189.21	18.805	
13,500.00	7,618.00	7,589.00	7,589.00	85.35	131.48	-90.00	-5,617.76	5,714.19	3,488.14	3,298.36	189.78	18.380	
13,600.00	7,618.00	7,589.00	7,589.00	86.67	131.48	-90.00	-5,617.76	5,714.19	3,419.68	3,229.19	190.49	17.952	
13,700.00	7,618.00	7,589.00	7,589.00	88.02	131.48	-90.00	-5,617.76	5,714.19	3,352.81	3,161.46	191.35	17.521	
13,800.00	7,618.00	7,589.00	7,589.00	89.38	131.48	-90.00	-5,617.76	5,714.19	3,287.62	3,095.24	192.38	17.089	
13,900.00	7,618.00	7,589.00	7,589.00	90.77	131.48	-90.00	-5,617.76	5,714.19	3,224.22	3,030.65	193.57	16.657	
14,000.00	7,618.00	7,589.00	7,589.00	92.17	131.48	-90.00	-5,617.76	5,714.19	3,162.70	2,967.77	194.94	16.224	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,618.00	7,589.00	7,589.00	93.59	131.48	-90.00	-5,617.76	5,714.19	3,103.19	2,906.71	196.48	15.794	
14,200.00	7,618.00	7,589.00	7,589.00	95.02	131.48	-90.00	-5,617.76	5,714.19	3,045.81	2,847.60	198.20	15.367	
14,300.00	7,618.00	7,589.00	7,589.00	96.47	131.48	-90.00	-5,617.76	5,714.19	2,990.66	2,790.55	200.11	14.945	
14,400.00	7,618.00	7,589.00	7,589.00	97.93	131.48	-90.00	-5,617.76	5,714.19	2,937.89	2,735.70	202.19	14.530	
14,500.00	7,618.00	7,589.00	7,589.00	99.41	131.48	-90.00	-5,617.76	5,714.19	2,887.61	2,683.16	204.45	14.124	
14,600.00	7,618.00	7,589.00	7,589.00	100.89	131.48	-90.00	-5,617.76	5,714.19	2,839.97	2,633.10	206.87	13.728	
14,700.00	7,618.00	7,589.00	7,589.00	102.38	131.48	-90.00	-5,617.76	5,714.19	2,795.09	2,585.64	209.45	13.345	
14,800.00	7,618.00	7,589.00	7,589.00	103.89	131.48	-90.00	-5,617.76	5,714.19	2,753.12	2,540.94	212.17	12.976	
14,900.00	7,618.00	7,589.00	7,589.00	105.40	131.48	-90.00	-5,617.76	5,714.19	2,714.18	2,499.15	215.03	12.622	
15,000.00	7,618.00	7,589.00	7,589.00	106.92	131.48	-90.00	-5,617.76	5,714.19	2,678.41	2,460.41	218.00	12.286	
15,100.00	7,618.00	7,589.00	7,589.00	108.45	131.48	-90.00	-5,617.76	5,714.19	2,645.94	2,424.87	221.07	11.969	
15,200.00	7,618.00	7,589.00	7,589.00	109.99	131.48	-90.00	-5,617.76	5,714.19	2,616.89	2,392.68	224.21	11.672	
15,300.00	7,618.00	7,589.00	7,589.00	111.54	131.48	-90.00	-5,617.76	5,714.19	2,591.38	2,363.98	227.40	11.396	
15,400.00	7,618.00	7,589.00	7,589.00	113.09	131.48	-90.00	-5,617.76	5,714.19	2,569.50	2,338.88	230.62	11.142	
15,500.00	7,618.00	7,589.00	7,589.00	114.65	131.48	-90.00	-5,617.76	5,714.19	2,551.37	2,317.51	233.85	10.910	
15,600.00	7,618.00	7,589.00	7,589.00	116.21	131.48	-90.00	-5,617.76	5,714.19	2,537.04	2,299.98	237.06	10.702	
15,700.00	7,618.00	7,589.00	7,589.00	117.78	131.48	-90.00	-5,617.76	5,714.19	2,526.60	2,286.38	240.22	10.518	
15,800.00	7,618.00	7,589.00	7,589.00	119.36	131.48	-90.00	-5,617.76	5,714.19	2,520.08	2,276.77	243.32	10.357	
15,900.00	7,618.00	7,589.00	7,589.00	120.94	131.48	-90.00	-5,617.76	5,714.19	2,517.53	2,271.20	246.33	10.220	
15,914.41	7,618.00	7,589.00	7,589.00	121.17	131.48	-90.00	-5,617.76	5,714.19	2,517.49	2,270.74	246.75	10.203	CC
16,000.00	7,618.00	7,589.00	7,589.00	122.53	131.48	-90.00	-5,617.76	5,714.19	2,518.94	2,269.72	249.22	10.107	ES
16,100.00	7,618.00	7,589.00	7,589.00	124.12	131.48	-90.00	-5,617.76	5,714.19	2,524.32	2,272.33	251.99	10.018	
16,200.00	7,618.00	7,589.00	7,589.00	125.72	131.48	-90.00	-5,617.76	5,714.19	2,533.63	2,279.02	254.61	9.951	
16,300.00	7,618.00	7,589.00	7,589.00	127.32	131.48	-90.00	-5,617.76	5,714.19	2,546.84	2,289.77	257.08	9.907	
16,400.00	7,618.00	7,589.00	7,589.00	128.93	131.48	-90.00	-5,617.76	5,714.19	2,563.89	2,304.51	259.38	9.885	
16,500.00	7,618.00	7,589.00	7,589.00	130.54	131.48	-90.00	-5,617.76	5,714.19	2,584.70	2,323.19	261.51	9.884	SF
16,600.00	7,618.00	7,589.00	7,589.00	132.15	131.48	-90.00	-5,617.76	5,714.19	2,609.17	2,345.71	263.46	9.904	
16,700.00	7,618.00	7,589.00	7,589.00	133.77	131.48	-90.00	-5,617.76	5,714.19	2,637.21	2,371.98	265.23	9.943	
16,800.00	7,618.00	7,589.00	7,589.00	135.39	131.48	-90.00	-5,617.76	5,714.19	2,668.71	2,401.88	266.83	10.002	
16,900.00	7,618.00	7,589.00	7,589.00	137.01	131.48	-90.00	-5,617.76	5,714.19	2,703.54	2,435.29	268.25	10.078	
17,000.00	7,618.00	7,589.00	7,589.00	138.64	131.48	-90.00	-5,617.76	5,714.19	2,741.58	2,472.06	269.51	10.172	
17,100.00	7,618.00	7,589.00	7,589.00	140.27	131.48	-90.00	-5,617.76	5,714.19	2,782.69	2,512.08	270.61	10.283	
17,200.00	7,618.00	7,589.00	7,589.00	141.91	131.48	-90.00	-5,617.76	5,714.19	2,826.74	2,555.18	271.56	10.409	
17,300.00	7,618.00	7,589.00	7,589.00	143.55	131.48	-90.00	-5,617.76	5,714.19	2,873.60	2,601.24	272.37	10.551	
17,400.00	7,618.00	7,589.00	7,589.00	145.19	131.48	-90.00	-5,617.76	5,714.19	2,923.14	2,650.10	273.04	10.706	
17,500.00	7,618.00	7,589.00	7,589.00	146.83	131.48	-90.00	-5,617.76	5,714.19	2,975.20	2,701.61	273.59	10.875	
17,600.00	7,618.00	7,589.00	7,589.00	148.48	131.48	-90.00	-5,617.76	5,714.19	3,029.68	2,755.65	274.03	11.056	
17,700.00	7,618.00	7,589.00	7,589.00	150.13	131.48	-90.00	-5,617.76	5,714.19	3,086.43	2,812.07	274.36	11.249	
17,800.00	7,618.00	7,589.00	7,589.00	151.78	131.48	-90.00	-5,617.76	5,714.19	3,145.34	2,870.74	274.60	11.454	
17,900.00	7,618.00	7,589.00	7,589.00	153.43	131.48	-90.00	-5,617.76	5,714.19	3,206.29	2,931.53	274.76	11.669	
18,000.00	7,618.00	7,589.00	7,589.00	155.09	131.48	-90.00	-5,617.76	5,714.19	3,269.16	2,994.32	274.84	11.895	
18,100.00	7,618.00	7,589.00	7,589.00	156.75	131.48	-90.00	-5,617.76	5,714.19	3,333.85	3,059.00	274.85	12.130	
18,200.00	7,618.00	7,589.00	7,589.00	158.41	131.48	-90.00	-5,617.76	5,714.19	3,400.25	3,125.44	274.81	12.373	
18,300.00	7,618.00	7,589.00	7,589.00	160.07	131.48	-90.00	-5,617.76	5,714.19	3,468.25	3,193.55	274.71	12.625	
18,400.00	7,618.00	7,589.00	7,589.00	161.74	131.48	-90.00	-5,617.76	5,714.19	3,537.78	3,263.22	274.56	12.885	
18,500.00	7,618.00	7,589.00	7,589.00	163.41	131.48	-90.00	-5,617.76	5,714.19	3,608.74	3,334.37	274.37	13.153	
18,600.00	7,618.00	7,589.00	7,589.00	165.08	131.48	-90.00	-5,617.76	5,714.19	3,681.05	3,406.90	274.15	13.427	
18,700.00	7,618.00	7,589.00	7,589.00	166.75	131.48	-90.00	-5,617.76	5,714.19	3,754.63	3,480.74	273.89	13.708	
18,711.30	7,618.00	7,589.00	7,589.00	166.94	131.48	-90.00	-5,617.76	5,714.19	3,763.02	3,489.16	273.86	13.740	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	134.31	-4,823.78	4,940.77	6,905.24				
100.00	100.00	52.00	52.00	0.13	0.40	134.31	-4,823.78	4,940.77	6,905.07	6,904.54	0.53	N/A	
200.00	200.00	152.00	152.00	0.49	1.68	134.31	-4,823.78	4,940.77	6,905.07	6,902.90	2.17	3,184.386	
300.00	300.00	252.00	252.00	0.85	3.42	134.31	-4,823.78	4,940.77	6,905.07	6,900.80	4.27	1,616.274	
400.00	400.00	352.00	352.00	1.21	5.17	134.31	-4,823.78	4,940.77	6,905.07	6,898.70	6.38	1,082.976	
500.00	500.00	452.00	452.00	1.57	6.91	134.31	-4,823.78	4,940.77	6,905.07	6,896.59	8.48	814.295	
600.00	600.00	552.00	552.00	1.93	8.66	134.31	-4,823.78	4,940.77	6,905.07	6,894.49	10.58	652.430	
700.00	700.00	652.00	652.00	2.29	10.40	134.31	-4,823.78	4,940.77	6,905.07	6,892.38	12.69	544.246	
800.00	800.00	752.00	752.00	2.64	12.15	134.31	-4,823.78	4,940.77	6,905.07	6,890.28	14.79	466.836	
900.00	900.00	852.00	852.00	3.00	13.89	134.31	-4,823.78	4,940.77	6,905.07	6,888.18	16.90	408.705	
1,000.00	999.98	951.98	951.98	3.36	15.64	77.14	-4,823.78	4,940.77	6,904.68	6,885.69	18.99	363.509	
1,100.00	1,099.84	1,051.84	1,051.84	3.71	17.38	77.21	-4,823.78	4,940.77	6,903.52	6,882.43	21.09	327.334	
1,200.00	1,199.45	1,151.45	1,151.45	4.07	19.12	77.32	-4,823.78	4,940.77	6,901.59	6,878.40	23.19	297.654	
1,300.00	1,298.70	1,250.70	1,250.70	4.44	20.85	77.47	-4,823.78	4,940.77	6,898.91	6,873.63	25.29	272.839	
1,400.00	1,397.47	1,349.47	1,349.47	4.82	22.58	77.66	-4,823.78	4,940.77	6,895.50	6,868.11	27.39	251.755	
1,500.00	1,495.62	1,447.62	1,447.62	5.22	24.29	77.89	-4,823.78	4,940.77	6,891.39	6,861.89	29.50	233.589	
1,600.00	1,593.06	1,545.06	1,545.06	5.65	25.99	78.16	-4,823.78	4,940.77	6,886.61	6,854.98	31.63	217.748	
1,700.00	1,689.64	1,641.64	1,641.64	6.11	27.67	78.48	-4,823.78	4,940.77	6,881.19	6,847.42	33.77	203.788	
1,800.00	1,785.27	1,737.27	1,737.27	6.61	29.34	78.82	-4,823.78	4,940.77	6,875.18	6,839.26	35.93	191.373	
1,900.00	1,879.82	1,831.82	1,831.82	7.15	30.99	79.20	-4,823.78	4,940.77	6,868.63	6,830.53	38.11	180.243	
2,000.00	1,973.17	1,925.17	1,925.17	7.73	32.62	79.62	-4,823.78	4,940.77	6,861.60	6,821.28	40.32	170.197	
2,100.00	2,065.21	2,017.21	2,017.21	8.37	34.23	80.06	-4,823.78	4,940.77	6,854.13	6,811.58	42.55	161.074	
2,200.00	2,155.84	2,107.84	2,107.84	9.07	35.81	80.53	-4,823.78	4,940.77	6,846.29	6,801.47	44.82	152.747	
2,300.00	2,244.94	2,203.06	2,196.94	9.82	37.47	81.03	-4,823.78	4,940.77	6,838.16	6,790.93	47.23	144.786	
2,400.00	2,332.39	2,284.39	2,284.39	10.64	38.89	81.55	-4,823.78	4,940.77	6,829.79	6,780.33	49.46	138.090	
2,500.00	2,418.11	2,370.11	2,370.11	11.53	40.39	82.09	-4,823.78	4,940.77	6,821.27	6,769.44	51.83	131.606	
2,558.91	2,467.74	2,419.74	2,419.74	12.08	41.25	82.41	-4,823.78	4,940.77	6,816.21	6,762.97	53.24	128.018	
2,600.00	2,502.13	2,454.13	2,454.13	12.47	41.86	82.57	-4,823.78	4,940.77	6,812.71	6,758.48	54.24	125.612	
2,700.00	2,585.83	2,537.83	2,537.83	13.45	43.32	82.95	-4,823.78	4,940.77	6,804.50	6,747.83	56.67	120.071	
2,800.00	2,669.53	2,621.53	2,621.53	14.44	44.78	83.33	-4,823.78	4,940.77	6,796.71	6,737.59	59.13	114.952	
2,900.00	2,753.22	2,705.22	2,705.22	15.46	46.24	83.72	-4,823.78	4,940.77	6,789.36	6,727.76	61.60	110.219	
3,000.00	2,836.92	2,788.92	2,788.92	16.48	47.70	84.10	-4,823.78	4,940.77	6,782.45	6,718.36	64.09	105.833	
3,100.00	2,920.62	2,872.62	2,872.62	17.52	49.16	84.49	-4,823.78	4,940.77	6,775.96	6,709.38	66.58	101.764	
3,200.00	3,004.32	2,956.32	2,956.32	18.56	50.62	84.88	-4,823.78	4,940.77	6,769.92	6,700.82	69.09	97.982	
3,300.00	3,088.01	3,040.01	3,040.01	19.61	52.08	85.26	-4,823.78	4,940.77	6,764.31	6,692.70	71.61	94.460	
3,400.00	3,171.71	3,123.71	3,123.71	20.67	53.54	85.65	-4,823.78	4,940.77	6,759.14	6,685.00	74.13	91.174	
3,500.00	3,255.41	3,207.41	3,207.41	21.73	55.00	86.04	-4,823.78	4,940.77	6,754.41	6,677.74	76.66	88.104	
3,600.00	3,339.10	3,308.90	3,291.10	22.80	56.77	86.43	-4,823.78	4,940.77	6,750.12	6,670.61	79.51	84.897	
3,700.00	3,422.80	3,374.80	3,374.80	23.87	57.92	86.82	-4,823.78	4,940.77	6,746.27	6,664.53	81.74	82.535	
3,800.00	3,506.50	3,458.50	3,458.50	24.94	59.38	87.21	-4,823.78	4,940.77	6,742.86	6,658.58	84.28	80.004	
3,900.00	3,590.20	3,542.20	3,542.20	26.02	60.85	87.59	-4,823.78	4,940.77	6,739.89	6,653.07	86.83	77.625	
4,000.00	3,673.89	3,625.89	3,625.89	27.10	62.31	87.98	-4,823.78	4,940.77	6,737.37	6,648.00	89.37	75.384	
4,100.00	3,757.59	3,709.59	3,709.59	28.18	63.77	88.37	-4,823.78	4,940.77	6,735.29	6,643.37	91.92	73.270	
4,200.00	3,841.29	3,806.71	3,793.29	29.26	65.46	88.76	-4,823.78	4,940.77	6,733.66	6,638.95	94.71	71.098	
4,300.00	3,924.99	3,876.99	3,876.99	30.35	66.69	89.15	-4,823.78	4,940.77	6,732.47	6,635.44	97.03	69.387	
4,400.00	4,008.68	3,960.68	3,960.68	31.44	68.15	89.54	-4,823.78	4,940.77	6,731.72	6,632.14	99.58	67.601	
4,500.00	4,092.38	4,044.38	4,044.38	32.52	69.61	89.93	-4,823.78	4,940.77	6,731.42	6,629.29	102.13	65.908	
4,517.45	4,106.99	4,058.99	4,058.99	32.72	69.87	90.00	-4,823.78	4,940.77	6,731.42	6,628.84	102.58	65.622	
4,600.00	4,176.08	4,128.08	4,128.08	33.62	71.07	90.32	-4,823.78	4,940.77	6,731.57	6,626.88	104.69	64.302	
4,700.00	4,259.77	4,211.77	4,211.77	34.71	72.53	90.71	-4,823.78	4,940.77	6,732.16	6,624.92	107.24	62.777	
4,800.00	4,343.47	4,304.53	4,295.47	35.80	74.15	91.10	-4,823.78	4,940.77	6,733.19	6,623.24	109.95	61.240	
4,900.00	4,427.17	4,379.17	4,379.17	36.89	75.45	91.49	-4,823.78	4,940.77	6,734.67	6,622.33	112.34	59.948	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,510.87	4,462.87	4,462.87	37.99	76.91	91.88	-4,823.78	4,940.77	6,736.60	6,621.70	114.89	58.635	
5,100.00	4,594.56	4,546.56	4,546.56	39.08	78.38	92.27	-4,823.78	4,940.77	6,738.96	6,621.52	117.44	57.383	
5,200.00	4,678.26	4,630.26	4,630.26	40.18	79.84	92.66	-4,823.78	4,940.77	6,741.77	6,621.79	119.99	56.188	
5,300.00	4,761.96	4,713.96	4,713.96	41.28	81.30	93.05	-4,823.78	4,940.77	6,745.03	6,622.50	122.53	55.048	
5,400.00	4,845.66	4,802.34	4,797.66	42.37	82.84	93.44	-4,823.78	4,940.77	6,748.72	6,623.57	125.15	53.923	
5,500.00	4,929.35	4,881.35	4,881.35	43.47	84.22	93.82	-4,823.78	4,940.77	6,752.86	6,625.25	127.61	52.917	
5,600.00	5,013.05	4,965.05	4,965.05	44.57	85.68	94.21	-4,823.78	4,940.77	6,757.44	6,627.29	130.15	51.921	
5,700.00	5,096.75	5,048.75	5,048.75	45.67	87.14	94.60	-4,823.78	4,940.77	6,762.45	6,629.77	132.68	50.967	
5,800.00	5,180.45	5,132.45	5,132.45	46.77	88.60	94.99	-4,823.78	4,940.77	6,767.91	6,632.69	135.21	50.053	
5,900.00	5,264.14	5,216.14	5,216.14	47.87	90.06	95.37	-4,823.78	4,940.77	6,773.80	6,636.06	137.74	49.177	
6,000.00	5,347.84	5,300.16	5,299.84	48.97	91.53	95.76	-4,823.78	4,940.77	6,780.13	6,639.86	140.27	48.335	
6,100.00	5,431.54	5,383.54	5,383.54	50.07	92.98	96.15	-4,823.78	4,940.77	6,786.90	6,644.11	142.79	47.531	
6,200.00	5,515.23	5,467.23	5,467.23	51.17	94.44	96.53	-4,823.78	4,940.77	6,794.10	6,648.79	145.31	46.757	
6,300.00	5,598.93	5,550.93	5,550.93	52.27	95.90	96.92	-4,823.78	4,940.77	6,801.73	6,653.91	147.82	46.014	
6,400.00	5,682.63	5,634.63	5,634.63	53.38	97.37	97.30	-4,823.78	4,940.77	6,809.80	6,659.47	150.33	45.300	
6,500.00	5,766.33	5,718.33	5,718.33	54.48	98.83	97.68	-4,823.78	4,940.77	6,818.29	6,665.46	152.83	44.613	
6,600.00	5,850.02	5,802.02	5,802.02	55.58	100.29	98.07	-4,823.78	4,940.77	6,827.21	6,671.88	155.33	43.952	
6,700.00	5,933.72	5,885.72	5,885.72	56.68	101.75	98.45	-4,823.78	4,940.77	6,836.56	6,678.73	157.83	43.316	
6,800.00	6,017.42	5,969.42	5,969.42	57.79	103.21	98.83	-4,823.78	4,940.77	6,846.33	6,686.01	160.32	42.704	
6,900.00	6,101.12	6,053.12	6,053.12	58.89	104.67	99.21	-4,823.78	4,940.77	6,856.53	6,693.72	162.81	42.114	
7,000.00	6,184.81	6,136.81	6,136.81	59.99	106.13	99.59	-4,823.78	4,940.77	6,867.14	6,701.86	165.29	41.546	
7,100.00	6,268.51	6,220.51	6,220.51	61.10	107.59	99.97	-4,823.78	4,940.77	6,878.18	6,710.41	167.76	40.999	
7,200.00	6,352.21	6,304.21	6,304.21	62.20	109.05	100.34	-4,823.78	4,940.77	6,889.63	6,719.40	170.24	40.471	
7,300.00	6,435.90	6,387.90	6,387.90	63.31	110.51	100.72	-4,823.78	4,940.77	6,901.50	6,728.80	172.70	39.962	
7,400.00	6,519.60	6,471.60	6,471.60	64.41	111.97	101.10	-4,823.78	4,940.77	6,913.78	6,738.62	175.16	39.471	
7,500.00	6,603.30	6,555.30	6,555.30	65.51	113.43	101.47	-4,823.78	4,940.77	6,926.47	6,748.85	177.62	38.997	
7,600.00	6,687.00	6,639.00	6,639.00	66.62	114.89	101.85	-4,823.78	4,940.77	6,939.57	6,759.50	180.07	38.539	
7,700.00	6,770.69	6,722.69	6,722.69	67.72	116.36	102.22	-4,823.78	4,940.77	6,953.08	6,770.57	182.51	38.097	
7,800.00	6,854.39	6,806.39	6,806.39	68.83	117.82	102.59	-4,823.78	4,940.77	6,966.98	6,782.04	184.95	37.670	
7,900.00	6,938.09	6,909.91	6,890.09	69.93	119.62	102.96	-4,823.78	4,940.77	6,981.30	6,793.57	187.73	37.189	
7,933.18	6,965.86	6,917.86	6,917.86	70.30	119.76	103.08	-4,823.78	4,940.77	6,986.13	6,797.95	188.19	37.124	
7,950.00	6,980.00	6,932.00	6,932.00	70.49	120.01	100.89	-4,823.78	4,940.77	6,988.36	6,799.77	188.59	37.055	
8,000.00	7,022.68	6,974.68	6,974.68	71.01	120.75	93.60	-4,823.78	4,940.77	6,992.27	6,802.46	189.81	36.838	
8,050.00	7,066.06	7,018.06	7,018.06	71.51	121.51	85.33	-4,823.78	4,940.77	6,992.05	6,801.02	191.03	36.602	
8,100.00	7,109.82	7,061.82	7,061.82	71.97	122.27	76.40	-4,823.78	4,940.77	6,987.72	6,795.48	192.23	36.350	
8,150.00	7,153.63	7,105.63	7,105.63	72.38	123.04	67.28	-4,823.78	4,940.77	6,979.27	6,785.86	193.41	36.085	
8,200.00	7,197.14	7,149.14	7,149.14	72.74	123.80	58.48	-4,823.78	4,940.77	6,966.78	6,772.22	194.55	35.809	
8,250.00	7,240.04	7,207.96	7,192.04	73.05	124.83	50.36	-4,823.78	4,940.77	6,950.31	6,754.38	195.93	35.474	
8,300.00	7,281.99	7,233.99	7,233.99	73.31	125.28	43.09	-4,823.78	4,940.77	6,929.99	6,733.29	196.69	35.233	
8,350.00	7,322.67	7,274.67	7,274.67	73.52	125.99	36.67	-4,823.78	4,940.77	6,905.94	6,708.27	197.68	34.936	
8,400.00	7,361.77	7,313.77	7,313.77	73.68	126.67	31.00	-4,823.78	4,940.77	6,878.36	6,679.76	198.59	34.635	
8,450.00	7,399.01	7,351.01	7,351.01	73.78	127.32	25.89	-4,823.78	4,940.77	6,847.42	6,647.98	199.44	34.333	
8,500.00	7,434.08	7,386.08	7,386.08	73.85	127.93	21.16	-4,823.78	4,940.77	6,813.36	6,613.14	200.21	34.031	
8,550.00	7,466.74	7,418.74	7,418.74	73.87	128.50	16.59	-4,823.78	4,940.77	6,776.42	6,575.52	200.91	33.729	
8,600.00	7,496.72	7,448.72	7,448.72	73.85	129.03	11.91	-4,823.78	4,940.77	6,736.88	6,535.37	201.52	33.431	
8,650.00	7,523.80	7,475.80	7,475.80	73.79	129.50	6.82	-4,823.78	4,940.77	6,695.04	6,493.00	202.04	33.137	
8,700.00	7,547.77	7,500.23	7,499.77	73.70	129.93	0.87	-4,823.78	4,940.77	6,651.20	6,448.72	202.49	32.847	
8,750.00	7,568.45	7,520.45	7,520.45	73.58	130.28	-6.62	-4,823.78	4,940.77	6,605.71	6,402.88	202.83	32.568	
8,800.00	7,585.69	7,537.69	7,537.69	73.43	130.58	-16.64	-4,823.78	4,940.77	6,558.90	6,355.81	203.09	32.295	
8,850.00	7,599.35	7,551.35	7,551.35	73.26	130.82	-30.48	-4,823.78	4,940.77	6,511.14	6,307.87	203.27	32.033	
8,900.00	7,609.33	7,561.33	7,561.33	73.07	130.99	-48.82	-4,823.78	4,940.77	6,462.80	6,259.44	203.35	31.781	
8,950.00	7,615.55	7,567.55	7,567.55	72.87	131.10	-69.52	-4,823.78	4,940.77	6,414.24	6,210.89	203.35	31.543	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	7,569.97	7,569.97	72.65	131.14	-87.92	-4,823.78	4,940.77	6,365.87	6,162.60	203.27	31.318	
9,006.60	7,618.00	7,570.00	7,570.00	72.62	131.14	-90.00	-4,823.78	4,940.77	6,359.51	6,156.26	203.25	31.289	
9,100.00	7,618.00	7,570.00	7,570.00	72.22	131.14	-90.00	-4,823.78	4,940.77	6,269.74	6,066.74	202.99	30.887	
9,200.00	7,618.00	7,570.00	7,570.00	71.80	131.14	-90.00	-4,823.78	4,940.77	6,173.73	5,971.03	202.71	30.457	
9,300.00	7,618.00	7,570.00	7,570.00	71.41	131.14	-90.00	-4,823.78	4,940.77	6,077.86	5,875.44	202.42	30.027	
9,400.00	7,618.00	7,570.00	7,570.00	71.04	131.14	-90.00	-4,823.78	4,940.77	5,982.12	5,780.00	202.12	29.597	
9,500.00	7,618.00	7,570.00	7,570.00	70.68	131.14	-90.00	-4,823.78	4,940.77	5,886.52	5,684.71	201.81	29.169	
9,600.00	7,618.00	7,570.00	7,570.00	70.35	131.14	-90.00	-4,823.78	4,940.77	5,791.07	5,589.58	201.50	28.740	
9,700.00	7,618.00	7,570.00	7,570.00	70.04	131.14	-90.00	-4,823.78	4,940.77	5,695.78	5,494.61	201.17	28.313	
9,800.00	7,618.00	7,570.00	7,570.00	69.75	131.14	-90.00	-4,823.78	4,940.77	5,600.65	5,399.81	200.84	27.886	
9,900.00	7,618.00	7,570.00	7,570.00	69.47	131.14	-90.00	-4,823.78	4,940.77	5,505.70	5,305.19	200.50	27.459	
10,000.00	7,618.00	7,570.00	7,570.00	69.22	131.14	-90.00	-4,823.78	4,940.77	5,410.92	5,210.77	200.16	27.033	
10,100.00	7,618.00	7,570.00	7,570.00	68.99	131.14	-90.00	-4,823.78	4,940.77	5,316.34	5,116.54	199.80	26.608	
10,200.00	7,618.00	7,570.00	7,570.00	68.78	131.14	-90.00	-4,823.78	4,940.77	5,221.96	5,022.53	199.43	26.184	
10,300.00	7,618.00	7,570.00	7,570.00	68.59	131.14	-90.00	-4,823.78	4,940.77	5,127.79	4,928.73	199.06	25.760	
10,400.00	7,618.00	7,570.00	7,570.00	68.42	131.14	-90.00	-4,823.78	4,940.77	5,033.85	4,835.18	198.67	25.338	
10,500.00	7,618.00	7,570.00	7,570.00	68.28	131.14	-90.00	-4,823.78	4,940.77	4,940.14	4,741.87	198.28	24.916	
10,600.00	7,618.00	7,570.00	7,570.00	68.16	131.14	-90.00	-4,823.78	4,940.77	4,846.69	4,648.82	197.87	24.494	
10,700.00	7,618.00	7,570.00	7,570.00	68.06	131.14	-90.00	-4,823.78	4,940.77	4,753.50	4,556.05	197.46	24.074	
10,800.00	7,618.00	7,570.00	7,570.00	67.99	131.14	-90.00	-4,823.78	4,940.77	4,660.60	4,463.57	197.03	23.654	
10,900.00	7,618.00	7,570.00	7,570.00	67.95	131.14	-90.00	-4,823.78	4,940.77	4,568.00	4,371.40	196.59	23.236	
11,000.00	7,618.00	7,570.00	7,570.00	67.95	131.14	-90.00	-4,823.78	4,940.77	4,475.71	4,279.56	196.15	22.818	
11,100.00	7,618.00	7,570.00	7,570.00	67.97	131.14	-90.00	-4,823.78	4,940.77	4,383.76	4,188.07	195.70	22.401	
11,200.00	7,618.00	7,570.00	7,570.00	68.04	131.14	-90.00	-4,823.78	4,940.77	4,292.17	4,096.94	195.23	21.985	
11,300.00	7,618.00	7,570.00	7,570.00	68.15	131.14	-90.00	-4,823.78	4,940.77	4,200.97	4,006.21	194.76	21.570	
11,400.00	7,618.00	7,570.00	7,570.00	68.30	131.14	-90.00	-4,823.78	4,940.77	4,110.17	3,915.90	194.28	21.156	
11,500.00	7,618.00	7,570.00	7,570.00	68.50	131.14	-90.00	-4,823.78	4,940.77	4,019.82	3,826.02	193.79	20.743	
11,600.00	7,618.00	7,570.00	7,570.00	68.75	131.14	-90.00	-4,823.78	4,940.77	3,929.92	3,736.63	193.30	20.331	
11,700.00	7,618.00	7,570.00	7,570.00	69.06	131.14	-90.00	-4,823.78	4,940.77	3,840.53	3,647.73	192.80	19.920	
11,800.00	7,618.00	7,570.00	7,570.00	69.44	131.14	-90.00	-4,823.78	4,940.77	3,751.68	3,559.37	192.30	19.509	
11,900.00	7,618.00	7,570.00	7,570.00	69.88	131.14	-90.00	-4,823.78	4,940.77	3,663.40	3,471.59	191.80	19.100	
12,000.00	7,618.00	7,570.00	7,570.00	70.39	131.14	-90.00	-4,823.78	4,940.77	3,575.73	3,384.42	191.31	18.691	
12,100.00	7,618.00	7,570.00	7,570.00	70.97	131.14	-90.00	-4,823.78	4,940.77	3,488.73	3,297.91	190.82	18.283	
12,200.00	7,618.00	7,570.00	7,570.00	71.63	131.14	-90.00	-4,823.78	4,940.77	3,402.45	3,212.10	190.34	17.875	
12,300.00	7,618.00	7,570.00	7,570.00	72.35	131.14	-90.00	-4,823.78	4,940.77	3,316.93	3,127.05	189.88	17.468	
12,400.00	7,618.00	7,570.00	7,570.00	73.15	131.14	-90.00	-4,823.78	4,940.77	3,232.25	3,042.80	189.45	17.061	
12,500.00	7,618.00	7,570.00	7,570.00	74.01	131.14	-90.00	-4,823.78	4,940.77	3,148.46	2,959.42	189.04	16.655	
12,600.00	7,618.00	7,570.00	7,570.00	74.93	131.14	-90.00	-4,823.78	4,940.77	3,065.65	2,876.97	188.68	16.248	
12,700.00	7,618.00	7,570.00	7,570.00	75.91	131.14	-90.00	-4,823.78	4,940.77	2,983.89	2,795.52	188.37	15.841	
12,800.00	7,618.00	7,570.00	7,570.00	76.95	131.14	-90.00	-4,823.78	4,940.77	2,903.27	2,715.15	188.12	15.433	
12,900.00	7,618.00	7,570.00	7,570.00	78.04	131.14	-90.00	-4,823.78	4,940.77	2,823.89	2,635.94	187.95	15.025	
13,000.00	7,618.00	7,570.00	7,570.00	79.16	131.14	-90.00	-4,823.78	4,940.77	2,745.86	2,557.99	187.87	14.615	
13,100.00	7,618.00	7,570.00	7,570.00	80.33	131.14	-90.00	-4,823.78	4,940.77	2,669.30	2,481.39	187.91	14.205	
13,200.00	7,618.00	7,570.00	7,570.00	81.54	131.14	-90.00	-4,823.78	4,940.77	2,594.33	2,406.24	188.08	13.794	
13,300.00	7,618.00	7,570.00	7,570.00	82.78	131.14	-90.00	-4,823.78	4,940.77	2,521.10	2,332.68	188.41	13.381	
13,400.00	7,618.00	7,570.00	7,570.00	84.05	131.14	-90.00	-4,823.78	4,940.77	2,449.76	2,260.84	188.92	12.967	
13,500.00	7,618.00	7,570.00	7,570.00	85.35	131.14	-90.00	-4,823.78	4,940.77	2,380.48	2,190.86	189.63	12.554	
13,600.00	7,618.00	7,570.00	7,570.00	86.67	131.14	-90.00	-4,823.78	4,940.77	2,313.46	2,122.90	190.56	12.140	
13,700.00	7,618.00	7,570.00	7,570.00	88.02	131.14	-90.00	-4,823.78	4,940.77	2,248.88	2,057.14	191.74	11.729	
13,800.00	7,618.00	7,570.00	7,570.00	89.38	131.14	-90.00	-4,823.78	4,940.77	2,186.98	1,993.79	193.19	11.320	
13,900.00	7,618.00	7,570.00	7,570.00	90.77	131.14	-90.00	-4,823.78	4,940.77	2,127.97	1,933.05	194.92	10.917	
14,000.00	7,618.00	7,570.00	7,570.00	92.17	131.14	-90.00	-4,823.78	4,940.77	2,072.11	1,875.18	196.93	10.522	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,618.00	7,570.00	7,570.00	93.59	131.14	-90.00	-4,823.78	4,940.77	2,019.66	1,820.42	199.24	10.137	
14,200.00	7,618.00	7,570.00	7,570.00	95.02	131.14	-90.00	-4,823.78	4,940.77	1,970.89	1,769.06	201.84	9.765	
14,300.00	7,618.00	7,570.00	7,570.00	96.47	131.14	-90.00	-4,823.78	4,940.77	1,926.09	1,721.39	204.70	9.409	
14,400.00	7,618.00	7,570.00	7,570.00	97.93	131.14	-90.00	-4,823.78	4,940.77	1,885.52	1,677.72	207.81	9.073	
14,500.00	7,618.00	7,570.00	7,570.00	99.41	131.14	-90.00	-4,823.78	4,940.77	1,849.48	1,638.36	211.13	8.760	
14,600.00	7,618.00	7,570.00	7,570.00	100.89	131.14	-90.00	-4,823.78	4,940.77	1,818.24	1,603.62	214.62	8.472	
14,700.00	7,618.00	7,570.00	7,570.00	102.38	131.14	-90.00	-4,823.78	4,940.77	1,792.03	1,573.80	218.23	8.212	
14,800.00	7,618.00	7,570.00	7,570.00	103.89	131.14	-90.00	-4,823.78	4,940.77	1,771.09	1,549.19	221.90	7.982	
14,900.00	7,618.00	7,570.00	7,570.00	105.40	131.14	-90.00	-4,823.78	4,940.77	1,755.61	1,530.04	225.57	7.783	
15,000.00	7,618.00	7,570.00	7,570.00	106.92	131.14	-90.00	-4,823.78	4,940.77	1,745.72	1,516.54	229.18	7.617	
15,100.00	7,618.00	7,570.00	7,570.00	108.45	131.14	-90.00	-4,823.78	4,940.77	1,741.53	1,508.85	232.68	7.485	
15,123.05	7,618.00	7,570.00	7,570.00	108.81	131.14	-90.00	-4,823.78	4,940.77	1,741.38	1,507.92	233.46	7.459	CC
15,200.00	7,618.00	7,570.00	7,570.00	109.99	131.14	-90.00	-4,823.78	4,940.77	1,743.08	1,507.07	236.00	7.386	ES
15,300.00	7,618.00	7,570.00	7,570.00	111.54	131.14	-90.00	-4,823.78	4,940.77	1,750.34	1,511.23	239.11	7.320	
15,400.00	7,618.00	7,570.00	7,570.00	113.09	131.14	-90.00	-4,823.78	4,940.77	1,763.26	1,521.30	241.97	7.287	
15,500.00	7,618.00	7,570.00	7,570.00	114.65	131.14	-90.00	-4,823.78	4,940.77	1,781.71	1,537.16	244.54	7.286	SF
15,600.00	7,618.00	7,570.00	7,570.00	116.21	131.14	-90.00	-4,823.78	4,940.77	1,805.51	1,558.69	246.83	7.315	
15,700.00	7,618.00	7,570.00	7,570.00	117.78	131.14	-90.00	-4,823.78	4,940.77	1,834.47	1,585.65	248.81	7.373	
15,800.00	7,618.00	7,570.00	7,570.00	119.36	131.14	-90.00	-4,823.78	4,940.77	1,868.33	1,617.83	250.50	7.458	
15,900.00	7,618.00	7,570.00	7,570.00	120.94	131.14	-90.00	-4,823.78	4,940.77	1,906.84	1,654.93	251.91	7.570	
16,000.00	7,618.00	7,570.00	7,570.00	122.53	131.14	-90.00	-4,823.78	4,940.77	1,949.73	1,696.67	253.05	7.705	
16,100.00	7,618.00	7,570.00	7,570.00	124.12	131.14	-90.00	-4,823.78	4,940.77	1,996.70	1,742.75	253.96	7.862	
16,200.00	7,618.00	7,570.00	7,570.00	125.72	131.14	-90.00	-4,823.78	4,940.77	2,047.49	1,792.85	254.64	8.041	
16,300.00	7,618.00	7,570.00	7,570.00	127.32	131.14	-90.00	-4,823.78	4,940.77	2,101.81	1,846.69	255.12	8.238	
16,400.00	7,618.00	7,570.00	7,570.00	128.93	131.14	-90.00	-4,823.78	4,940.77	2,159.40	1,903.96	255.44	8.454	
16,500.00	7,618.00	7,570.00	7,570.00	130.54	131.14	-90.00	-4,823.78	4,940.77	2,220.00	1,964.39	255.60	8.685	
16,600.00	7,618.00	7,570.00	7,570.00	132.15	131.14	-90.00	-4,823.78	4,940.77	2,283.37	2,027.73	255.64	8.932	
16,700.00	7,618.00	7,570.00	7,570.00	133.77	131.14	-90.00	-4,823.78	4,940.77	2,349.29	2,093.72	255.57	9.192	
16,800.00	7,618.00	7,570.00	7,570.00	135.39	131.14	-90.00	-4,823.78	4,940.77	2,417.55	2,162.14	255.41	9.465	
16,900.00	7,618.00	7,570.00	7,570.00	137.01	131.14	-90.00	-4,823.78	4,940.77	2,487.96	2,232.78	255.18	9.750	
17,000.00	7,618.00	7,570.00	7,570.00	138.64	131.14	-90.00	-4,823.78	4,940.77	2,560.34	2,305.45	254.89	10.045	
17,100.00	7,618.00	7,570.00	7,570.00	140.27	131.14	-90.00	-4,823.78	4,940.77	2,634.52	2,379.98	254.54	10.350	
17,200.00	7,618.00	7,570.00	7,570.00	141.91	131.14	-90.00	-4,823.78	4,940.77	2,710.37	2,456.21	254.16	10.664	
17,300.00	7,618.00	7,570.00	7,570.00	143.55	131.14	-90.00	-4,823.78	4,940.77	2,787.74	2,533.99	253.75	10.986	
17,400.00	7,618.00	7,570.00	7,570.00	145.19	131.14	-90.00	-4,823.78	4,940.77	2,866.51	2,613.19	253.32	11.316	
17,500.00	7,618.00	7,570.00	7,570.00	146.83	131.14	-90.00	-4,823.78	4,940.77	2,946.57	2,693.70	252.87	11.653	
17,600.00	7,618.00	7,570.00	7,570.00	148.48	131.14	-90.00	-4,823.78	4,940.77	3,027.81	2,775.41	252.41	11.996	
17,700.00	7,618.00	7,570.00	7,570.00	150.13	131.14	-90.00	-4,823.78	4,940.77	3,110.15	2,858.22	251.94	12.345	
17,800.00	7,618.00	7,570.00	7,570.00	151.78	131.14	-90.00	-4,823.78	4,940.77	3,193.50	2,942.03	251.47	12.700	
17,900.00	7,618.00	7,570.00	7,570.00	153.43	131.14	-90.00	-4,823.78	4,940.77	3,277.78	3,026.79	250.99	13.059	
18,000.00	7,618.00	7,570.00	7,570.00	155.09	131.14	-90.00	-4,823.78	4,940.77	3,362.92	3,112.40	250.52	13.424	
18,100.00	7,618.00	7,570.00	7,570.00	156.75	131.14	-90.00	-4,823.78	4,940.77	3,448.86	3,198.80	250.06	13.792	
18,200.00	7,618.00	7,570.00	7,570.00	158.41	131.14	-90.00	-4,823.78	4,940.77	3,535.53	3,285.94	249.59	14.165	
18,300.00	7,618.00	7,570.00	7,570.00	160.07	131.14	-90.00	-4,823.78	4,940.77	3,622.90	3,373.76	249.14	14.542	
18,400.00	7,618.00	7,570.00	7,570.00	161.74	131.14	-90.00	-4,823.78	4,940.77	3,710.90	3,462.20	248.69	14.922	
18,500.00	7,618.00	7,570.00	7,570.00	163.41	131.14	-90.00	-4,823.78	4,940.77	3,799.50	3,551.24	248.26	15.305	
18,600.00	7,618.00	7,570.00	7,570.00	165.08	131.14	-90.00	-4,823.78	4,940.77	3,888.64	3,640.82	247.83	15.691	
18,700.00	7,618.00	7,570.00	7,570.00	166.75	131.14	-90.00	-4,823.78	4,940.77	3,978.31	3,730.90	247.41	16.080	
18,711.30	7,618.00	7,570.00	7,570.00	166.94	131.14	-90.00	-4,823.78	4,940.77	3,988.47	3,741.11	247.36	16.124	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	142.65	-4,088.21	3,120.30	5,142.99				
100.00	100.00	77.00	77.00	0.13	0.60	142.65	-4,088.21	3,120.30	5,142.93	5,142.20	0.73	7,021.408	
200.00	200.00	177.00	177.00	0.49	2.12	142.65	-4,088.21	3,120.30	5,142.93	5,140.32	2.61	1,967.853	
300.00	300.00	277.00	277.00	0.85	3.87	142.65	-4,088.21	3,120.30	5,142.93	5,138.22	4.72	1,090.234	
400.00	400.00	377.00	377.00	1.21	5.61	142.65	-4,088.21	3,120.30	5,142.93	5,136.11	6.82	753.977	
500.00	500.00	477.00	477.00	1.57	7.36	142.65	-4,088.21	3,120.30	5,142.93	5,134.01	8.92	576.247	
600.00	600.00	577.00	577.00	1.93	9.10	142.65	-4,088.21	3,120.30	5,142.93	5,131.91	11.03	466.324	
700.00	700.00	677.00	677.00	2.29	10.85	142.65	-4,088.21	3,120.30	5,142.93	5,129.80	13.13	391.619	
800.00	800.00	777.00	777.00	2.64	12.59	142.65	-4,088.21	3,120.30	5,142.93	5,127.70	15.24	337.545	
900.00	900.00	877.00	877.00	3.00	14.34	142.65	-4,088.21	3,120.30	5,142.93	5,125.59	17.34	296.592	
1,000.00	999.98	976.98	976.98	3.36	16.08	85.48	-4,088.21	3,120.30	5,142.80	5,123.36	19.44	264.552	
1,100.00	1,099.84	1,076.84	1,076.84	3.71	17.83	85.55	-4,088.21	3,120.30	5,142.39	5,120.85	21.54	238.786	
1,200.00	1,199.45	1,176.45	1,176.45	4.07	19.56	85.66	-4,088.21	3,120.30	5,141.71	5,118.08	23.63	217.568	
1,300.00	1,298.70	1,275.70	1,275.70	4.44	21.30	85.81	-4,088.21	3,120.30	5,140.80	5,115.07	25.73	199.776	
1,400.00	1,397.47	1,374.47	1,374.47	4.82	23.02	86.00	-4,088.21	3,120.30	5,139.67	5,111.83	27.84	184.623	
1,500.00	1,495.62	1,472.62	1,472.62	5.22	24.73	86.24	-4,088.21	3,120.30	5,138.35	5,108.40	29.95	171.542	
1,600.00	1,593.06	1,570.06	1,570.06	5.65	26.43	86.51	-4,088.21	3,120.30	5,136.89	5,104.81	32.08	160.118	
1,700.00	1,689.64	1,666.64	1,666.64	6.11	28.12	86.82	-4,088.21	3,120.30	5,135.34	5,101.11	34.23	150.038	
1,800.00	1,785.27	1,762.27	1,762.27	6.61	29.79	87.16	-4,088.21	3,120.30	5,133.73	5,097.34	36.39	141.067	
1,900.00	1,879.82	1,856.82	1,856.82	7.15	31.44	87.54	-4,088.21	3,120.30	5,132.14	5,093.56	38.58	133.021	
2,000.00	1,973.17	1,950.17	1,950.17	7.73	33.07	87.94	-4,088.21	3,120.30	5,130.63	5,089.83	40.80	125.758	
2,100.00	2,065.21	2,042.21	2,042.21	8.37	34.67	88.37	-4,088.21	3,120.30	5,129.26	5,086.22	43.04	119.164	
2,200.00	2,155.84	2,132.84	2,132.84	9.07	36.26	88.82	-4,088.21	3,120.30	5,128.12	5,082.80	45.32	113.150	
2,300.00	2,244.94	2,221.94	2,221.94	9.82	37.81	89.29	-4,088.21	3,120.30	5,127.28	5,079.65	47.63	107.642	
2,400.00	2,332.39	2,309.39	2,309.39	10.64	39.34	89.77	-4,088.21	3,120.30	5,126.83	5,076.85	49.98	102.582	
2,446.43	2,372.41	2,349.41	2,349.41	11.05	40.04	90.00	-4,088.21	3,120.30	5,126.78	5,075.69	51.09	100.356	
2,500.00	2,418.11	2,404.89	2,395.11	11.53	41.00	90.27	-4,088.21	3,120.30	5,126.85	5,074.32	52.53	97.601	
2,558.91	2,467.74	2,444.74	2,444.74	12.08	41.70	90.56	-4,088.21	3,120.30	5,127.12	5,073.35	53.78	95.344	
2,600.00	2,502.13	2,479.13	2,479.13	12.47	42.30	90.77	-4,088.21	3,120.30	5,127.44	5,072.67	54.77	93.618	
2,700.00	2,585.83	2,562.83	2,562.83	13.45	43.76	91.28	-4,088.21	3,120.30	5,128.60	5,071.40	57.21	89.648	
2,800.00	2,669.53	2,646.53	2,646.53	14.44	45.22	91.79	-4,088.21	3,120.30	5,130.36	5,070.69	59.66	85.987	
2,900.00	2,753.22	2,730.22	2,730.22	15.46	46.68	92.30	-4,088.21	3,120.30	5,132.69	5,070.56	62.13	82.606	
3,000.00	2,836.92	2,813.92	2,813.92	16.48	48.14	92.81	-4,088.21	3,120.30	5,135.61	5,070.99	64.62	79.479	
3,100.00	2,920.62	2,902.38	2,897.62	17.52	49.69	93.32	-4,088.21	3,120.30	5,139.11	5,071.92	67.19	76.488	
3,200.00	3,004.32	2,981.32	2,981.32	18.56	51.07	93.83	-4,088.21	3,120.30	5,143.19	5,073.59	69.60	73.895	
3,300.00	3,088.01	3,065.01	3,065.01	19.61	52.53	94.34	-4,088.21	3,120.30	5,147.84	5,075.74	72.10	71.398	
3,400.00	3,171.71	3,148.71	3,148.71	20.67	53.99	94.85	-4,088.21	3,120.30	5,153.08	5,078.47	74.60	69.072	
3,500.00	3,255.41	3,232.41	3,232.41	21.73	55.45	95.36	-4,088.21	3,120.30	5,158.89	5,081.78	77.11	66.903	
3,600.00	3,339.10	3,316.10	3,316.10	22.80	56.91	95.87	-4,088.21	3,120.30	5,165.27	5,085.65	79.62	64.878	
3,700.00	3,422.80	3,400.20	3,399.80	23.87	58.38	96.37	-4,088.21	3,120.30	5,172.22	5,090.09	82.13	62.977	
3,800.00	3,506.50	3,483.50	3,483.50	24.94	59.83	96.88	-4,088.21	3,120.30	5,179.75	5,095.12	84.63	61.207	
3,900.00	3,590.20	3,567.20	3,567.20	26.02	61.29	97.38	-4,088.21	3,120.30	5,187.83	5,100.70	87.13	59.541	
4,000.00	3,673.89	3,650.89	3,650.89	27.10	62.75	97.88	-4,088.21	3,120.30	5,196.49	5,106.85	89.63	57.975	
4,100.00	3,757.59	3,734.59	3,734.59	28.18	64.21	98.39	-4,088.21	3,120.30	5,205.70	5,113.57	92.13	56.502	
4,200.00	3,841.29	3,818.29	3,818.29	29.26	65.67	98.89	-4,088.21	3,120.30	5,215.47	5,120.84	94.63	55.115	
4,300.00	3,924.99	3,901.99	3,901.99	30.35	67.13	99.39	-4,088.21	3,120.30	5,225.80	5,128.68	97.12	53.807	
4,400.00	4,008.68	3,985.68	3,985.68	31.44	68.59	99.88	-4,088.21	3,120.30	5,236.68	5,137.07	99.61	52.572	
4,500.00	4,092.38	4,069.38	4,069.38	32.52	70.06	100.38	-4,088.21	3,120.30	5,248.10	5,146.01	102.09	51.405	
4,600.00	4,176.08	4,153.08	4,153.08	33.62	71.52	100.87	-4,088.21	3,120.30	5,260.07	5,155.50	104.57	50.300	
4,700.00	4,259.77	4,236.77	4,236.77	34.71	72.98	101.37	-4,088.21	3,120.30	5,272.59	5,165.54	107.05	49.254	
4,800.00	4,343.47	4,320.47	4,320.47	35.80	74.44	101.86	-4,088.21	3,120.30	5,285.63	5,176.12	109.52	48.263	
4,900.00	4,427.17	4,404.17	4,404.17	36.89	75.90	102.35	-4,088.21	3,120.30	5,299.22	5,187.23	111.98	47.323	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,510.87	4,487.87	4,487.87	37.99	77.36	102.83	-4,088.21	3,120.30	5,313.33	5,198.89	114.44	46.430	
5,100.00	4,594.56	4,571.56	4,571.56	39.08	78.82	103.32	-4,088.21	3,120.30	5,327.96	5,211.07	116.89	45.581	
5,200.00	4,678.26	4,655.26	4,655.26	40.18	80.28	103.80	-4,088.21	3,120.30	5,343.12	5,223.78	119.34	44.774	
5,300.00	4,761.96	4,738.96	4,738.96	41.28	81.74	104.29	-4,088.21	3,120.30	5,358.79	5,237.01	121.77	44.006	
5,400.00	4,845.66	4,822.66	4,822.66	42.37	83.20	104.77	-4,088.21	3,120.30	5,374.97	5,250.77	124.21	43.275	
5,500.00	4,929.35	4,906.35	4,906.35	43.47	84.66	105.24	-4,088.21	3,120.30	5,391.66	5,265.03	126.63	42.578	
5,600.00	5,013.05	5,009.95	4,990.05	44.57	86.47	105.72	-4,088.21	3,120.30	5,408.85	5,279.46	129.40	41.801	
5,700.00	5,096.75	5,073.75	5,073.75	45.67	87.58	106.19	-4,088.21	3,120.30	5,426.54	5,295.08	131.46	41.279	
5,800.00	5,180.45	5,157.45	5,157.45	46.77	89.05	106.66	-4,088.21	3,120.30	5,444.73	5,310.86	133.86	40.674	
5,900.00	5,264.14	5,241.14	5,241.14	47.87	90.51	107.13	-4,088.21	3,120.30	5,463.40	5,327.14	136.26	40.095	
6,000.00	5,347.84	5,324.84	5,324.84	48.97	91.97	107.60	-4,088.21	3,120.30	5,482.55	5,343.90	138.65	39.543	
6,100.00	5,431.54	5,408.54	5,408.54	50.07	93.43	108.06	-4,088.21	3,120.30	5,502.18	5,361.15	141.03	39.014	
6,200.00	5,515.23	5,507.77	5,492.23	51.17	95.16	108.52	-4,088.21	3,120.30	5,522.28	5,378.61	143.67	38.436	
6,300.00	5,598.93	5,575.93	5,575.93	52.27	96.35	108.98	-4,088.21	3,120.30	5,542.85	5,397.08	145.77	38.025	
6,400.00	5,682.63	5,659.63	5,659.63	53.38	97.81	109.44	-4,088.21	3,120.30	5,563.88	5,415.76	148.13	37.562	
6,500.00	5,766.33	5,743.33	5,743.33	54.48	99.27	109.89	-4,088.21	3,120.30	5,585.37	5,434.90	150.48	37.118	
6,600.00	5,850.02	5,827.02	5,827.02	55.58	100.73	110.34	-4,088.21	3,120.30	5,607.31	5,454.50	152.82	36.693	
6,700.00	5,933.72	5,910.72	5,910.72	56.68	102.19	110.79	-4,088.21	3,120.30	5,629.70	5,474.55	155.15	36.285	
6,800.00	6,017.42	6,005.58	5,994.42	57.79	103.85	111.24	-4,088.21	3,120.30	5,652.53	5,494.86	157.67	35.850	
6,900.00	6,101.12	6,078.12	6,078.12	58.89	105.11	111.68	-4,088.21	3,120.30	5,675.80	5,516.00	159.79	35.519	
7,000.00	6,184.81	6,161.81	6,161.81	59.99	106.58	112.12	-4,088.21	3,120.30	5,699.49	5,537.39	162.10	35.159	
7,100.00	6,268.51	6,245.51	6,245.51	61.10	108.04	112.56	-4,088.21	3,120.30	5,723.61	5,559.20	164.41	34.814	
7,200.00	6,352.21	6,329.21	6,329.21	62.20	109.50	113.00	-4,088.21	3,120.30	5,748.15	5,581.45	166.70	34.482	
7,300.00	6,435.90	6,412.90	6,412.90	63.31	110.96	113.43	-4,088.21	3,120.30	5,773.11	5,604.12	168.99	34.163	
7,400.00	6,519.60	6,503.40	6,496.60	64.41	112.54	113.86	-4,088.21	3,120.30	5,798.47	5,627.09	171.38	33.833	
7,500.00	6,603.30	6,580.30	6,580.30	65.51	113.88	114.28	-4,088.21	3,120.30	5,824.24	5,650.70	173.53	33.562	
7,600.00	6,687.00	6,664.00	6,664.00	66.62	115.34	114.71	-4,088.21	3,120.30	5,850.40	5,674.61	175.80	33.279	
7,700.00	6,770.69	6,747.69	6,747.69	67.72	116.80	115.13	-4,088.21	3,120.30	5,876.96	5,698.91	178.05	33.007	
7,800.00	6,854.39	6,831.39	6,831.39	68.83	118.26	115.55	-4,088.21	3,120.30	5,903.91	5,723.61	180.30	32.745	
7,900.00	6,938.09	6,915.09	6,915.09	69.93	119.72	115.96	-4,088.21	3,120.30	5,931.24	5,748.70	182.54	32.493	
7,933.18	6,965.86	6,942.86	6,942.86	70.30	120.21	116.10	-4,088.21	3,120.30	5,940.39	5,757.11	183.28	32.412	
7,950.00	6,980.00	6,957.00	6,957.00	70.49	120.45	113.87	-4,088.21	3,120.30	5,944.81	5,761.15	183.65	32.370	
8,000.00	7,022.68	7,000.32	6,999.68	71.01	121.21	106.55	-4,088.21	3,120.30	5,955.17	5,770.37	184.80	32.225	
8,050.00	7,066.06	7,043.06	7,043.06	71.51	121.96	98.33	-4,088.21	3,120.30	5,961.33	5,775.39	185.93	32.062	
8,100.00	7,109.82	7,086.82	7,086.82	71.97	122.72	89.54	-4,088.21	3,120.30	5,963.24	5,776.16	187.08	31.876	
8,150.00	7,153.63	7,130.63	7,130.63	72.38	123.48	80.68	-4,088.21	3,120.30	5,960.89	5,772.68	188.21	31.671	
8,200.00	7,197.14	7,174.14	7,174.14	72.74	124.24	72.23	-4,088.21	3,120.30	5,954.29	5,764.97	189.33	31.450	
8,250.00	7,240.04	7,217.04	7,217.04	73.05	124.99	64.59	-4,088.21	3,120.30	5,943.50	5,753.08	190.41	31.214	
8,300.00	7,281.99	7,258.99	7,258.99	73.31	125.72	57.95	-4,088.21	3,120.30	5,928.58	5,737.12	191.46	30.965	
8,350.00	7,322.67	7,300.33	7,299.67	73.52	126.45	52.32	-4,088.21	3,120.30	5,909.64	5,717.17	192.47	30.704	
8,400.00	7,361.77	7,338.77	7,338.77	73.68	127.12	47.64	-4,088.21	3,120.30	5,886.82	5,693.42	193.40	30.438	
8,450.00	7,399.01	7,376.01	7,376.01	73.78	127.77	43.79	-4,088.21	3,120.30	5,860.28	5,665.99	194.29	30.162	
8,500.00	7,434.08	7,411.08	7,411.08	73.85	128.38	40.64	-4,088.21	3,120.30	5,830.22	5,635.10	195.12	29.881	
8,550.00	7,466.74	7,443.74	7,443.74	73.87	128.95	38.10	-4,088.21	3,120.30	5,796.85	5,600.97	195.87	29.595	
8,600.00	7,496.72	7,473.72	7,473.72	73.85	129.47	36.06	-4,088.21	3,120.30	5,760.41	5,563.85	196.56	29.306	
8,650.00	7,523.80	7,500.80	7,500.80	73.79	129.94	34.46	-4,088.21	3,120.30	5,721.16	5,523.99	197.17	29.017	
8,700.00	7,547.77	7,524.77	7,524.77	73.70	130.36	33.26	-4,088.21	3,120.30	5,679.40	5,481.70	197.70	28.727	
8,750.00	7,568.45	7,545.45	7,545.45	73.58	130.72	32.42	-4,088.21	3,120.30	5,635.44	5,437.28	198.16	28.439	
8,800.00	7,585.69	7,562.69	7,562.69	73.43	131.03	31.97	-4,088.21	3,120.30	5,589.58	5,391.05	198.53	28.155	
8,850.00	7,599.35	7,576.35	7,576.35	73.26	131.26	32.00	-4,088.21	3,120.30	5,542.18	5,343.36	198.82	27.875	
8,900.00	7,609.33	7,586.33	7,586.33	73.07	131.44	32.82	-4,088.21	3,120.30	5,493.59	5,294.56	199.03	27.601	
8,950.00	7,615.55	7,607.45	7,592.55	72.87	131.81	35.83	-4,088.21	3,120.30	5,444.16	5,244.74	199.43	27.299	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	7,605.03	7,594.97	72.65	131.76	63.94	-4,088.21	3,120.30	5,394.28	5,194.89	199.39	27.053	
9,006.60	7,618.00	7,605.00	7,595.00	72.62	131.76	90.00	-4,088.21	3,120.30	5,387.68	5,188.29	199.39	27.020	
9,100.00	7,618.00	7,605.00	7,595.00	72.22	131.76	90.00	-4,088.21	3,120.30	5,294.29	5,094.90	199.40	26.551	
9,200.00	7,618.00	7,605.00	7,595.00	71.80	131.76	90.00	-4,088.21	3,120.30	5,194.31	4,994.90	199.41	26.049	
9,300.00	7,618.00	7,605.00	7,595.00	71.41	131.76	90.00	-4,088.21	3,120.30	5,094.32	4,894.91	199.41	25.547	
9,400.00	7,618.00	7,605.00	7,595.00	71.04	131.76	90.00	-4,088.21	3,120.30	4,994.33	4,794.91	199.42	25.044	
9,500.00	7,618.00	7,605.00	7,595.00	70.68	131.76	90.00	-4,088.21	3,120.30	4,894.35	4,694.91	199.43	24.542	
9,600.00	7,618.00	7,605.00	7,595.00	70.35	131.76	90.00	-4,088.21	3,120.30	4,794.36	4,594.92	199.44	24.039	
9,700.00	7,618.00	7,605.00	7,595.00	70.04	131.76	90.00	-4,088.21	3,120.30	4,694.37	4,494.92	199.45	23.536	
9,800.00	7,618.00	7,605.00	7,595.00	69.75	131.76	90.00	-4,088.21	3,120.30	4,594.39	4,394.93	199.46	23.034	
9,900.00	7,618.00	7,605.00	7,595.00	69.47	131.76	90.00	-4,088.21	3,120.30	4,494.41	4,294.93	199.48	22.531	
10,000.00	7,618.00	7,605.00	7,595.00	69.22	131.76	90.00	-4,088.21	3,120.30	4,394.42	4,194.93	199.49	22.028	
10,100.00	7,618.00	7,605.00	7,595.00	68.99	131.76	90.00	-4,088.21	3,120.30	4,294.44	4,094.93	199.51	21.525	
10,200.00	7,618.00	7,605.00	7,595.00	68.78	131.76	90.00	-4,088.21	3,120.30	4,194.46	3,994.94	199.52	21.022	
10,300.00	7,618.00	7,605.00	7,595.00	68.59	131.76	90.00	-4,088.21	3,120.30	4,094.48	3,894.94	199.54	20.519	
10,400.00	7,618.00	7,605.00	7,595.00	68.42	131.76	90.00	-4,088.21	3,120.30	3,994.50	3,794.94	199.56	20.017	
10,500.00	7,618.00	7,605.00	7,595.00	68.28	131.76	90.00	-4,088.21	3,120.30	3,894.52	3,694.94	199.58	19.514	
10,600.00	7,618.00	7,605.00	7,595.00	68.16	131.76	90.00	-4,088.21	3,120.30	3,794.54	3,594.94	199.60	19.011	
10,700.00	7,618.00	7,605.00	7,595.00	68.06	131.76	90.00	-4,088.21	3,120.30	3,694.57	3,494.94	199.63	18.508	
10,800.00	7,618.00	7,605.00	7,595.00	67.99	131.76	90.00	-4,088.21	3,120.30	3,594.59	3,394.94	199.65	18.004	
10,900.00	7,618.00	7,605.00	7,595.00	67.95	131.76	90.00	-4,088.21	3,120.30	3,494.62	3,294.94	199.68	17.501	
11,000.00	7,618.00	7,605.00	7,595.00	67.95	131.76	90.00	-4,088.21	3,120.30	3,394.65	3,194.94	199.70	16.998	
11,100.00	7,618.00	7,605.00	7,595.00	67.97	131.76	90.00	-4,088.21	3,120.30	3,294.68	3,094.94	199.74	16.495	
11,200.00	7,618.00	7,605.00	7,595.00	68.04	131.76	90.00	-4,088.21	3,120.30	3,194.71	2,994.94	199.77	15.992	
11,300.00	7,618.00	7,605.00	7,595.00	68.15	131.76	90.00	-4,088.21	3,120.30	3,094.74	2,894.94	199.80	15.489	
11,400.00	7,618.00	7,605.00	7,595.00	68.30	131.76	90.00	-4,088.21	3,120.30	2,994.78	2,794.94	199.84	14.986	
11,500.00	7,618.00	7,605.00	7,595.00	68.50	131.76	90.00	-4,088.21	3,120.30	2,894.82	2,694.94	199.88	14.483	
11,600.00	7,618.00	7,605.00	7,595.00	68.75	131.76	90.00	-4,088.21	3,120.30	2,794.86	2,594.93	199.92	13.980	
11,700.00	7,618.00	7,605.00	7,595.00	69.06	131.76	90.00	-4,088.21	3,120.30	2,694.90	2,494.93	199.97	13.477	
11,800.00	7,618.00	7,605.00	7,595.00	69.44	131.76	90.00	-4,088.21	3,120.30	2,594.95	2,394.93	200.02	12.974	
11,900.00	7,618.00	7,605.00	7,595.00	69.88	131.76	90.00	-4,088.21	3,120.30	2,495.00	2,294.93	200.07	12.471	
12,000.00	7,618.00	7,605.00	7,595.00	70.39	131.76	90.00	-4,088.21	3,120.30	2,395.06	2,194.93	200.13	11.968	
12,100.00	7,618.00	7,605.00	7,595.00	70.97	131.76	90.00	-4,088.21	3,120.30	2,295.12	2,094.92	200.19	11.465	
12,200.00	7,618.00	7,605.00	7,595.00	71.63	131.76	90.00	-4,088.21	3,120.30	2,195.18	1,994.92	200.26	10.962	
12,300.00	7,618.00	7,605.00	7,595.00	72.35	131.76	90.00	-4,088.21	3,120.30	2,095.25	1,894.92	200.34	10.459	
12,400.00	7,618.00	7,605.00	7,595.00	73.15	131.76	90.00	-4,088.21	3,120.30	1,995.33	1,794.92	200.42	9.956	
12,500.00	7,618.00	7,605.00	7,595.00	74.01	131.76	90.00	-4,088.21	3,120.30	1,895.42	1,694.91	200.51	9.453	
12,600.00	7,618.00	7,605.00	7,595.00	74.93	131.76	90.00	-4,088.21	3,120.30	1,795.52	1,594.91	200.61	8.950	
12,700.00	7,618.00	7,605.00	7,595.00	75.91	131.76	90.00	-4,088.21	3,120.30	1,695.63	1,494.91	200.72	8.448	
12,800.00	7,618.00	7,605.00	7,595.00	76.95	131.76	90.00	-4,088.21	3,120.30	1,595.75	1,394.91	200.84	7.945	
12,900.00	7,618.00	7,605.00	7,595.00	78.04	131.76	90.00	-4,088.21	3,120.30	1,495.89	1,294.91	200.98	7.443	
13,000.00	7,618.00	7,605.00	7,595.00	79.16	131.76	90.00	-4,088.21	3,120.30	1,396.05	1,194.91	201.14	6.941	
13,100.00	7,618.00	7,605.00	7,595.00	80.33	131.76	90.00	-4,088.21	3,120.30	1,296.23	1,094.91	201.33	6.438	
13,200.00	7,618.00	7,605.00	7,595.00	81.54	131.76	90.00	-4,088.21	3,120.30	1,196.45	994.91	201.54	5.937	
13,300.00	7,618.00	7,605.00	7,595.00	82.78	131.76	90.00	-4,088.21	3,120.30	1,096.70	894.91	201.79	5.435	
13,400.00	7,618.00	7,605.00	7,595.00	84.05	131.76	90.00	-4,088.21	3,120.30	997.01	794.92	202.09	4.933	
13,500.00	7,618.00	7,605.00	7,595.00	85.35	131.76	90.00	-4,088.21	3,120.30	897.38	694.92	202.46	4.432	
13,600.00	7,618.00	7,605.00	7,595.00	86.67	131.76	90.00	-4,088.21	3,120.30	797.85	594.93	202.92	3.932	
13,700.00	7,618.00	7,605.00	7,595.00	88.02	131.76	90.00	-4,088.21	3,120.30	698.45	494.94	203.50	3.432	
13,800.00	7,618.00	7,605.00	7,595.00	89.38	131.76	90.00	-4,088.21	3,120.30	599.24	394.96	204.29	2.933	
13,900.00	7,618.00	7,605.00	7,595.00	90.77	131.76	90.00	-4,088.21	3,120.30	500.36	294.98	205.38	2.436	
14,000.00	7,618.00	7,605.00	7,595.00	92.17	131.76	90.00	-4,088.21	3,120.30	402.03	195.02	207.00	1.942	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,618.00	7,605.00	7,595.00	93.59	131.76	90.00	-4,088.21	3,120.30	304.78	95.13	209.65	1.454	Level 3
14,200.00	7,618.00	7,605.00	7,595.00	95.02	131.76	90.00	-4,088.21	3,120.30	210.14	-4.40	214.54	0.979	Level 1
14,300.00	7,618.00	7,605.00	7,595.00	96.47	131.76	90.00	-4,088.21	3,120.30	124.20	-100.10	224.31	0.554	Level 1
14,393.67	7,618.00	7,605.00	7,595.00	97.84	131.76	90.00	-4,088.21	3,120.30	81.57	-140.84	222.41	0.367	Level 1, CC, ES, SF
14,400.00	7,618.00	7,605.00	7,595.00	97.93	131.76	90.00	-4,088.21	3,120.30	81.81	-138.35	220.16	0.372	Level 1
14,500.00	7,618.00	7,605.00	7,595.00	99.41	131.76	90.00	-4,088.21	3,120.30	134.02	-57.09	191.11	0.701	Level 1
14,600.00	7,618.00	7,605.00	7,595.00	100.89	131.76	90.00	-4,088.21	3,120.30	221.87	32.19	189.68	1.170	Level 2
14,700.00	7,618.00	7,605.00	7,595.00	102.38	131.76	90.00	-4,088.21	3,120.30	317.01	125.56	191.45	1.656	
14,800.00	7,618.00	7,605.00	7,595.00	103.89	131.76	90.00	-4,088.21	3,120.30	414.44	221.54	192.91	2.148	
14,900.00	7,618.00	7,605.00	7,595.00	105.40	131.76	90.00	-4,088.21	3,120.30	512.86	318.90	193.96	2.644	
15,000.00	7,618.00	7,605.00	7,595.00	106.92	131.76	90.00	-4,088.21	3,120.30	611.80	417.06	194.74	3.142	
15,100.00	7,618.00	7,605.00	7,595.00	108.45	131.76	90.00	-4,088.21	3,120.30	711.03	515.70	195.33	3.640	
15,200.00	7,618.00	7,605.00	7,595.00	109.99	131.76	90.00	-4,088.21	3,120.30	810.45	614.65	195.80	4.139	
15,300.00	7,618.00	7,605.00	7,595.00	111.54	131.76	90.00	-4,088.21	3,120.30	910.00	713.82	196.18	4.639	
15,400.00	7,618.00	7,605.00	7,595.00	113.09	131.76	90.00	-4,088.21	3,120.30	1,009.63	813.15	196.49	5.138	
15,500.00	7,618.00	7,605.00	7,595.00	114.65	131.76	90.00	-4,088.21	3,120.30	1,109.34	912.59	196.75	5.638	
15,600.00	7,618.00	7,605.00	7,595.00	116.21	131.76	90.00	-4,088.21	3,120.30	1,209.09	1,012.11	196.98	6.138	
15,700.00	7,618.00	7,605.00	7,595.00	117.78	131.76	90.00	-4,088.21	3,120.30	1,308.88	1,111.71	197.17	6.638	
15,800.00	7,618.00	7,605.00	7,595.00	119.36	131.76	90.00	-4,088.21	3,120.30	1,408.70	1,211.35	197.34	7.138	
15,900.00	7,618.00	7,605.00	7,595.00	120.94	131.76	90.00	-4,088.21	3,120.30	1,508.54	1,311.05	197.50	7.638	
16,000.00	7,618.00	7,605.00	7,595.00	122.53	131.76	90.00	-4,088.21	3,120.30	1,608.40	1,410.77	197.63	8.138	
16,100.00	7,618.00	7,605.00	7,595.00	124.12	131.76	90.00	-4,088.21	3,120.30	1,708.28	1,510.52	197.76	8.638	
16,200.00	7,618.00	7,605.00	7,595.00	125.72	131.76	90.00	-4,088.21	3,120.30	1,808.18	1,610.30	197.87	9.138	
16,300.00	7,618.00	7,605.00	7,595.00	127.32	131.76	90.00	-4,088.21	3,120.30	1,908.08	1,710.10	197.98	9.638	
16,400.00	7,618.00	7,605.00	7,595.00	128.93	131.76	90.00	-4,088.21	3,120.30	2,007.99	1,809.91	198.08	10.137	
16,500.00	7,618.00	7,605.00	7,595.00	130.54	131.76	90.00	-4,088.21	3,120.30	2,107.91	1,909.74	198.17	10.637	
16,600.00	7,618.00	7,605.00	7,595.00	132.15	131.76	90.00	-4,088.21	3,120.30	2,207.84	2,009.59	198.25	11.136	
16,700.00	7,618.00	7,605.00	7,595.00	133.77	131.76	90.00	-4,088.21	3,120.30	2,307.78	2,109.44	198.33	11.636	
16,800.00	7,618.00	7,605.00	7,595.00	135.39	131.76	90.00	-4,088.21	3,120.30	2,407.72	2,209.30	198.41	12.135	
16,900.00	7,618.00	7,605.00	7,595.00	137.01	131.76	90.00	-4,088.21	3,120.30	2,507.66	2,309.18	198.48	12.634	
17,000.00	7,618.00	7,605.00	7,595.00	138.64	131.76	90.00	-4,088.21	3,120.30	2,607.61	2,409.06	198.55	13.133	
17,100.00	7,618.00	7,605.00	7,595.00	140.27	131.76	90.00	-4,088.21	3,120.30	2,707.56	2,508.94	198.62	13.632	
17,200.00	7,618.00	7,605.00	7,595.00	141.91	131.76	90.00	-4,088.21	3,120.30	2,807.52	2,608.83	198.69	14.130	
17,300.00	7,618.00	7,605.00	7,595.00	143.55	131.76	90.00	-4,088.21	3,120.30	2,907.48	2,708.73	198.75	14.629	
17,400.00	7,618.00	7,605.00	7,595.00	145.19	131.76	90.00	-4,088.21	3,120.30	3,007.44	2,808.63	198.81	15.127	
17,500.00	7,618.00	7,605.00	7,595.00	146.83	131.76	90.00	-4,088.21	3,120.30	3,107.41	2,908.54	198.87	15.626	
17,600.00	7,618.00	7,605.00	7,595.00	148.48	131.76	90.00	-4,088.21	3,120.30	3,207.37	3,008.45	198.92	16.124	
17,700.00	7,618.00	7,605.00	7,595.00	150.13	131.76	90.00	-4,088.21	3,120.30	3,307.34	3,108.36	198.98	16.622	
17,800.00	7,618.00	7,605.00	7,595.00	151.78	131.76	90.00	-4,088.21	3,120.30	3,407.31	3,208.28	199.03	17.119	
17,900.00	7,618.00	7,605.00	7,595.00	153.43	131.76	90.00	-4,088.21	3,120.30	3,507.28	3,308.20	199.09	17.617	
18,000.00	7,618.00	7,605.00	7,595.00	155.09	131.76	90.00	-4,088.21	3,120.30	3,607.26	3,408.12	199.14	18.114	
18,100.00	7,618.00	7,605.00	7,595.00	156.75	131.76	90.00	-4,088.21	3,120.30	3,707.23	3,508.04	199.19	18.611	
18,200.00	7,618.00	7,605.00	7,595.00	158.41	131.76	90.00	-4,088.21	3,120.30	3,807.21	3,607.97	199.24	19.108	
18,300.00	7,618.00	7,605.00	7,595.00	160.07	131.76	90.00	-4,088.21	3,120.30	3,907.19	3,707.89	199.29	19.605	
18,400.00	7,618.00	7,605.00	7,595.00	161.74	131.76	90.00	-4,088.21	3,120.30	4,007.16	3,807.82	199.34	20.102	
18,500.00	7,618.00	7,605.00	7,595.00	163.41	131.76	90.00	-4,088.21	3,120.30	4,107.14	3,907.75	199.39	20.598	
18,600.00	7,618.00	7,605.00	7,595.00	165.08	131.76	90.00	-4,088.21	3,120.30	4,207.13	4,007.69	199.44	21.095	
18,700.00	7,618.00	7,605.00	7,595.00	166.75	131.76	90.00	-4,088.21	3,120.30	4,307.11	4,107.62	199.49	21.591	
18,711.30	7,618.00	7,605.00	7,595.00	166.94	131.76	90.00	-4,088.21	3,120.30	4,318.41	4,118.91	199.49	21.647	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	145.58	-7,866.58	5,389.52	9,535.76				
100.00	100.00	74.00	74.00	0.13	0.57	145.58	-7,866.58	5,389.52	9,535.72	9,535.02	0.70	N/A	
200.00	200.00	174.00	174.00	0.49	2.06	145.58	-7,866.58	5,389.52	9,535.72	9,533.17	2.55	3,736.001	
300.00	300.00	274.00	274.00	0.85	3.80	145.58	-7,866.58	5,389.52	9,535.72	9,531.07	4.66	2,047.968	
400.00	400.00	374.00	374.00	1.21	5.55	145.58	-7,866.58	5,389.52	9,535.72	9,528.96	6.76	1,410.612	
500.00	500.00	474.00	474.00	1.57	7.30	145.58	-7,866.58	5,389.52	9,535.72	9,526.86	8.86	1,075.806	
600.00	600.00	574.00	574.00	1.93	9.04	145.58	-7,866.58	5,389.52	9,535.72	9,524.76	10.97	869.446	
700.00	700.00	674.00	674.00	2.29	10.79	145.58	-7,866.58	5,389.52	9,535.72	9,522.65	13.07	729.511	
800.00	800.00	774.00	774.00	2.64	12.53	145.58	-7,866.58	5,389.52	9,535.72	9,520.55	15.18	628.376	
900.00	900.00	874.00	874.00	3.00	14.28	145.58	-7,866.58	5,389.52	9,535.72	9,518.44	17.28	551.868	
1,000.00	999.98	973.98	973.98	3.36	16.02	88.41	-7,866.58	5,389.52	9,535.67	9,516.30	19.38	492.072	
1,100.00	1,099.84	1,073.84	1,073.84	3.71	17.76	88.44	-7,866.58	5,389.52	9,535.53	9,514.06	21.47	444.037	
1,200.00	1,199.45	1,173.45	1,173.45	4.07	19.50	88.50	-7,866.58	5,389.52	9,535.30	9,511.72	23.57	404.520	
1,300.00	1,298.70	1,272.70	1,272.70	4.44	21.24	88.58	-7,866.58	5,389.52	9,534.98	9,509.31	25.67	371.411	
1,400.00	1,397.47	1,371.47	1,371.47	4.82	22.96	88.68	-7,866.58	5,389.52	9,534.60	9,506.82	27.78	343.236	
1,500.00	1,495.62	1,469.62	1,469.62	5.22	24.67	88.80	-7,866.58	5,389.52	9,534.17	9,504.28	29.89	318.931	
1,600.00	1,593.06	1,567.06	1,567.06	5.65	26.37	88.94	-7,866.58	5,389.52	9,533.72	9,501.70	32.02	297.717	
1,700.00	1,689.64	1,663.64	1,663.64	6.11	28.06	89.10	-7,866.58	5,389.52	9,533.26	9,499.09	34.17	279.011	
1,800.00	1,785.27	1,759.27	1,759.27	6.61	29.73	89.27	-7,866.58	5,389.52	9,532.82	9,496.49	36.33	262.368	
1,900.00	1,879.82	1,853.82	1,853.82	7.15	31.38	89.47	-7,866.58	5,389.52	9,532.45	9,493.92	38.52	247.446	
2,000.00	1,973.17	1,947.17	1,947.17	7.73	33.01	89.67	-7,866.58	5,389.52	9,532.16	9,491.42	40.74	233.977	
2,100.00	2,065.21	2,039.21	2,039.21	8.37	34.61	89.89	-7,866.58	5,389.52	9,532.00	9,489.01	42.99	221.748	
2,147.30	2,108.26	2,082.26	2,082.26	8.70	35.36	90.00	-7,866.58	5,389.52	9,531.98	9,487.91	44.07	216.316	
2,200.00	2,155.84	2,129.84	2,129.84	9.07	36.20	90.12	-7,866.58	5,389.52	9,532.00	9,486.74	45.26	210.591	
2,300.00	2,244.94	2,218.94	2,218.94	9.82	37.75	90.36	-7,866.58	5,389.52	9,532.22	9,484.65	47.57	200.367	
2,400.00	2,332.39	2,306.39	2,306.39	10.64	39.28	90.61	-7,866.58	5,389.52	9,532.69	9,482.77	49.92	190.965	
2,500.00	2,418.11	2,407.89	2,392.11	11.53	41.05	90.86	-7,866.58	5,389.52	9,533.46	9,480.89	52.57	181.336	
2,558.91	2,467.74	2,441.74	2,441.74	12.08	41.64	91.00	-7,866.58	5,389.52	9,534.07	9,480.36	53.71	177.495	
2,600.00	2,502.13	2,476.13	2,476.13	12.47	42.24	91.12	-7,866.58	5,389.52	9,534.57	9,479.86	54.71	174.278	
2,700.00	2,585.83	2,559.83	2,559.83	13.45	43.70	91.39	-7,866.58	5,389.52	9,536.00	9,478.85	57.15	166.868	
2,800.00	2,669.53	2,643.53	2,643.53	14.44	45.16	91.67	-7,866.58	5,389.52	9,537.75	9,478.14	59.60	160.019	
2,900.00	2,753.22	2,727.22	2,727.22	15.46	46.62	91.94	-7,866.58	5,389.52	9,539.81	9,477.73	62.08	153.681	
3,000.00	2,836.92	2,810.92	2,810.92	16.48	48.08	92.22	-7,866.58	5,389.52	9,542.18	9,477.62	64.56	147.805	
3,100.00	2,920.62	2,905.38	2,894.62	17.52	49.73	92.49	-7,866.58	5,389.52	9,544.87	9,477.63	67.24	141.952	
3,200.00	3,004.32	2,978.32	2,978.32	18.56	51.00	92.77	-7,866.58	5,389.52	9,547.87	9,478.31	69.55	137.274	
3,300.00	3,088.01	3,062.01	3,062.01	19.61	52.46	93.04	-7,866.58	5,389.52	9,551.18	9,479.12	72.06	132.544	
3,400.00	3,171.71	3,145.71	3,145.71	20.67	53.93	93.32	-7,866.58	5,389.52	9,554.80	9,480.23	74.57	128.127	
3,500.00	3,255.41	3,229.41	3,229.41	21.73	55.39	93.59	-7,866.58	5,389.52	9,558.74	9,481.65	77.09	123.995	
3,600.00	3,339.10	3,313.10	3,313.10	22.80	56.85	93.87	-7,866.58	5,389.52	9,562.99	9,483.38	79.61	120.124	
3,700.00	3,422.80	3,403.20	3,396.80	23.87	58.42	94.14	-7,866.58	5,389.52	9,567.55	9,485.30	82.24	116.332	
3,800.00	3,506.50	3,480.50	3,480.50	24.94	59.77	94.41	-7,866.58	5,389.52	9,572.42	9,487.76	84.66	113.073	
3,900.00	3,590.20	3,564.20	3,564.20	26.02	61.23	94.69	-7,866.58	5,389.52	9,577.60	9,490.41	87.18	109.857	
4,000.00	3,673.89	3,647.89	3,647.89	27.10	62.69	94.96	-7,866.58	5,389.52	9,583.09	9,493.38	89.71	106.823	
4,100.00	3,757.59	3,731.59	3,731.59	28.18	64.15	95.23	-7,866.58	5,389.52	9,588.88	9,496.65	92.24	103.958	
4,200.00	3,841.29	3,815.29	3,815.29	29.26	65.61	95.51	-7,866.58	5,389.52	9,594.99	9,500.23	94.77	101.249	
4,300.00	3,924.99	3,901.01	3,898.99	30.35	67.11	95.78	-7,866.58	5,389.52	9,601.41	9,504.08	97.33	98.648	
4,400.00	4,008.68	3,982.68	3,982.68	31.44	68.53	96.05	-7,866.58	5,389.52	9,608.13	9,508.31	99.82	96.252	
4,500.00	4,092.38	4,066.38	4,066.38	32.52	69.99	96.32	-7,866.58	5,389.52	9,615.16	9,512.81	102.35	93.944	
4,600.00	4,176.08	4,150.08	4,150.08	33.62	71.46	96.60	-7,866.58	5,389.52	9,622.50	9,517.62	104.88	91.750	
4,700.00	4,259.77	4,233.77	4,233.77	34.71	72.92	96.87	-7,866.58	5,389.52	9,630.14	9,522.73	107.40	89.663	
4,800.00	4,343.47	4,317.47	4,317.47	35.80	74.38	97.14	-7,866.58	5,389.52	9,638.08	9,528.15	109.93	87.676	
4,900.00	4,427.17	4,401.17	4,401.17	36.89	75.84	97.41	-7,866.58	5,389.52	9,646.33	9,533.88	112.45	85.781	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,510.87	4,484.87	4,484.87	37.99	77.30	97.68	-7,866.58	5,389.52	9,654.88	9,539.91	114.97	83.974	
5,100.00	4,594.56	4,568.56	4,568.56	39.08	78.76	97.95	-7,866.58	5,389.52	9,663.74	9,546.24	117.50	82.248	
5,200.00	4,678.26	4,652.26	4,652.26	40.18	80.22	98.22	-7,866.58	5,389.52	9,672.90	9,552.88	120.02	80.597	
5,300.00	4,761.96	4,735.96	4,735.96	41.28	81.68	98.49	-7,866.58	5,389.52	9,682.35	9,559.82	122.53	79.019	
5,400.00	4,845.66	4,819.66	4,819.66	42.37	83.14	98.76	-7,866.58	5,389.52	9,692.11	9,567.06	125.05	77.507	
5,500.00	4,929.35	4,903.35	4,903.35	43.47	84.60	99.03	-7,866.58	5,389.52	9,702.17	9,574.61	127.56	76.059	
5,600.00	5,013.05	4,987.05	4,987.05	44.57	86.06	99.30	-7,866.58	5,389.52	9,712.52	9,582.45	130.07	74.670	
5,700.00	5,096.75	5,070.75	5,070.75	45.67	87.52	99.56	-7,866.58	5,389.52	9,723.17	9,590.59	132.58	73.338	
5,800.00	5,180.45	5,154.45	5,154.45	46.77	88.98	99.83	-7,866.58	5,389.52	9,734.12	9,599.03	135.09	72.058	
5,900.00	5,264.14	5,238.14	5,238.14	47.87	90.45	100.10	-7,866.58	5,389.52	9,745.36	9,607.77	137.59	70.828	
6,000.00	5,347.84	5,321.84	5,321.84	48.97	91.91	100.36	-7,866.58	5,389.52	9,756.90	9,616.80	140.09	69.646	
6,100.00	5,431.54	5,405.54	5,405.54	50.07	93.37	100.63	-7,866.58	5,389.52	9,768.72	9,626.13	142.59	68.509	
6,200.00	5,515.23	5,489.23	5,489.23	51.17	94.83	100.90	-7,866.58	5,389.52	9,780.85	9,635.76	145.09	67.414	
6,300.00	5,598.93	5,572.93	5,572.93	52.27	96.29	101.16	-7,866.58	5,389.52	9,793.26	9,645.68	147.58	66.359	
6,400.00	5,682.63	5,656.63	5,656.63	53.38	97.75	101.43	-7,866.58	5,389.52	9,805.96	9,655.89	150.07	65.342	
6,500.00	5,766.33	5,740.33	5,740.33	54.48	99.21	101.69	-7,866.58	5,389.52	9,818.95	9,666.39	152.56	64.362	
6,600.00	5,850.02	5,824.02	5,824.02	55.58	100.67	101.95	-7,866.58	5,389.52	9,832.23	9,677.18	155.04	63.417	
6,700.00	5,933.72	5,907.72	5,907.72	56.68	102.13	102.22	-7,866.58	5,389.52	9,845.79	9,688.27	157.52	62.504	
6,800.00	6,017.42	6,008.58	5,991.42	57.79	103.89	102.48	-7,866.58	5,389.52	9,859.64	9,699.34	160.30	61.508	
6,900.00	6,101.12	6,075.12	6,075.12	58.89	105.05	102.74	-7,866.58	5,389.52	9,873.77	9,711.30	162.47	60.771	
7,000.00	6,184.81	6,158.81	6,158.81	59.99	106.51	103.00	-7,866.58	5,389.52	9,888.18	9,723.24	164.95	59.948	
7,100.00	6,268.51	6,242.51	6,242.51	61.10	107.97	103.27	-7,866.58	5,389.52	9,902.88	9,735.47	167.41	59.152	
7,200.00	6,352.21	6,326.21	6,326.21	62.20	109.44	103.53	-7,866.58	5,389.52	9,917.86	9,747.98	169.88	58.382	
7,300.00	6,435.90	6,409.90	6,409.90	63.31	110.90	103.79	-7,866.58	5,389.52	9,933.11	9,760.78	172.34	57.637	
7,400.00	6,519.60	6,506.40	6,493.60	64.41	112.58	104.05	-7,866.58	5,389.52	9,948.65	9,773.63	175.02	56.843	
7,500.00	6,603.30	6,577.30	6,577.30	65.51	113.82	104.30	-7,866.58	5,389.52	9,964.46	9,787.21	177.25	56.217	
7,600.00	6,687.00	6,661.00	6,661.00	66.62	115.28	104.56	-7,866.58	5,389.52	9,980.54	9,800.84	179.70	55.540	
7,700.00	6,770.69	6,744.69	6,744.69	67.72	116.74	104.82	-7,866.58	5,389.52	9,996.90	9,814.75	182.15	54.884	
8,300.00	7,281.99	7,255.99	7,255.99	73.31	125.66	45.46	-7,866.58	5,389.52	9,987.22	9,790.78	196.44	50.841	
8,350.00	7,322.67	7,303.33	7,296.67	73.52	126.49	39.14	-7,866.58	5,389.52	9,963.85	9,766.29	197.56	50.435	
8,400.00	7,361.77	7,335.77	7,335.77	73.68	127.06	33.59	-7,866.58	5,389.52	9,936.86	9,738.48	198.38	50.090	
8,450.00	7,399.01	7,373.01	7,373.01	73.78	127.71	28.66	-7,866.58	5,389.52	9,906.43	9,707.18	199.25	49.719	
8,500.00	7,434.08	7,408.08	7,408.08	73.85	128.32	24.15	-7,866.58	5,389.52	9,872.80	9,672.75	200.04	49.354	
8,550.00	7,466.74	7,440.74	7,440.74	73.87	128.89	19.88	-7,866.58	5,389.52	9,836.20	9,635.45	200.76	48.996	
8,600.00	7,496.72	7,470.72	7,470.72	73.85	129.41	15.59	-7,866.58	5,389.52	9,796.93	9,595.54	201.39	48.648	
8,650.00	7,523.80	7,502.20	7,497.80	73.79	129.96	11.02	-7,866.58	5,389.52	9,755.26	9,553.25	202.01	48.291	
8,700.00	7,547.77	7,521.77	7,521.77	73.70	130.30	5.75	-7,866.58	5,389.52	9,711.51	9,509.12	202.39	47.984	
8,750.00	7,568.45	7,542.45	7,542.45	73.58	130.66	-0.84	-7,866.58	5,389.52	9,666.01	9,463.25	202.76	47.672	
8,800.00	7,585.69	7,559.69	7,559.69	73.43	130.96	-9.79	-7,866.58	5,389.52	9,619.12	9,416.08	203.04	47.375	
8,850.00	7,599.35	7,573.35	7,573.35	73.26	131.20	-22.79	-7,866.58	5,389.52	9,571.18	9,367.94	203.23	47.095	
8,900.00	7,609.33	7,583.33	7,583.33	73.07	131.38	-41.68	-7,866.58	5,389.52	9,522.56	9,319.22	203.34	46.831	
8,950.00	7,615.55	7,589.55	7,589.55	72.87	131.49	-65.43	-7,866.58	5,389.52	9,473.64	9,270.29	203.35	46.587	
9,000.00	7,617.97	7,608.03	7,591.97	72.65	131.81	-87.53	-7,866.58	5,389.52	9,424.80	9,221.23	203.57	46.298	
9,006.60	7,618.00	7,608.00	7,592.00	72.62	131.81	-90.00	-7,866.58	5,389.52	9,418.37	9,214.82	203.55	46.270	
9,100.00	7,618.00	7,608.00	7,592.00	72.22	131.81	-90.00	-7,866.58	5,389.52	9,327.58	9,124.26	203.33	45.875	
9,200.00	7,618.00	7,608.00	7,592.00	71.80	131.81	-90.00	-7,866.58	5,389.52	9,230.44	9,027.35	203.08	45.451	
9,300.00	7,618.00	7,608.00	7,592.00	71.41	131.81	-90.00	-7,866.58	5,389.52	9,133.35	8,930.51	202.84	45.028	
9,400.00	7,618.00	7,608.00	7,592.00	71.04	131.81	-90.00	-7,866.58	5,389.52	9,036.33	8,833.74	202.59	44.605	
9,500.00	7,618.00	7,608.00	7,592.00	70.68	131.81	-90.00	-7,866.58	5,389.52	8,939.37	8,737.04	202.33	44.182	
9,600.00	7,618.00	7,608.00	7,592.00	70.35	131.81	-90.00	-7,866.58	5,389.52	8,842.48	8,640.41	202.08	43.758	
9,700.00	7,618.00	7,608.00	7,592.00	70.04	131.81	-90.00	-7,866.58	5,389.52	8,745.66	8,543.85	201.81	43.335	
9,800.00	7,618.00	7,608.00	7,592.00	69.75	131.81	-90.00	-7,866.58	5,389.52	8,648.92	8,447.37	201.55	42.912	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,900.00	7,618.00	7,608.00	7,592.00	69.47	131.81	-90.00	-7,866.58	5,389.52	8,552.25	8,350.97	201.28	42.489	
10,000.00	7,618.00	7,608.00	7,592.00	69.22	131.81	-90.00	-7,866.58	5,389.52	8,455.65	8,254.64	201.01	42.066	
10,100.00	7,618.00	7,608.00	7,592.00	68.99	131.81	-90.00	-7,866.58	5,389.52	8,359.14	8,158.41	200.73	41.643	
10,200.00	7,618.00	7,608.00	7,592.00	68.78	131.81	-90.00	-7,866.58	5,389.52	8,262.71	8,062.25	200.45	41.220	
10,300.00	7,618.00	7,608.00	7,592.00	68.59	131.81	-90.00	-7,866.58	5,389.52	8,166.36	7,966.19	200.17	40.797	
10,400.00	7,618.00	7,608.00	7,592.00	68.42	131.81	-90.00	-7,866.58	5,389.52	8,070.11	7,870.22	199.88	40.374	
10,500.00	7,618.00	7,608.00	7,592.00	68.28	131.81	-90.00	-7,866.58	5,389.52	7,973.94	7,774.35	199.59	39.952	
10,600.00	7,618.00	7,608.00	7,592.00	68.16	131.81	-90.00	-7,866.58	5,389.52	7,877.87	7,678.58	199.29	39.529	
10,700.00	7,618.00	7,608.00	7,592.00	68.06	131.81	-90.00	-7,866.58	5,389.52	7,781.90	7,582.91	199.00	39.106	
10,800.00	7,618.00	7,608.00	7,592.00	67.99	131.81	-90.00	-7,866.58	5,389.52	7,686.04	7,487.34	198.69	38.683	
10,900.00	7,618.00	7,608.00	7,592.00	67.95	131.81	-90.00	-7,866.58	5,389.52	7,590.28	7,391.89	198.39	38.260	
11,000.00	7,618.00	7,608.00	7,592.00	67.95	131.81	-90.00	-7,866.58	5,389.52	7,494.63	7,296.55	198.08	37.837	
11,100.00	7,618.00	7,608.00	7,592.00	67.97	131.81	-90.00	-7,866.58	5,389.52	7,399.09	7,201.33	197.76	37.414	
11,200.00	7,618.00	7,608.00	7,592.00	68.04	131.81	-90.00	-7,866.58	5,389.52	7,303.68	7,106.23	197.45	36.991	
11,300.00	7,618.00	7,608.00	7,592.00	68.15	131.81	-90.00	-7,866.58	5,389.52	7,208.39	7,011.26	197.13	36.567	
11,400.00	7,618.00	7,608.00	7,592.00	68.30	131.81	-90.00	-7,866.58	5,389.52	7,113.22	6,916.42	196.80	36.144	
11,500.00	7,618.00	7,608.00	7,592.00	68.50	131.81	-90.00	-7,866.58	5,389.52	7,018.20	6,821.72	196.48	35.720	
11,600.00	7,618.00	7,608.00	7,592.00	68.75	131.81	-90.00	-7,866.58	5,389.52	6,923.31	6,727.16	196.15	35.297	
11,700.00	7,618.00	7,608.00	7,592.00	69.06	131.81	-90.00	-7,866.58	5,389.52	6,828.57	6,632.76	195.81	34.873	
11,800.00	7,618.00	7,608.00	7,592.00	69.44	131.81	-90.00	-7,866.58	5,389.52	6,733.98	6,538.50	195.48	34.448	
11,900.00	7,618.00	7,608.00	7,592.00	69.88	131.81	-90.00	-7,866.58	5,389.52	6,639.55	6,444.41	195.15	34.024	
12,000.00	7,618.00	7,608.00	7,592.00	70.39	131.81	-90.00	-7,866.58	5,389.52	6,545.29	6,350.48	194.81	33.599	
12,100.00	7,618.00	7,608.00	7,592.00	70.97	131.81	-90.00	-7,866.58	5,389.52	6,451.20	6,256.73	194.47	33.173	
12,200.00	7,618.00	7,608.00	7,592.00	71.63	131.81	-90.00	-7,866.58	5,389.52	6,357.28	6,163.15	194.13	32.747	
12,300.00	7,618.00	7,608.00	7,592.00	72.35	131.81	-90.00	-7,866.58	5,389.52	6,263.56	6,069.77	193.79	32.321	
12,400.00	7,618.00	7,608.00	7,592.00	73.15	131.81	-90.00	-7,866.58	5,389.52	6,170.03	5,976.58	193.46	31.894	
12,500.00	7,618.00	7,608.00	7,592.00	74.01	131.81	-90.00	-7,866.58	5,389.52	6,076.72	5,883.59	193.12	31.466	
12,600.00	7,618.00	7,608.00	7,592.00	74.93	131.81	-90.00	-7,866.58	5,389.52	5,983.61	5,790.82	192.79	31.037	
12,700.00	7,618.00	7,608.00	7,592.00	75.91	131.81	-90.00	-7,866.58	5,389.52	5,890.73	5,698.27	192.46	30.608	
12,800.00	7,618.00	7,608.00	7,592.00	76.95	131.81	-90.00	-7,866.58	5,389.52	5,798.09	5,605.96	192.14	30.177	
12,900.00	7,618.00	7,608.00	7,592.00	78.04	131.81	-90.00	-7,866.58	5,389.52	5,705.70	5,513.88	191.82	29.745	
13,000.00	7,618.00	7,608.00	7,592.00	79.16	131.81	-90.00	-7,866.58	5,389.52	5,613.57	5,422.06	191.51	29.313	
13,100.00	7,618.00	7,608.00	7,592.00	80.33	131.81	-90.00	-7,866.58	5,389.52	5,521.71	5,330.50	191.21	28.878	
13,200.00	7,618.00	7,608.00	7,592.00	81.54	131.81	-90.00	-7,866.58	5,389.52	5,430.14	5,239.22	190.92	28.442	
13,300.00	7,618.00	7,608.00	7,592.00	82.78	131.81	-90.00	-7,866.58	5,389.52	5,338.87	5,148.23	190.64	28.005	
13,400.00	7,618.00	7,608.00	7,592.00	84.05	131.81	-90.00	-7,866.58	5,389.52	5,247.92	5,057.54	190.38	27.565	
13,500.00	7,618.00	7,608.00	7,592.00	85.35	131.81	-90.00	-7,866.58	5,389.52	5,157.31	4,967.17	190.14	27.124	
13,600.00	7,618.00	7,608.00	7,592.00	86.67	131.81	-90.00	-7,866.58	5,389.52	5,067.05	4,877.13	189.92	26.680	
13,700.00	7,618.00	7,608.00	7,592.00	88.02	131.81	-90.00	-7,866.58	5,389.52	4,977.16	4,787.44	189.72	26.234	
13,800.00	7,618.00	7,608.00	7,592.00	89.38	131.81	-90.00	-7,866.58	5,389.52	4,887.66	4,698.11	189.56	25.785	
13,900.00	7,618.00	7,608.00	7,592.00	90.77	131.81	-90.00	-7,866.58	5,389.52	4,798.58	4,609.16	189.42	25.333	
14,000.00	7,618.00	7,608.00	7,592.00	92.17	131.81	-90.00	-7,866.58	5,389.52	4,709.94	4,520.62	189.32	24.878	
14,100.00	7,618.00	7,608.00	7,592.00	93.59	131.81	-90.00	-7,866.58	5,389.52	4,621.76	4,432.49	189.26	24.420	
14,200.00	7,618.00	7,608.00	7,592.00	95.02	131.81	-90.00	-7,866.58	5,389.52	4,534.07	4,344.81	189.26	23.957	
14,300.00	7,618.00	7,608.00	7,592.00	96.47	131.81	-90.00	-7,866.58	5,389.52	4,446.90	4,257.60	189.30	23.492	
14,400.00	7,618.00	7,608.00	7,592.00	97.93	131.81	-90.00	-7,866.58	5,389.52	4,360.28	4,170.88	189.40	23.022	
14,500.00	7,618.00	7,608.00	7,592.00	99.41	131.81	-90.00	-7,866.58	5,389.52	4,274.25	4,084.68	189.57	22.547	
14,600.00	7,618.00	7,608.00	7,592.00	100.89	131.81	-90.00	-7,866.58	5,389.52	4,188.83	3,999.03	189.81	22.069	
14,700.00	7,618.00	7,608.00	7,592.00	102.38	131.81	-90.00	-7,866.58	5,389.52	4,104.08	3,913.95	190.13	21.586	
14,800.00	7,618.00	7,608.00	7,592.00	103.89	131.81	-90.00	-7,866.58	5,389.52	4,020.03	3,829.49	190.54	21.098	
14,900.00	7,618.00	7,608.00	7,592.00	105.40	131.81	-90.00	-7,866.58	5,389.52	3,936.72	3,745.67	191.04	20.607	
15,000.00	7,618.00	7,608.00	7,592.00	106.92	131.81	-90.00	-7,866.58	5,389.52	3,854.20	3,662.55	191.65	20.110	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,100.00	7,618.00	7,608.00	7,592.00	108.45	131.81	-90.00	-7,866.58	5,389.52	3,772.53	3,580.15	192.38	19.610	
15,200.00	7,618.00	7,608.00	7,592.00	109.99	131.81	-90.00	-7,866.58	5,389.52	3,691.77	3,498.54	193.23	19.106	
15,300.00	7,618.00	7,608.00	7,592.00	111.54	131.81	-90.00	-7,866.58	5,389.52	3,611.96	3,417.75	194.21	18.598	
15,400.00	7,618.00	7,608.00	7,592.00	113.09	131.81	-90.00	-7,866.58	5,389.52	3,533.19	3,337.85	195.34	18.087	
15,500.00	7,618.00	7,608.00	7,592.00	114.65	131.81	-90.00	-7,866.58	5,389.52	3,455.51	3,258.90	196.62	17.575	
15,600.00	7,618.00	7,608.00	7,592.00	116.21	131.81	-90.00	-7,866.58	5,389.52	3,379.01	3,180.96	198.05	17.061	
15,700.00	7,618.00	7,608.00	7,592.00	117.78	131.81	-90.00	-7,866.58	5,389.52	3,303.76	3,104.10	199.66	16.547	
15,800.00	7,618.00	7,608.00	7,592.00	119.36	131.81	-90.00	-7,866.58	5,389.52	3,229.86	3,028.42	201.44	16.034	
15,900.00	7,618.00	7,608.00	7,592.00	120.94	131.81	-90.00	-7,866.58	5,389.52	3,157.39	2,953.99	203.40	15.523	
16,000.00	7,618.00	7,608.00	7,592.00	122.53	131.81	-90.00	-7,866.58	5,389.52	3,086.46	2,880.91	205.55	15.016	
16,100.00	7,618.00	7,608.00	7,592.00	124.12	131.81	-90.00	-7,866.58	5,389.52	3,017.18	2,809.29	207.89	14.513	
16,200.00	7,618.00	7,608.00	7,592.00	125.72	131.81	-90.00	-7,866.58	5,389.52	2,949.66	2,739.24	210.43	14.018	
16,300.00	7,618.00	7,608.00	7,592.00	127.32	131.81	-90.00	-7,866.58	5,389.52	2,884.03	2,670.87	213.16	13.530	
16,400.00	7,618.00	7,608.00	7,592.00	128.93	131.81	-90.00	-7,866.58	5,389.52	2,820.42	2,604.33	216.09	13.052	
16,500.00	7,618.00	7,608.00	7,592.00	130.54	131.81	-90.00	-7,866.58	5,389.52	2,758.97	2,539.75	219.22	12.586	
16,600.00	7,618.00	7,608.00	7,592.00	132.15	131.81	-90.00	-7,866.58	5,389.52	2,699.83	2,477.29	222.53	12.132	
16,700.00	7,618.00	7,608.00	7,592.00	133.77	131.81	-90.00	-7,866.58	5,389.52	2,643.14	2,417.11	226.03	11.694	
16,800.00	7,618.00	7,608.00	7,592.00	135.39	131.81	-90.00	-7,866.58	5,389.52	2,589.08	2,359.38	229.70	11.271	
16,900.00	7,618.00	7,608.00	7,592.00	137.01	131.81	-90.00	-7,866.58	5,389.52	2,537.81	2,304.27	233.53	10.867	
17,000.00	7,618.00	7,608.00	7,592.00	138.64	131.81	-90.00	-7,866.58	5,389.52	2,489.50	2,251.99	237.51	10.482	
17,100.00	7,618.00	7,608.00	7,592.00	140.27	131.81	-90.00	-7,866.58	5,389.52	2,444.33	2,202.72	241.61	10.117	
17,200.00	7,618.00	7,608.00	7,592.00	141.91	131.81	-90.00	-7,866.58	5,389.52	2,402.47	2,156.67	245.80	9.774	
17,300.00	7,618.00	7,608.00	7,592.00	143.55	131.81	-90.00	-7,866.58	5,389.52	2,364.11	2,114.04	250.07	9.454	
17,400.00	7,618.00	7,608.00	7,592.00	145.19	131.81	-90.00	-7,866.58	5,389.52	2,329.41	2,075.02	254.39	9.157	
17,500.00	7,618.00	7,608.00	7,592.00	146.83	131.81	-90.00	-7,866.58	5,389.52	2,298.54	2,039.83	258.71	8.885	
17,600.00	7,618.00	7,608.00	7,592.00	148.48	131.81	-90.00	-7,866.58	5,389.52	2,271.66	2,008.66	263.00	8.638	
17,700.00	7,618.00	7,608.00	7,592.00	150.13	131.81	-90.00	-7,866.58	5,389.52	2,248.90	1,981.68	267.23	8.416	
17,800.00	7,618.00	7,608.00	7,592.00	151.78	131.81	-90.00	-7,866.58	5,389.52	2,230.40	1,959.05	271.35	8.220	
17,900.00	7,618.00	7,608.00	7,592.00	153.43	131.81	-90.00	-7,866.58	5,389.52	2,216.26	1,940.93	275.33	8.049	
18,000.00	7,618.00	7,608.00	7,592.00	155.09	131.81	-90.00	-7,866.58	5,389.52	2,206.57	1,927.44	279.13	7.905	
18,100.00	7,618.00	7,608.00	7,592.00	156.75	131.81	-90.00	-7,866.58	5,389.52	2,201.39	1,918.66	282.73	7.786	
18,164.32	7,618.00	7,608.00	7,592.00	157.82	131.81	-90.00	-7,866.58	5,389.52	2,200.45	1,915.53	284.91	7.723	CC
18,200.00	7,618.00	7,608.00	7,592.00	158.41	131.81	-90.00	-7,866.58	5,389.52	2,200.74	1,914.66	286.08	7.693	ES
18,300.00	7,618.00	7,608.00	7,592.00	160.07	131.81	-90.00	-7,866.58	5,389.52	2,204.63	1,915.46	289.16	7.624	
18,400.00	7,618.00	7,608.00	7,592.00	161.74	131.81	-90.00	-7,866.58	5,389.52	2,213.03	1,921.07	291.96	7.580	
18,500.00	7,618.00	7,608.00	7,592.00	163.41	131.81	-90.00	-7,866.58	5,389.52	2,225.90	1,931.44	294.46	7.559	SF
18,600.00	7,618.00	7,608.00	7,592.00	165.08	131.81	-90.00	-7,866.58	5,389.52	2,243.16	1,946.50	296.66	7.561	
18,700.00	7,618.00	7,608.00	7,592.00	166.75	131.81	-90.00	-7,866.58	5,389.52	2,264.71	1,966.16	298.55	7.586	
18,711.30	7,618.00	7,608.00	7,592.00	166.94	131.81	-90.00	-7,866.58	5,389.52	2,267.41	1,968.67	298.74	7.590	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	148.78	-5,431.68	3,292.71	6,351.82				
100.00	100.00	77.00	77.00	0.13	0.58	148.78	-5,431.68	3,292.71	6,351.78	6,351.06	0.72	8,833.874	
200.00	200.00	177.00	177.00	0.49	2.10	148.78	-5,431.68	3,292.71	6,351.78	6,349.19	2.60	2,446.738	
300.00	300.00	277.00	277.00	0.85	3.85	148.78	-5,431.68	3,292.71	6,351.78	6,347.08	4.70	1,351.494	
400.00	400.00	377.00	377.00	1.21	5.59	148.78	-5,431.68	3,292.71	6,351.78	6,344.98	6.80	933.588	
500.00	500.00	477.00	477.00	1.57	7.34	148.78	-5,431.68	3,292.71	6,351.78	6,342.88	8.91	713.089	
600.00	600.00	577.00	577.00	1.93	9.08	148.78	-5,431.68	3,292.71	6,351.78	6,340.77	11.01	576.846	
700.00	700.00	677.00	677.00	2.29	10.83	148.78	-5,431.68	3,292.71	6,351.78	6,338.67	13.12	484.313	
800.00	800.00	777.00	777.00	2.64	12.58	148.78	-5,431.68	3,292.71	6,351.78	6,336.56	15.22	417.364	
900.00	900.00	877.00	877.00	3.00	14.32	148.78	-5,431.68	3,292.71	6,351.78	6,334.46	17.32	366.675	
1,000.00	999.98	976.98	976.98	3.36	16.07	91.60	-5,431.68	3,292.71	6,351.83	6,332.41	19.42	327.038	
1,100.00	1,099.84	1,076.84	1,076.84	3.71	17.81	91.64	-5,431.68	3,292.71	6,351.98	6,330.46	21.52	295.188	
1,200.00	1,199.45	1,176.45	1,176.45	4.07	19.55	91.72	-5,431.68	3,292.71	6,352.24	6,328.62	23.62	268.982	
1,300.00	1,298.70	1,275.70	1,275.70	4.44	21.28	91.82	-5,431.68	3,292.71	6,352.62	6,326.90	25.72	247.025	
1,400.00	1,397.47	1,374.47	1,374.47	4.82	23.00	91.95	-5,431.68	3,292.71	6,353.14	6,325.31	27.82	228.340	
1,500.00	1,495.62	1,472.62	1,472.62	5.22	24.72	92.10	-5,431.68	3,292.71	6,353.82	6,323.88	29.94	212.225	
1,600.00	1,593.06	1,570.06	1,570.06	5.65	26.42	92.28	-5,431.68	3,292.71	6,354.71	6,322.64	32.07	198.163	
1,700.00	1,689.64	1,666.64	1,666.64	6.11	28.10	92.49	-5,431.68	3,292.71	6,355.82	6,321.61	34.21	185.769	
1,800.00	1,785.27	1,762.27	1,762.27	6.61	29.77	92.71	-5,431.68	3,292.71	6,357.21	6,320.83	36.38	174.746	
1,900.00	1,879.82	1,856.82	1,856.82	7.15	31.42	92.95	-5,431.68	3,292.71	6,358.91	6,320.34	38.57	164.870	
2,000.00	1,973.17	1,950.17	1,950.17	7.73	33.05	93.21	-5,431.68	3,292.71	6,360.97	6,320.19	40.79	155.962	
2,100.00	2,065.21	2,042.21	2,042.21	8.37	34.66	93.49	-5,431.68	3,292.71	6,363.45	6,320.42	43.03	147.883	
2,200.00	2,155.84	2,132.84	2,132.84	9.07	36.24	93.77	-5,431.68	3,292.71	6,366.40	6,321.10	45.31	140.519	
2,300.00	2,244.94	2,221.94	2,221.94	9.82	37.79	94.06	-5,431.68	3,292.71	6,369.88	6,322.27	47.61	133.780	
2,400.00	2,332.39	2,309.39	2,309.39	10.64	39.32	94.36	-5,431.68	3,292.71	6,373.96	6,324.00	49.96	127.592	
2,500.00	2,418.11	2,404.89	2,395.11	11.53	40.99	94.67	-5,431.68	3,292.71	6,378.68	6,326.18	52.50	121.498	
2,558.91	2,467.74	2,444.74	2,444.74	12.08	41.68	94.84	-5,431.68	3,292.71	6,381.80	6,328.06	53.74	118.748	
2,600.00	2,502.13	2,479.13	2,479.13	12.47	42.28	95.01	-5,431.68	3,292.71	6,384.11	6,329.37	54.73	116.639	
2,700.00	2,585.83	2,562.83	2,562.83	13.45	43.74	95.42	-5,431.68	3,292.71	6,390.04	6,332.88	57.16	111.786	
2,800.00	2,669.53	2,646.53	2,646.53	14.44	45.20	95.83	-5,431.68	3,292.71	6,396.44	6,336.83	59.61	107.306	
2,900.00	2,753.22	2,730.22	2,730.22	15.46	46.67	96.24	-5,431.68	3,292.71	6,403.29	6,341.23	62.07	103.165	
3,000.00	2,836.92	2,813.92	2,813.92	16.48	48.13	96.65	-5,431.68	3,292.71	6,410.61	6,346.07	64.54	99.331	
3,100.00	2,920.62	2,902.38	2,897.62	17.52	49.67	97.06	-5,431.68	3,292.71	6,418.39	6,351.29	67.10	95.657	
3,200.00	3,004.32	2,981.32	2,981.32	18.56	51.05	97.46	-5,431.68	3,292.71	6,426.62	6,357.12	69.50	92.473	
3,300.00	3,088.01	3,065.01	3,065.01	19.61	52.51	97.87	-5,431.68	3,292.71	6,435.31	6,363.33	71.98	89.400	
3,400.00	3,171.71	3,148.71	3,148.71	20.67	53.97	98.27	-5,431.68	3,292.71	6,444.45	6,369.98	74.47	86.534	
3,500.00	3,255.41	3,232.41	3,232.41	21.73	55.43	98.68	-5,431.68	3,292.71	6,454.04	6,377.08	76.96	83.857	
3,600.00	3,339.10	3,316.10	3,316.10	22.80	56.89	99.08	-5,431.68	3,292.71	6,464.08	6,384.63	79.46	81.354	
3,700.00	3,422.80	3,400.20	3,399.80	23.87	58.36	99.48	-5,431.68	3,292.71	6,474.57	6,392.61	81.96	79.001	
3,800.00	3,506.50	3,483.50	3,483.50	24.94	59.81	99.88	-5,431.68	3,292.71	6,485.50	6,401.06	84.44	76.805	
3,900.00	3,590.20	3,567.20	3,567.20	26.02	61.27	100.29	-5,431.68	3,292.71	6,496.88	6,409.95	86.93	74.736	
4,000.00	3,673.89	3,650.89	3,650.89	27.10	62.73	100.69	-5,431.68	3,292.71	6,508.69	6,419.27	89.42	72.787	
4,100.00	3,757.59	3,734.59	3,734.59	28.18	64.19	101.08	-5,431.68	3,292.71	6,520.95	6,429.04	91.91	70.951	
4,200.00	3,841.29	3,818.29	3,818.29	29.26	65.66	101.48	-5,431.68	3,292.71	6,533.64	6,439.24	94.39	69.218	
4,300.00	3,924.99	3,901.99	3,901.99	30.35	67.12	101.88	-5,431.68	3,292.71	6,546.76	6,449.88	96.87	67.580	
4,400.00	4,008.68	3,985.68	3,985.68	31.44	68.58	102.27	-5,431.68	3,292.71	6,560.31	6,460.96	99.35	66.030	
4,500.00	4,092.38	4,069.38	4,069.38	32.52	70.04	102.67	-5,431.68	3,292.71	6,574.29	6,472.46	101.83	64.562	
4,600.00	4,176.08	4,153.08	4,153.08	33.62	71.50	103.06	-5,431.68	3,292.71	6,588.69	6,484.39	104.30	63.170	
4,700.00	4,259.77	4,236.77	4,236.77	34.71	72.96	103.45	-5,431.68	3,292.71	6,603.52	6,496.75	106.77	61.849	
4,800.00	4,343.47	4,320.47	4,320.47	35.80	74.42	103.84	-5,431.68	3,292.71	6,618.77	6,509.53	109.23	60.594	
4,900.00	4,427.17	4,404.17	4,404.17	36.89	75.88	104.23	-5,431.68	3,292.71	6,634.43	6,522.74	111.69	59.400	
5,000.00	4,510.87	4,487.87	4,487.87	37.99	77.34	104.62	-5,431.68	3,292.71	6,650.50	6,536.36	114.15	58.263	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	4,571.56	4,571.56	39.08	78.80	105.00	-5,431.68	3,292.71	6,666.99	6,550.39	116.60	57.180	
5,200.00	4,678.26	4,655.26	4,655.26	40.18	80.26	105.39	-5,431.68	3,292.71	6,683.88	6,564.84	119.04	56.147	
5,300.00	4,761.96	4,738.96	4,738.96	41.28	81.72	105.77	-5,431.68	3,292.71	6,701.18	6,579.70	121.48	55.162	
5,400.00	4,845.66	4,822.66	4,822.66	42.37	83.19	106.16	-5,431.68	3,292.71	6,718.88	6,594.96	123.92	54.220	
5,500.00	4,929.35	4,906.35	4,906.35	43.47	84.65	106.54	-5,431.68	3,292.71	6,736.98	6,610.63	126.35	53.321	
5,600.00	5,013.05	5,009.95	4,990.05	44.57	86.45	106.91	-5,431.68	3,292.71	6,755.47	6,626.35	129.12	52.319	
5,700.00	5,096.75	5,073.75	5,073.75	45.67	87.57	107.29	-5,431.68	3,292.71	6,774.35	6,643.16	131.19	51.637	
5,800.00	5,180.45	5,157.45	5,157.45	46.77	89.03	107.67	-5,431.68	3,292.71	6,793.62	6,660.02	133.61	50.848	
5,900.00	5,264.14	5,241.14	5,241.14	47.87	90.49	108.04	-5,431.68	3,292.71	6,813.28	6,677.27	136.01	50.092	
6,000.00	5,347.84	5,324.84	5,324.84	48.97	91.95	108.42	-5,431.68	3,292.71	6,833.32	6,694.90	138.42	49.368	
6,100.00	5,431.54	5,408.54	5,408.54	50.07	93.41	108.79	-5,431.68	3,292.71	6,853.74	6,712.92	140.81	48.672	
6,200.00	5,515.23	5,507.77	5,492.23	51.17	95.14	109.16	-5,431.68	3,292.71	6,874.53	6,731.05	143.48	47.914	
6,300.00	5,598.93	5,575.93	5,575.93	52.27	96.33	109.52	-5,431.68	3,292.71	6,895.69	6,750.10	145.59	47.364	
6,400.00	5,682.63	5,659.63	5,659.63	53.38	97.79	109.89	-5,431.68	3,292.71	6,917.22	6,769.25	147.97	46.748	
6,500.00	5,766.33	5,743.33	5,743.33	54.48	99.25	110.26	-5,431.68	3,292.71	6,939.12	6,788.78	150.34	46.156	
6,600.00	5,850.02	5,827.02	5,827.02	55.58	100.71	110.62	-5,431.68	3,292.71	6,961.38	6,808.67	152.71	45.586	
6,700.00	5,933.72	5,910.72	5,910.72	56.68	102.18	110.98	-5,431.68	3,292.71	6,983.99	6,828.92	155.07	45.038	
6,800.00	6,017.42	6,005.58	5,994.42	57.79	103.83	111.34	-5,431.68	3,292.71	7,006.96	6,849.34	157.62	44.455	
6,900.00	6,101.12	6,078.12	6,078.12	58.89	105.10	111.70	-5,431.68	3,292.71	7,030.28	6,870.51	159.77	44.002	
7,000.00	6,184.81	6,161.81	6,161.81	59.99	106.56	112.05	-5,431.68	3,292.71	7,053.95	6,891.84	162.11	43.512	
7,100.00	6,268.51	6,245.51	6,245.51	61.10	108.02	112.41	-5,431.68	3,292.71	7,077.96	6,913.51	164.45	43.040	
7,200.00	6,352.21	6,329.21	6,329.21	62.20	109.48	112.76	-5,431.68	3,292.71	7,102.32	6,935.54	166.78	42.585	
7,300.00	6,435.90	6,412.90	6,412.90	63.31	110.94	113.11	-5,431.68	3,292.71	7,127.01	6,957.90	169.10	42.146	
7,400.00	6,519.60	6,503.40	6,496.60	64.41	112.52	113.46	-5,431.68	3,292.71	7,152.03	6,980.49	171.54	41.693	
7,500.00	6,603.30	6,580.30	6,580.30	65.51	113.86	113.81	-5,431.68	3,292.71	7,177.38	7,003.65	173.73	41.313	
7,600.00	6,687.00	6,664.00	6,664.00	66.62	115.32	114.15	-5,431.68	3,292.71	7,203.06	7,027.03	176.04	40.918	
7,700.00	6,770.69	6,747.69	6,747.69	67.72	116.78	114.49	-5,431.68	3,292.71	7,229.07	7,050.73	178.34	40.536	
7,800.00	6,854.39	6,831.39	6,831.39	68.83	118.24	114.84	-5,431.68	3,292.71	7,255.39	7,074.76	180.63	40.167	
7,900.00	6,938.09	6,915.09	6,915.09	69.93	119.70	115.17	-5,431.68	3,292.71	7,282.03	7,099.11	182.92	39.811	
7,933.18	6,965.86	6,942.86	6,942.86	70.30	120.19	115.29	-5,431.68	3,292.71	7,290.94	7,107.26	183.67	39.695	
7,950.00	6,980.00	6,957.00	6,957.00	70.49	120.44	113.05	-5,431.68	3,292.71	7,295.23	7,111.17	184.06	39.635	
8,000.00	7,022.68	7,000.32	6,999.68	71.01	121.19	105.70	-5,431.68	3,292.71	7,305.20	7,119.97	185.23	39.439	
8,050.00	7,066.06	7,043.06	7,043.06	71.51	121.94	97.45	-5,431.68	3,292.71	7,310.95	7,124.56	186.38	39.225	
8,100.00	7,109.82	7,086.82	7,086.82	71.97	122.70	88.63	-5,431.68	3,292.71	7,312.43	7,124.88	187.55	38.988	
8,150.00	7,153.63	7,130.63	7,130.63	72.38	123.47	79.73	-5,431.68	3,292.71	7,309.64	7,120.93	188.71	38.734	
8,200.00	7,197.14	7,174.14	7,174.14	72.74	124.23	71.23	-5,431.68	3,292.71	7,302.59	7,112.74	189.85	38.465	
8,250.00	7,240.04	7,217.04	7,217.04	73.05	124.97	63.53	-5,431.68	3,292.71	7,291.33	7,100.38	190.96	38.183	
8,300.00	7,281.99	7,258.99	7,258.99	73.31	125.71	56.81	-5,431.68	3,292.71	7,275.94	7,083.92	192.02	37.892	
8,350.00	7,322.67	7,300.33	7,299.67	73.52	126.43	51.10	-5,431.68	3,292.71	7,256.54	7,063.49	193.05	37.589	
8,400.00	7,361.77	7,338.77	7,338.77	73.68	127.10	46.32	-5,431.68	3,292.71	7,233.25	7,039.25	194.00	37.285	
8,450.00	7,399.01	7,376.01	7,376.01	73.78	127.75	42.35	-5,431.68	3,292.71	7,206.26	7,011.36	194.90	36.974	
8,500.00	7,434.08	7,411.08	7,411.08	73.85	128.36	39.06	-5,431.68	3,292.71	7,175.75	6,980.01	195.74	36.660	
8,550.00	7,466.74	7,443.74	7,443.74	73.87	128.93	36.34	-5,431.68	3,292.71	7,141.95	6,945.45	196.51	36.345	
8,600.00	7,496.72	7,473.72	7,473.72	73.85	129.45	34.08	-5,431.68	3,292.71	7,105.11	6,907.91	197.20	36.030	
8,650.00	7,523.80	7,500.80	7,500.80	73.79	129.93	32.20	-5,431.68	3,292.71	7,065.49	6,867.68	197.82	35.717	
8,700.00	7,547.77	7,524.77	7,524.77	73.70	130.35	30.61	-5,431.68	3,292.71	7,023.40	6,825.04	198.35	35.409	
8,750.00	7,568.45	7,545.45	7,545.45	73.58	130.71	29.24	-5,431.68	3,292.71	6,979.13	6,780.32	198.81	35.105	
8,800.00	7,585.69	7,562.69	7,562.69	73.43	131.01	28.00	-5,431.68	3,292.71	6,933.02	6,733.84	199.18	34.807	
8,850.00	7,599.35	7,576.35	7,576.35	73.26	131.25	26.73	-5,431.68	3,292.71	6,885.41	6,685.94	199.47	34.518	
8,900.00	7,609.33	7,586.33	7,586.33	73.07	131.42	25.03	-5,431.68	3,292.71	6,836.67	6,636.99	199.68	34.238	
8,950.00	7,615.55	7,607.45	7,592.55	72.87	131.79	21.10	-5,431.68	3,292.71	6,787.14	6,587.08	200.06	33.925	
9,000.00	7,617.97	7,605.03	7,594.97	72.65	131.75	-40.47	-5,431.68	3,292.71	6,737.22	6,537.20	200.02	33.683	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,006.60	7,618.00	7,605.00	7,595.00	72.62	131.75	-90.00	-5,431.68	3,292.71	6,730.62	6,530.60	200.02	33.650	
9,100.00	7,618.00	7,605.00	7,595.00	72.22	131.75	-90.00	-5,431.68	3,292.71	6,637.23	6,437.23	200.00	33.185	
9,200.00	7,618.00	7,605.00	7,595.00	71.80	131.75	-90.00	-5,431.68	3,292.71	6,537.24	6,337.25	199.99	32.688	
9,300.00	7,618.00	7,605.00	7,595.00	71.41	131.75	-90.00	-5,431.68	3,292.71	6,437.25	6,237.28	199.97	32.191	
9,400.00	7,618.00	7,605.00	7,595.00	71.04	131.75	-90.00	-5,431.68	3,292.71	6,337.26	6,137.31	199.96	31.693	
9,500.00	7,618.00	7,605.00	7,595.00	70.68	131.75	-90.00	-5,431.68	3,292.71	6,237.28	6,037.33	199.94	31.196	
9,600.00	7,618.00	7,605.00	7,595.00	70.35	131.75	-90.00	-5,431.68	3,292.71	6,137.29	5,937.36	199.92	30.698	
9,700.00	7,618.00	7,605.00	7,595.00	70.04	131.75	-90.00	-5,431.68	3,292.71	6,037.30	5,837.39	199.91	30.200	
9,800.00	7,618.00	7,605.00	7,595.00	69.75	131.75	-90.00	-5,431.68	3,292.71	5,937.31	5,737.42	199.89	29.703	
9,900.00	7,618.00	7,605.00	7,595.00	69.47	131.75	-90.00	-5,431.68	3,292.71	5,837.33	5,637.45	199.88	29.205	
10,000.00	7,618.00	7,605.00	7,595.00	69.22	131.75	-90.00	-5,431.68	3,292.71	5,737.34	5,537.48	199.86	28.707	
10,100.00	7,618.00	7,605.00	7,595.00	68.99	131.75	-90.00	-5,431.68	3,292.71	5,637.35	5,437.51	199.84	28.209	
10,200.00	7,618.00	7,605.00	7,595.00	68.78	131.75	-90.00	-5,431.68	3,292.71	5,537.37	5,337.54	199.83	27.711	
10,300.00	7,618.00	7,605.00	7,595.00	68.59	131.75	-90.00	-5,431.68	3,292.71	5,437.38	5,237.57	199.81	27.213	
10,400.00	7,618.00	7,605.00	7,595.00	68.42	131.75	-90.00	-5,431.68	3,292.71	5,337.40	5,137.61	199.79	26.715	
10,500.00	7,618.00	7,605.00	7,595.00	68.28	131.75	-90.00	-5,431.68	3,292.71	5,237.41	5,037.64	199.77	26.217	
10,600.00	7,618.00	7,605.00	7,595.00	68.16	131.75	-90.00	-5,431.68	3,292.71	5,137.43	4,937.68	199.76	25.719	
10,700.00	7,618.00	7,605.00	7,595.00	68.06	131.75	-90.00	-5,431.68	3,292.71	5,037.45	4,837.71	199.74	25.220	
10,800.00	7,618.00	7,605.00	7,595.00	67.99	131.75	-90.00	-5,431.68	3,292.71	4,937.47	4,737.75	199.72	24.722	
10,900.00	7,618.00	7,605.00	7,595.00	67.95	131.75	-90.00	-5,431.68	3,292.71	4,837.49	4,637.79	199.70	24.224	
11,000.00	7,618.00	7,605.00	7,595.00	67.95	131.75	-90.00	-5,431.68	3,292.71	4,737.51	4,537.83	199.68	23.725	
11,100.00	7,618.00	7,605.00	7,595.00	67.97	131.75	-90.00	-5,431.68	3,292.71	4,637.53	4,437.87	199.66	23.227	
11,200.00	7,618.00	7,605.00	7,595.00	68.04	131.75	-90.00	-5,431.68	3,292.71	4,537.55	4,337.91	199.64	22.729	
11,300.00	7,618.00	7,605.00	7,595.00	68.15	131.75	-90.00	-5,431.68	3,292.71	4,437.57	4,237.95	199.62	22.230	
11,400.00	7,618.00	7,605.00	7,595.00	68.30	131.75	-90.00	-5,431.68	3,292.71	4,337.59	4,138.00	199.60	21.732	
11,500.00	7,618.00	7,605.00	7,595.00	68.50	131.75	-90.00	-5,431.68	3,292.71	4,237.62	4,038.05	199.57	21.233	
11,600.00	7,618.00	7,605.00	7,595.00	68.75	131.75	-90.00	-5,431.68	3,292.71	4,137.65	3,938.10	199.55	20.735	
11,700.00	7,618.00	7,605.00	7,595.00	69.06	131.75	-90.00	-5,431.68	3,292.71	4,037.67	3,838.15	199.52	20.237	
11,800.00	7,618.00	7,605.00	7,595.00	69.44	131.75	-90.00	-5,431.68	3,292.71	3,937.70	3,738.20	199.50	19.738	
11,900.00	7,618.00	7,605.00	7,595.00	69.88	131.75	-90.00	-5,431.68	3,292.71	3,837.73	3,638.26	199.47	19.240	
12,000.00	7,618.00	7,605.00	7,595.00	70.39	131.75	-90.00	-5,431.68	3,292.71	3,737.76	3,538.32	199.44	18.741	
12,100.00	7,618.00	7,605.00	7,595.00	70.97	131.75	-90.00	-5,431.68	3,292.71	3,637.80	3,438.38	199.41	18.243	
12,200.00	7,618.00	7,605.00	7,595.00	71.63	131.75	-90.00	-5,431.68	3,292.71	3,537.83	3,338.45	199.38	17.744	
12,300.00	7,618.00	7,605.00	7,595.00	72.35	131.75	-90.00	-5,431.68	3,292.71	3,437.87	3,238.52	199.35	17.246	
12,400.00	7,618.00	7,605.00	7,595.00	73.15	131.75	-90.00	-5,431.68	3,292.71	3,337.91	3,138.60	199.31	16.747	
12,500.00	7,618.00	7,605.00	7,595.00	74.01	131.75	-90.00	-5,431.68	3,292.71	3,237.95	3,038.68	199.27	16.249	
12,600.00	7,618.00	7,605.00	7,595.00	74.93	131.75	-90.00	-5,431.68	3,292.71	3,138.00	2,938.76	199.23	15.750	
12,700.00	7,618.00	7,605.00	7,595.00	75.91	131.75	-90.00	-5,431.68	3,292.71	3,038.04	2,838.85	199.19	15.252	
12,800.00	7,618.00	7,605.00	7,595.00	76.95	131.75	-90.00	-5,431.68	3,292.71	2,938.09	2,738.95	199.14	14.754	
12,900.00	7,618.00	7,605.00	7,595.00	78.04	131.75	-90.00	-5,431.68	3,292.71	2,838.15	2,639.06	199.09	14.255	
13,000.00	7,618.00	7,605.00	7,595.00	79.16	131.75	-90.00	-5,431.68	3,292.71	2,738.21	2,539.17	199.04	13.757	
13,100.00	7,618.00	7,605.00	7,595.00	80.33	131.75	-90.00	-5,431.68	3,292.71	2,638.27	2,439.29	198.98	13.259	
13,200.00	7,618.00	7,605.00	7,595.00	81.54	131.75	-90.00	-5,431.68	3,292.71	2,538.34	2,339.42	198.92	12.761	
13,300.00	7,618.00	7,605.00	7,595.00	82.78	131.75	-90.00	-5,431.68	3,292.71	2,438.41	2,239.56	198.85	12.262	
13,400.00	7,618.00	7,605.00	7,595.00	84.05	131.75	-90.00	-5,431.68	3,292.71	2,338.49	2,139.71	198.78	11.764	
13,500.00	7,618.00	7,605.00	7,595.00	85.35	131.75	-90.00	-5,431.68	3,292.71	2,238.58	2,039.88	198.70	11.266	
13,600.00	7,618.00	7,605.00	7,595.00	86.67	131.75	-90.00	-5,431.68	3,292.71	2,138.67	1,940.07	198.61	10.768	
13,700.00	7,618.00	7,605.00	7,595.00	88.02	131.75	-90.00	-5,431.68	3,292.71	2,038.78	1,840.27	198.51	10.270	
13,800.00	7,618.00	7,605.00	7,595.00	89.38	131.75	-90.00	-5,431.68	3,292.71	1,938.89	1,740.49	198.40	9.773	
13,900.00	7,618.00	7,605.00	7,595.00	90.77	131.75	-90.00	-5,431.68	3,292.71	1,839.02	1,640.74	198.28	9.275	
14,000.00	7,618.00	7,605.00	7,595.00	92.17	131.75	-90.00	-5,431.68	3,292.71	1,739.16	1,541.02	198.14	8.777	
14,100.00	7,618.00	7,605.00	7,595.00	93.59	131.75	-90.00	-5,431.68	3,292.71	1,639.32	1,441.33	197.99	8.280	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,618.00	7,605.00	7,595.00	95.02	131.75	-90.00	-5,431.68	3,292.71	1,539.50	1,341.68	197.82	7.782	
14,300.00	7,618.00	7,605.00	7,595.00	96.47	131.75	-90.00	-5,431.68	3,292.71	1,439.71	1,242.09	197.62	7.285	
14,400.00	7,618.00	7,605.00	7,595.00	97.93	131.75	-90.00	-5,431.68	3,292.71	1,339.95	1,142.55	197.40	6.788	
14,500.00	7,618.00	7,605.00	7,595.00	99.41	131.75	-90.00	-5,431.68	3,292.71	1,240.22	1,043.08	197.14	6.291	
14,600.00	7,618.00	7,605.00	7,595.00	100.89	131.75	-90.00	-5,431.68	3,292.71	1,140.54	943.71	196.84	5.794	
14,700.00	7,618.00	7,605.00	7,595.00	102.38	131.75	-90.00	-5,431.68	3,292.71	1,040.93	844.45	196.48	5.298	
14,800.00	7,618.00	7,605.00	7,595.00	103.89	131.75	-90.00	-5,431.68	3,292.71	941.39	745.34	196.05	4.802	
14,900.00	7,618.00	7,605.00	7,595.00	105.40	131.75	-90.00	-5,431.68	3,292.71	841.97	646.43	195.53	4.306	
15,000.00	7,618.00	7,605.00	7,595.00	106.92	131.75	-90.00	-5,431.68	3,292.71	742.70	547.80	194.90	3.811	
15,100.00	7,618.00	7,605.00	7,595.00	108.45	131.75	-90.00	-5,431.68	3,292.71	643.65	449.55	194.10	3.316	
15,200.00	7,618.00	7,605.00	7,595.00	109.99	131.75	-90.00	-5,431.68	3,292.71	544.96	351.86	193.10	2.822	
15,300.00	7,618.00	7,605.00	7,595.00	111.54	131.75	-90.00	-5,431.68	3,292.71	446.85	255.02	191.82	2.329	
15,400.00	7,618.00	7,605.00	7,595.00	113.09	131.75	-90.00	-5,431.68	3,292.71	349.80	159.49	190.31	1.838	
15,500.00	7,618.00	7,605.00	7,595.00	114.65	131.75	-90.00	-5,431.68	3,292.71	255.06	65.82	189.24	1.348	Level 3
15,600.00	7,618.00	7,605.00	7,595.00	116.21	131.75	-90.00	-5,431.68	3,292.71	166.57	-27.20	193.77	0.860	Level 1
15,700.00	7,618.00	7,605.00	7,595.00	117.78	131.75	-90.00	-5,431.68	3,292.71	102.15	-125.01	227.16	0.450	Level 1
15,736.55	7,618.00	7,605.00	7,595.00	118.36	131.75	-90.00	-5,431.68	3,292.71	95.39	-148.69	244.09	0.391	Level 1, CC, ES, SF
15,800.00	7,618.00	7,605.00	7,595.00	119.36	131.75	-90.00	-5,431.68	3,292.71	114.57	-134.28	248.85	0.460	Level 1
15,900.00	7,618.00	7,605.00	7,595.00	120.94	131.75	-90.00	-5,431.68	3,292.71	189.26	-43.01	232.27	0.815	Level 1
16,000.00	7,618.00	7,605.00	7,595.00	122.53	131.75	-90.00	-5,431.68	3,292.71	280.19	58.09	222.10	1.262	Level 3
16,100.00	7,618.00	7,605.00	7,595.00	124.12	131.75	-90.00	-5,431.68	3,292.71	375.76	159.14	216.62	1.735	
16,200.00	7,618.00	7,605.00	7,595.00	125.72	131.75	-90.00	-5,431.68	3,292.71	473.17	259.82	213.35	2.218	
16,300.00	7,618.00	7,605.00	7,595.00	127.32	131.75	-90.00	-5,431.68	3,292.71	571.47	360.26	211.21	2.706	
16,400.00	7,618.00	7,605.00	7,595.00	128.93	131.75	-90.00	-5,431.68	3,292.71	670.28	460.56	209.72	3.196	
16,500.00	7,618.00	7,605.00	7,595.00	130.54	131.75	-90.00	-5,431.68	3,292.71	769.39	560.76	208.63	3.688	
16,600.00	7,618.00	7,605.00	7,595.00	132.15	131.75	-90.00	-5,431.68	3,292.71	868.71	660.91	207.79	4.181	
16,700.00	7,618.00	7,605.00	7,595.00	133.77	131.75	-90.00	-5,431.68	3,292.71	968.17	761.02	207.14	4.674	
16,800.00	7,618.00	7,605.00	7,595.00	135.39	131.75	-90.00	-5,431.68	3,292.71	1,067.72	861.10	206.62	5.168	
16,900.00	7,618.00	7,605.00	7,595.00	137.01	131.75	-90.00	-5,431.68	3,292.71	1,167.36	961.16	206.20	5.661	
17,000.00	7,618.00	7,605.00	7,595.00	138.64	131.75	-90.00	-5,431.68	3,292.71	1,267.05	1,061.21	205.84	6.155	
17,100.00	7,618.00	7,605.00	7,595.00	140.27	131.75	-90.00	-5,431.68	3,292.71	1,366.79	1,161.24	205.55	6.650	
17,200.00	7,618.00	7,605.00	7,595.00	141.91	131.75	-90.00	-5,431.68	3,292.71	1,466.56	1,261.27	205.30	7.144	
17,300.00	7,618.00	7,605.00	7,595.00	143.55	131.75	-90.00	-5,431.68	3,292.71	1,566.36	1,361.28	205.08	7.638	
17,400.00	7,618.00	7,605.00	7,595.00	145.19	131.75	-90.00	-5,431.68	3,292.71	1,666.19	1,461.29	204.90	8.132	
17,500.00	7,618.00	7,605.00	7,595.00	146.83	131.75	-90.00	-5,431.68	3,292.71	1,766.03	1,561.30	204.74	8.626	
17,600.00	7,618.00	7,605.00	7,595.00	148.48	131.75	-90.00	-5,431.68	3,292.71	1,865.89	1,661.30	204.60	9.120	
17,700.00	7,618.00	7,605.00	7,595.00	150.13	131.75	-90.00	-5,431.68	3,292.71	1,965.77	1,761.30	204.48	9.614	
17,800.00	7,618.00	7,605.00	7,595.00	151.78	131.75	-90.00	-5,431.68	3,292.71	2,065.66	1,861.29	204.37	10.108	
17,900.00	7,618.00	7,605.00	7,595.00	153.43	131.75	-90.00	-5,431.68	3,292.71	2,165.56	1,961.28	204.28	10.601	
18,000.00	7,618.00	7,605.00	7,595.00	155.09	131.75	-90.00	-5,431.68	3,292.71	2,265.46	2,061.27	204.19	11.095	
18,100.00	7,618.00	7,605.00	7,595.00	156.75	131.75	-90.00	-5,431.68	3,292.71	2,365.38	2,161.26	204.12	11.588	
18,200.00	7,618.00	7,605.00	7,595.00	158.41	131.75	-90.00	-5,431.68	3,292.71	2,465.30	2,261.24	204.06	12.081	
18,300.00	7,618.00	7,605.00	7,595.00	160.07	131.75	-90.00	-5,431.68	3,292.71	2,565.23	2,361.23	204.00	12.575	
18,400.00	7,618.00	7,605.00	7,595.00	161.74	131.75	-90.00	-5,431.68	3,292.71	2,665.16	2,461.21	203.95	13.068	
18,500.00	7,618.00	7,605.00	7,595.00	163.41	131.75	-90.00	-5,431.68	3,292.71	2,765.10	2,561.19	203.91	13.560	
18,600.00	7,618.00	7,605.00	7,595.00	165.08	131.75	-90.00	-5,431.68	3,292.71	2,865.04	2,661.17	203.87	14.053	
18,700.00	7,618.00	7,605.00	7,595.00	166.75	131.75	-90.00	-5,431.68	3,292.71	2,964.99	2,761.15	203.84	14.546	
18,711.30	7,618.00	7,605.00	7,595.00	166.94	131.75	-90.00	-5,431.68	3,292.71	2,976.29	2,772.45	203.84	14.601	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	134.21	-5,559.47	5,714.17	7,972.52				
100.00	100.00	60.00	60.00	0.13	0.50	134.21	-5,559.47	5,714.17	7,972.42	7,971.79	0.63	N/A	
200.00	200.00	160.00	160.00	0.49	1.88	134.21	-5,559.47	5,714.17	7,972.42	7,970.05	2.37	3,365.128	
300.00	300.00	260.00	260.00	0.85	3.62	134.21	-5,559.47	5,714.17	7,972.42	7,967.95	4.47	1,782.371	
400.00	400.00	360.00	360.00	1.21	5.37	134.21	-5,559.47	5,714.17	7,972.42	7,965.84	6.58	1,212.216	
500.00	500.00	460.00	460.00	1.57	7.11	134.21	-5,559.47	5,714.17	7,972.42	7,963.74	8.68	918.425	
600.00	600.00	560.00	560.00	1.93	8.86	134.21	-5,559.47	5,714.17	7,972.42	7,961.64	10.78	739.260	
700.00	700.00	660.00	660.00	2.29	10.60	134.21	-5,559.47	5,714.17	7,972.42	7,959.53	12.89	618.586	
800.00	800.00	760.00	760.00	2.64	12.35	134.21	-5,559.47	5,714.17	7,972.42	7,957.43	14.99	531.781	
900.00	900.00	860.00	860.00	3.00	14.09	134.21	-5,559.47	5,714.17	7,972.42	7,955.32	17.10	466.340	
1,000.00	999.98	959.98	959.98	3.36	15.84	77.04	-5,559.47	5,714.17	7,972.03	7,952.83	19.20	415.313	
1,100.00	1,099.84	1,059.84	1,059.84	3.71	17.58	77.10	-5,559.47	5,714.17	7,970.86	7,949.57	21.29	374.379	
1,200.00	1,199.45	1,159.45	1,159.45	4.07	19.32	77.20	-5,559.47	5,714.17	7,968.91	7,945.52	23.39	340.736	
1,300.00	1,298.70	1,258.70	1,258.70	4.44	21.05	77.34	-5,559.47	5,714.17	7,966.21	7,940.72	25.49	312.568	
1,400.00	1,397.47	1,357.47	1,357.47	4.82	22.78	77.51	-5,559.47	5,714.17	7,962.76	7,935.17	27.59	288.606	
1,500.00	1,495.62	1,455.62	1,455.62	5.22	24.49	77.73	-5,559.47	5,714.17	7,958.60	7,928.89	29.70	267.942	
1,600.00	1,593.06	1,553.06	1,553.06	5.65	26.19	77.98	-5,559.47	5,714.17	7,953.74	7,921.92	31.83	249.906	
1,700.00	1,689.64	1,649.64	1,649.64	6.11	27.88	78.26	-5,559.47	5,714.17	7,948.24	7,914.27	33.97	234.001	
1,800.00	1,785.27	1,745.27	1,745.27	6.61	29.54	78.58	-5,559.47	5,714.17	7,942.11	7,905.98	36.13	219.848	
1,900.00	1,879.82	1,839.82	1,839.82	7.15	31.19	78.93	-5,559.47	5,714.17	7,935.41	7,897.10	38.31	207.153	
2,000.00	1,973.17	1,933.17	1,933.17	7.73	32.82	79.31	-5,559.47	5,714.17	7,928.18	7,887.67	40.51	195.688	
2,100.00	2,065.21	2,025.21	2,025.21	8.37	34.43	79.72	-5,559.47	5,714.17	7,920.48	7,877.73	42.75	185.272	
2,200.00	2,155.84	2,115.84	2,115.84	9.07	36.01	80.15	-5,559.47	5,714.17	7,912.36	7,867.34	45.02	175.761	
2,300.00	2,244.94	2,204.94	2,204.94	9.82	37.57	80.61	-5,559.47	5,714.17	7,903.88	7,856.56	47.32	167.038	
2,400.00	2,332.39	2,307.61	2,292.39	10.64	39.36	81.09	-5,559.47	5,714.17	7,895.10	7,845.18	49.92	158.161	
2,500.00	2,418.11	2,378.11	2,378.11	11.53	40.59	81.59	-5,559.47	5,714.17	7,886.09	7,834.06	52.02	151.590	
2,558.91	2,467.74	2,427.74	2,427.74	12.08	41.46	81.89	-5,559.47	5,714.17	7,880.70	7,827.26	53.43	147.484	
2,600.00	2,502.13	2,462.13	2,462.13	12.47	42.06	82.02	-5,559.47	5,714.17	7,876.95	7,822.53	54.43	144.729	
2,700.00	2,585.83	2,545.83	2,545.83	13.45	43.52	82.35	-5,559.47	5,714.17	7,868.10	7,811.24	56.86	138.383	
2,800.00	2,669.53	2,629.53	2,629.53	14.44	44.98	82.69	-5,559.47	5,714.17	7,859.62	7,800.31	59.31	132.517	
2,900.00	2,753.22	2,713.22	2,713.22	15.46	46.44	83.02	-5,559.47	5,714.17	7,851.51	7,789.73	61.78	127.087	
3,000.00	2,836.92	2,803.08	2,796.92	16.48	48.01	83.35	-5,559.47	5,714.17	7,843.78	7,779.41	64.37	121.850	
3,100.00	2,920.62	2,880.62	2,880.62	17.52	49.36	83.69	-5,559.47	5,714.17	7,836.42	7,769.66	66.76	117.380	
3,200.00	3,004.32	2,964.32	2,964.32	18.56	50.82	84.02	-5,559.47	5,714.17	7,829.43	7,760.17	69.27	113.032	
3,300.00	3,088.01	3,048.01	3,048.01	19.61	52.28	84.35	-5,559.47	5,714.17	7,822.83	7,751.04	71.78	108.980	
3,400.00	3,171.71	3,131.71	3,131.71	20.67	53.74	84.69	-5,559.47	5,714.17	7,816.60	7,742.29	74.30	105.197	
3,500.00	3,255.41	3,215.41	3,215.41	21.73	55.20	85.02	-5,559.47	5,714.17	7,810.74	7,733.91	76.83	101.659	
3,600.00	3,339.10	3,300.90	3,299.10	22.80	56.70	85.36	-5,559.47	5,714.17	7,805.27	7,725.87	79.40	98.306	
3,700.00	3,422.80	3,382.80	3,382.80	23.87	58.12	85.69	-5,559.47	5,714.17	7,800.18	7,718.27	81.90	95.235	
3,800.00	3,506.50	3,466.50	3,466.50	24.94	59.59	86.03	-5,559.47	5,714.17	7,795.47	7,711.02	84.45	92.312	
3,900.00	3,590.20	3,550.20	3,550.20	26.02	61.05	86.37	-5,559.47	5,714.17	7,791.14	7,704.14	86.99	89.561	
4,000.00	3,673.89	3,633.89	3,633.89	27.10	62.51	86.70	-5,559.47	5,714.17	7,787.19	7,697.65	89.54	86.968	
4,100.00	3,757.59	3,717.59	3,717.59	28.18	63.97	87.04	-5,559.47	5,714.17	7,783.62	7,691.53	92.09	84.521	
4,200.00	3,841.29	3,801.29	3,801.29	29.26	65.43	87.38	-5,559.47	5,714.17	7,780.44	7,685.80	94.64	82.207	
4,300.00	3,924.99	3,884.99	3,884.99	30.35	66.89	87.71	-5,559.47	5,714.17	7,777.64	7,680.44	97.20	80.018	
4,400.00	4,008.68	3,968.68	3,968.68	31.44	68.35	88.05	-5,559.47	5,714.17	7,775.23	7,675.47	99.75	77.944	
4,500.00	4,092.38	4,052.38	4,052.38	32.52	69.81	88.39	-5,559.47	5,714.17	7,773.20	7,670.89	102.31	75.976	
4,600.00	4,176.08	4,136.08	4,136.08	33.62	71.27	88.73	-5,559.47	5,714.17	7,771.55	7,666.69	104.87	74.107	
4,700.00	4,259.77	4,219.77	4,219.77	34.71	72.73	89.06	-5,559.47	5,714.17	7,770.30	7,662.87	107.43	72.331	
4,800.00	4,343.47	4,303.47	4,303.47	35.80	74.19	89.40	-5,559.47	5,714.17	7,769.42	7,659.44	109.99	70.641	
4,900.00	4,427.17	4,387.17	4,387.17	36.89	75.65	89.74	-5,559.47	5,714.17	7,768.93	7,656.39	112.54	69.031	
4,976.84	4,491.48	4,451.48	4,451.48	37.73	76.78	90.00	-5,559.47	5,714.17	7,768.82	7,654.31	114.51	67.845	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,510.87	4,470.87	4,470.87	37.99	77.12	90.08	-5,559.47	5,714.17	7,768.83	7,653.73	115.10	67.496	
5,100.00	4,594.56	4,554.56	4,554.56	39.08	78.58	90.42	-5,559.47	5,714.17	7,769.11	7,651.45	117.66	66.031	
5,200.00	4,678.26	4,638.26	4,638.26	40.18	80.04	90.75	-5,559.47	5,714.17	7,769.78	7,649.56	120.22	64.632	
5,300.00	4,761.96	4,721.96	4,721.96	41.28	81.50	91.09	-5,559.47	5,714.17	7,770.83	7,648.06	122.77	63.295	
5,400.00	4,845.66	4,805.66	4,805.66	42.37	82.96	91.43	-5,559.47	5,714.17	7,772.27	7,646.94	125.33	62.016	
5,500.00	4,929.35	4,889.35	4,889.35	43.47	84.42	91.77	-5,559.47	5,714.17	7,774.09	7,646.21	127.88	60.792	
5,600.00	5,013.05	4,973.05	4,973.05	44.57	85.88	92.10	-5,559.47	5,714.17	7,776.30	7,645.87	130.43	59.620	
5,700.00	5,096.75	5,056.75	5,056.75	45.67	87.34	92.44	-5,559.47	5,714.17	7,778.89	7,645.91	132.98	58.496	
5,800.00	5,180.45	5,140.45	5,140.45	46.77	88.80	92.78	-5,559.47	5,714.17	7,781.87	7,646.34	135.53	57.418	
5,900.00	5,264.14	5,224.14	5,224.14	47.87	90.26	93.12	-5,559.47	5,714.17	7,785.23	7,647.15	138.08	56.383	
6,000.00	5,347.84	5,307.84	5,307.84	48.97	91.72	93.45	-5,559.47	5,714.17	7,788.97	7,648.35	140.62	55.389	
6,100.00	5,431.54	5,391.54	5,391.54	50.07	93.18	93.79	-5,559.47	5,714.17	7,793.09	7,649.93	143.16	54.435	
6,200.00	5,515.23	5,425.00	5,425.00	51.17	93.77	93.92	-5,559.47	5,714.17	7,797.76	7,652.94	144.82	53.844	
6,300.00	5,598.93	5,425.00	5,425.00	52.27	93.77	93.92	-5,559.47	5,714.17	7,803.64	7,657.77	145.87	53.497	
6,400.00	5,682.63	5,425.00	5,425.00	53.38	93.77	93.92	-5,559.47	5,714.17	7,810.79	7,663.89	146.90	53.170	
6,500.00	5,766.33	5,425.00	5,425.00	54.48	93.77	93.92	-5,559.47	5,714.17	7,819.22	7,671.30	147.91	52.864	
6,600.00	5,850.02	5,425.00	5,425.00	55.58	93.77	93.92	-5,559.47	5,714.17	7,828.91	7,680.01	148.90	52.577	
6,700.00	5,933.72	5,425.00	5,425.00	56.68	93.77	93.92	-5,559.47	5,714.17	7,839.86	7,689.99	149.87	52.311	
6,800.00	6,017.42	5,425.00	5,425.00	57.79	93.77	93.92	-5,559.47	5,714.17	7,852.08	7,701.26	150.82	52.063	
6,900.00	6,101.12	5,425.00	5,425.00	58.89	93.77	93.92	-5,559.47	5,714.17	7,865.55	7,713.80	151.74	51.834	
7,000.00	6,184.81	5,425.00	5,425.00	59.99	93.77	93.92	-5,559.47	5,714.17	7,880.26	7,727.61	152.65	51.624	
7,100.00	6,268.51	5,425.00	5,425.00	61.10	93.77	93.92	-5,559.47	5,714.17	7,896.21	7,742.68	153.53	51.431	
7,200.00	6,352.21	5,425.00	5,425.00	62.20	93.77	93.92	-5,559.47	5,714.17	7,913.39	7,759.01	154.39	51.256	
7,300.00	6,435.90	5,425.00	5,425.00	63.31	93.77	93.92	-5,559.47	5,714.17	7,931.80	7,776.58	155.23	51.098	
7,400.00	6,519.60	5,425.00	5,425.00	64.41	93.77	93.92	-5,559.47	5,714.17	7,951.42	7,795.38	156.04	50.957	
7,500.00	6,603.30	5,425.00	5,425.00	65.51	93.77	93.92	-5,559.47	5,714.17	7,972.25	7,815.42	156.83	50.832	
7,600.00	6,687.00	5,425.00	5,425.00	66.62	93.77	93.92	-5,559.47	5,714.17	7,994.28	7,836.67	157.60	50.724	
7,700.00	6,770.69	5,425.00	5,425.00	67.72	93.77	93.92	-5,559.47	5,714.17	8,017.49	7,859.14	158.35	50.631	
7,800.00	6,854.39	5,425.00	5,425.00	68.83	93.77	93.92	-5,559.47	5,714.17	8,041.88	7,882.80	159.08	50.553	
7,900.00	6,938.09	5,425.00	5,425.00	69.93	93.77	93.92	-5,559.47	5,714.17	8,067.44	7,907.65	159.78	50.490	
7,933.18	6,965.86	5,425.00	5,425.00	70.30	93.77	93.92	-5,559.47	5,714.17	8,076.17	7,916.16	160.01	50.473	
7,950.00	6,980.00	5,425.00	5,425.00	70.49	93.77	91.79	-5,559.47	5,714.17	8,080.43	7,920.31	160.12	50.464	
8,000.00	7,022.68	5,425.00	5,425.00	71.01	93.77	84.65	-5,559.47	5,714.17	8,090.70	7,930.25	160.45	50.426	
8,050.00	7,066.06	5,425.00	5,425.00	71.51	93.77	76.48	-5,559.47	5,714.17	8,097.34	7,936.60	160.74	50.375	
8,100.00	7,109.82	5,425.00	5,425.00	71.97	93.77	67.60	-5,559.47	5,714.17	8,100.32	7,939.32	161.00	50.312	
8,150.00	7,153.63	5,425.00	5,425.00	72.38	93.77	58.51	-5,559.47	5,714.17	8,099.61	7,938.38	161.23	50.238	
8,200.00	7,197.14	5,425.00	5,425.00	72.74	93.77	49.71	-5,559.47	5,714.17	8,095.21	7,933.80	161.41	50.154	
8,250.00	7,240.04	5,425.00	5,425.00	73.05	93.77	41.55	-5,559.47	5,714.17	8,087.16	7,925.62	161.55	50.061	
8,300.00	7,281.99	5,425.00	5,425.00	73.31	93.77	34.24	-5,559.47	5,714.17	8,075.51	7,913.87	161.64	49.959	
8,350.00	7,322.67	5,425.00	5,425.00	73.52	93.77	27.76	-5,559.47	5,714.17	8,060.32	7,898.63	161.70	49.849	
8,400.00	7,361.77	5,425.00	5,425.00	73.68	93.77	22.04	-5,559.47	5,714.17	8,041.70	7,880.00	161.71	49.730	
8,450.00	7,399.01	5,425.00	5,425.00	73.78	93.77	16.91	-5,559.47	5,714.17	8,019.77	7,858.09	161.68	49.604	
8,500.00	7,434.08	5,425.00	5,425.00	73.85	93.77	12.22	-5,559.47	5,714.17	7,994.65	7,833.04	161.61	49.469	
8,550.00	7,466.74	5,425.00	5,425.00	73.87	93.77	7.80	-5,559.47	5,714.17	7,966.52	7,805.02	161.51	49.327	
8,600.00	7,496.72	5,425.00	5,425.00	73.85	93.77	3.49	-5,559.47	5,714.17	7,935.56	7,774.19	161.37	49.176	
8,650.00	7,523.80	5,425.00	5,425.00	73.79	93.77	-0.87	-5,559.47	5,714.17	7,901.98	7,740.77	161.21	49.018	
8,700.00	7,547.77	5,425.00	5,425.00	73.70	93.77	-5.45	-5,559.47	5,714.17	7,865.99	7,704.97	161.02	48.852	
8,750.00	7,568.45	5,425.00	5,425.00	73.58	93.77	-10.43	-5,559.47	5,714.17	7,827.84	7,667.03	160.81	48.678	
8,800.00	7,585.69	5,425.00	5,425.00	73.43	93.77	-16.03	-5,559.47	5,714.17	7,787.78	7,627.20	160.58	48.497	
8,850.00	7,599.35	5,425.00	5,425.00	73.26	93.77	-22.46	-5,559.47	5,714.17	7,746.11	7,585.76	160.34	48.309	
8,900.00	7,609.33	5,425.00	5,425.00	73.07	93.77	-29.91	-5,559.47	5,714.17	7,703.10	7,543.01	160.10	48.115	
8,950.00	7,615.55	5,425.00	5,425.00	72.87	93.77	-38.50	-5,559.47	5,714.17	7,659.08	7,499.23	159.85	47.915	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	5,425.00	5,425.00	72.65	93.77	-48.13	-5,559.47	5,714.17	7,614.35	7,454.76	159.60	47.710	
9,006.60	7,618.00	5,425.00	5,425.00	72.62	93.77	-49.46	-5,559.47	5,714.17	7,608.41	7,448.85	159.57	47.682	
9,100.00	7,618.00	5,425.00	5,425.00	72.22	93.77	-49.46	-5,559.47	5,714.17	7,524.44	7,365.34	159.10	47.294	
9,200.00	7,618.00	5,425.00	5,425.00	71.80	93.77	-49.46	-5,559.47	5,714.17	7,434.78	7,276.19	158.59	46.881	
9,300.00	7,618.00	5,425.00	5,425.00	71.41	93.77	-49.46	-5,559.47	5,714.17	7,345.39	7,187.32	158.07	46.469	
9,400.00	7,618.00	5,425.00	5,425.00	71.04	93.77	-49.46	-5,559.47	5,714.17	7,256.28	7,098.73	157.55	46.058	
9,500.00	7,618.00	5,425.00	5,425.00	70.68	93.77	-49.46	-5,559.47	5,714.17	7,167.45	7,010.44	157.01	45.649	
9,600.00	7,618.00	5,425.00	5,425.00	70.35	93.77	-49.46	-5,559.47	5,714.17	7,078.92	6,922.45	156.47	45.242	
9,700.00	7,618.00	5,425.00	5,425.00	70.04	93.77	-49.46	-5,559.47	5,714.17	6,990.70	6,834.78	155.92	44.836	
9,800.00	7,618.00	5,425.00	5,425.00	69.75	93.77	-49.46	-5,559.47	5,714.17	6,902.80	6,747.44	155.36	44.432	
9,900.00	7,618.00	5,425.00	5,425.00	69.47	93.77	-49.46	-5,559.47	5,714.17	6,815.24	6,660.44	154.79	44.029	
10,000.00	7,618.00	5,425.00	5,425.00	69.22	93.77	-49.46	-5,559.47	5,714.17	6,728.02	6,573.80	154.22	43.627	
10,100.00	7,618.00	5,425.00	5,425.00	68.99	93.77	-49.46	-5,559.47	5,714.17	6,641.16	6,487.53	153.63	43.227	
10,200.00	7,618.00	5,425.00	5,425.00	68.78	93.77	-49.46	-5,559.47	5,714.17	6,554.67	6,401.63	153.04	42.829	
10,300.00	7,618.00	5,425.00	5,425.00	68.59	93.77	-49.46	-5,559.47	5,714.17	6,468.58	6,316.13	152.45	42.431	
10,400.00	7,618.00	5,425.00	5,425.00	68.42	93.77	-49.46	-5,559.47	5,714.17	6,382.89	6,231.05	151.85	42.035	
10,500.00	7,618.00	5,425.00	5,425.00	68.28	93.77	-49.46	-5,559.47	5,714.17	6,297.63	6,146.39	151.24	41.640	
10,600.00	7,618.00	5,425.00	5,425.00	68.16	93.77	-49.46	-5,559.47	5,714.17	6,212.80	6,062.17	150.63	41.247	
10,700.00	7,618.00	5,425.00	5,425.00	68.06	93.77	-49.46	-5,559.47	5,714.17	6,128.43	5,978.42	150.01	40.853	
10,800.00	7,618.00	5,425.00	5,425.00	67.99	93.77	-49.46	-5,559.47	5,714.17	6,044.54	5,895.15	149.39	40.461	
10,900.00	7,618.00	5,425.00	5,425.00	67.95	93.77	-49.46	-5,559.47	5,714.17	5,961.14	5,812.37	148.77	40.069	
11,000.00	7,618.00	5,425.00	5,425.00	67.95	93.77	-49.46	-5,559.47	5,714.17	5,878.26	5,730.11	148.15	39.678	
11,100.00	7,618.00	5,425.00	5,425.00	67.97	93.77	-49.46	-5,559.47	5,714.17	5,795.93	5,648.40	147.53	39.287	
11,200.00	7,618.00	5,425.00	5,425.00	68.04	93.77	-49.46	-5,559.47	5,714.17	5,714.15	5,567.24	146.91	38.895	
11,300.00	7,618.00	5,425.00	5,425.00	68.15	93.77	-49.46	-5,559.47	5,714.17	5,632.97	5,486.67	146.30	38.503	
11,400.00	7,618.00	5,425.00	5,425.00	68.30	93.77	-49.46	-5,559.47	5,714.17	5,552.39	5,406.70	145.69	38.110	
11,500.00	7,618.00	5,425.00	5,425.00	68.50	93.77	-49.46	-5,559.47	5,714.17	5,472.46	5,327.37	145.10	37.716	
11,600.00	7,618.00	5,425.00	5,425.00	68.75	93.77	-49.46	-5,559.47	5,714.17	5,393.20	5,248.69	144.51	37.320	
11,700.00	7,618.00	5,425.00	5,425.00	69.06	93.77	-49.46	-5,559.47	5,714.17	5,314.64	5,170.70	143.94	36.923	
11,800.00	7,618.00	5,425.00	5,425.00	69.44	93.77	-49.46	-5,559.47	5,714.17	5,236.81	5,093.42	143.39	36.522	
11,900.00	7,618.00	5,425.00	5,425.00	69.88	93.77	-49.46	-5,559.47	5,714.17	5,159.74	5,016.89	142.85	36.119	
12,000.00	7,618.00	5,425.00	5,425.00	70.39	93.77	-49.46	-5,559.47	5,714.17	5,083.48	4,941.13	142.35	35.712	
12,100.00	7,618.00	5,425.00	5,425.00	70.97	93.77	-49.46	-5,559.47	5,714.17	5,008.04	4,866.18	141.87	35.301	
12,200.00	7,618.00	5,425.00	5,425.00	71.63	93.77	-49.46	-5,559.47	5,714.17	4,933.49	4,792.06	141.42	34.884	
12,300.00	7,618.00	5,425.00	5,425.00	72.35	93.77	-49.46	-5,559.47	5,714.17	4,859.84	4,718.82	141.02	34.463	
12,400.00	7,618.00	5,425.00	5,425.00	73.15	93.77	-49.46	-5,559.47	5,714.17	4,787.15	4,646.50	140.65	34.035	
12,500.00	7,618.00	5,425.00	5,425.00	74.01	93.77	-49.46	-5,559.47	5,714.17	4,715.47	4,575.13	140.34	33.601	
12,600.00	7,618.00	5,425.00	5,425.00	74.93	93.77	-49.46	-5,559.47	5,714.17	4,644.82	4,504.75	140.08	33.159	
12,700.00	7,618.00	5,425.00	5,425.00	75.91	93.77	-49.46	-5,559.47	5,714.17	4,575.28	4,435.40	139.87	32.710	
12,800.00	7,618.00	5,425.00	5,425.00	76.95	93.77	-49.46	-5,559.47	5,714.17	4,506.88	4,367.14	139.74	32.253	
12,900.00	7,618.00	5,425.00	5,425.00	78.04	93.77	-49.46	-5,559.47	5,714.17	4,439.68	4,300.01	139.67	31.787	
13,000.00	7,618.00	5,425.00	5,425.00	79.16	93.77	-49.46	-5,559.47	5,714.17	4,373.73	4,234.05	139.68	31.313	
13,100.00	7,618.00	5,425.00	5,425.00	80.33	93.77	-49.46	-5,559.47	5,714.17	4,309.09	4,169.32	139.77	30.830	
13,200.00	7,618.00	5,425.00	5,425.00	81.54	93.77	-49.46	-5,559.47	5,714.17	4,245.83	4,105.88	139.95	30.339	
13,300.00	7,618.00	5,425.00	5,425.00	82.78	93.77	-49.46	-5,559.47	5,714.17	4,184.00	4,043.78	140.22	29.840	
13,400.00	7,618.00	5,425.00	5,425.00	84.05	93.77	-49.46	-5,559.47	5,714.17	4,123.66	3,983.08	140.58	29.333	
13,500.00	7,618.00	5,425.00	5,425.00	85.35	93.77	-49.46	-5,559.47	5,714.17	4,064.90	3,923.85	141.05	28.819	
13,600.00	7,618.00	5,425.00	5,425.00	86.67	93.77	-49.46	-5,559.47	5,714.17	4,007.76	3,866.14	141.62	28.300	
13,700.00	7,618.00	5,425.00	5,425.00	88.02	93.77	-49.46	-5,559.47	5,714.17	3,952.33	3,810.04	142.30	27.775	
13,800.00	7,618.00	5,425.00	5,425.00	89.38	93.77	-49.46	-5,559.47	5,714.17	3,898.68	3,755.60	143.08	27.248	
13,900.00	7,618.00	5,425.00	5,425.00	90.77	93.77	-49.46	-5,559.47	5,714.17	3,846.88	3,702.90	143.98	26.719	
14,000.00	7,618.00	5,425.00	5,425.00	92.17	93.77	-49.46	-5,559.47	5,714.17	3,797.01	3,652.02	144.98	26.189	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,618.00	5,425.00	5,425.00	93.59	93.77	-49.46	-5,559.47	5,714.17	3,749.14	3,603.04	146.10	25.661	
14,200.00	7,618.00	5,425.00	5,425.00	95.02	93.77	-49.46	-5,559.47	5,714.17	3,703.35	3,556.02	147.33	25.137	
14,300.00	7,618.00	5,425.00	5,425.00	96.47	93.77	-49.46	-5,559.47	5,714.17	3,659.73	3,511.06	148.66	24.618	
14,400.00	7,618.00	5,425.00	5,425.00	97.93	93.77	-49.46	-5,559.47	5,714.17	3,618.34	3,468.24	150.10	24.106	
14,500.00	7,618.00	5,425.00	5,425.00	99.41	93.77	-49.46	-5,559.47	5,714.17	3,579.27	3,427.62	151.64	23.603	
14,600.00	7,618.00	5,425.00	5,425.00	100.89	93.77	-49.46	-5,559.47	5,714.17	3,542.59	3,389.31	153.28	23.112	
14,700.00	7,618.00	5,425.00	5,425.00	102.38	93.77	-49.46	-5,559.47	5,714.17	3,508.37	3,353.36	155.01	22.633	
14,800.00	7,618.00	5,425.00	5,425.00	103.89	93.77	-49.46	-5,559.47	5,714.17	3,476.70	3,319.87	156.83	22.168	
14,900.00	7,618.00	5,425.00	5,425.00	105.40	93.77	-49.46	-5,559.47	5,714.17	3,447.64	3,288.91	158.73	21.720	
15,000.00	7,618.00	5,425.00	5,425.00	106.92	93.77	-49.46	-5,559.47	5,714.17	3,421.26	3,260.55	160.71	21.288	
15,100.00	7,618.00	5,425.00	5,425.00	108.45	93.77	-49.46	-5,559.47	5,714.17	3,397.62	3,234.86	162.75	20.876	
15,200.00	7,618.00	5,425.00	5,425.00	109.99	93.77	-49.46	-5,559.47	5,714.17	3,376.77	3,211.91	164.86	20.483	
15,300.00	7,618.00	5,425.00	5,425.00	111.54	93.77	-49.46	-5,559.47	5,714.17	3,358.77	3,191.75	167.02	20.110	
15,400.00	7,618.00	5,425.00	5,425.00	113.09	93.77	-49.46	-5,559.47	5,714.17	3,343.67	3,174.45	169.22	19.759	
15,500.00	7,618.00	5,425.00	5,425.00	114.65	93.77	-49.46	-5,559.47	5,714.17	3,331.50	3,160.04	171.46	19.430	
15,600.00	7,618.00	5,425.00	5,425.00	116.21	93.77	-49.46	-5,559.47	5,714.17	3,322.30	3,148.58	173.72	19.124	
15,700.00	7,618.00	5,425.00	5,425.00	117.78	93.77	-49.46	-5,559.47	5,714.17	3,316.09	3,140.09	176.00	18.841	
15,800.00	7,618.00	5,425.00	5,425.00	119.36	93.77	-49.46	-5,559.47	5,714.17	3,312.89	3,134.59	178.30	18.581	
15,856.12	7,618.00	5,425.00	5,425.00	120.25	93.77	-49.46	-5,559.47	5,714.17	3,312.41	3,132.83	179.58	18.445	CC
15,900.00	7,618.00	5,425.00	5,425.00	120.94	93.77	-49.46	-5,559.47	5,714.17	3,312.70	3,132.12	180.58	18.344	ES
16,000.00	7,618.00	5,425.00	5,425.00	122.53	93.77	-49.46	-5,559.47	5,714.17	3,315.54	3,132.67	182.86	18.131	
16,100.00	7,618.00	5,425.00	5,425.00	124.12	93.77	-49.46	-5,559.47	5,714.17	3,321.38	3,136.26	185.12	17.941	
16,200.00	7,618.00	5,425.00	5,425.00	125.72	93.77	-49.46	-5,559.47	5,714.17	3,330.22	3,142.86	187.36	17.775	
16,300.00	7,618.00	5,425.00	5,425.00	127.32	93.77	-49.46	-5,559.47	5,714.17	3,342.02	3,152.47	189.55	17.631	
16,400.00	7,618.00	5,425.00	5,425.00	128.93	93.77	-49.46	-5,559.47	5,714.17	3,356.77	3,165.06	191.70	17.510	
16,500.00	7,618.00	5,425.00	5,425.00	130.54	93.77	-49.46	-5,559.47	5,714.17	3,374.41	3,180.61	193.81	17.411	
16,600.00	7,618.00	5,425.00	5,425.00	132.15	93.77	-49.46	-5,559.47	5,714.17	3,394.91	3,199.06	195.85	17.334	
16,700.00	7,618.00	5,425.00	5,425.00	133.77	93.77	-49.46	-5,559.47	5,714.17	3,418.22	3,220.39	197.83	17.278	
16,800.00	7,618.00	5,425.00	5,425.00	135.39	93.77	-49.46	-5,559.47	5,714.17	3,444.27	3,244.52	199.75	17.243	
16,900.00	7,618.00	5,425.00	5,425.00	137.01	93.77	-49.46	-5,559.47	5,714.17	3,473.01	3,271.42	201.59	17.228	SF
17,000.00	7,618.00	5,425.00	5,425.00	138.64	93.77	-49.46	-5,559.47	5,714.17	3,504.36	3,301.01	203.35	17.233	
17,100.00	7,618.00	5,425.00	5,425.00	140.27	93.77	-49.46	-5,559.47	5,714.17	3,538.27	3,333.23	205.04	17.256	
17,200.00	7,618.00	5,425.00	5,425.00	141.91	93.77	-49.46	-5,559.47	5,714.17	3,574.65	3,368.00	206.65	17.298	
17,300.00	7,618.00	5,425.00	5,425.00	143.55	93.77	-49.46	-5,559.47	5,714.17	3,613.43	3,405.26	208.18	17.358	
17,400.00	7,618.00	5,425.00	5,425.00	145.19	93.77	-49.46	-5,559.47	5,714.17	3,654.54	3,444.92	209.62	17.434	
17,500.00	7,618.00	5,425.00	5,425.00	146.83	93.77	-49.46	-5,559.47	5,714.17	3,697.90	3,486.91	210.98	17.527	
17,600.00	7,618.00	5,425.00	5,425.00	148.48	93.77	-49.46	-5,559.47	5,714.17	3,743.42	3,531.15	212.27	17.635	
17,700.00	7,618.00	5,425.00	5,425.00	150.13	93.77	-49.46	-5,559.47	5,714.17	3,791.04	3,577.57	213.47	17.759	
17,800.00	7,618.00	5,425.00	5,425.00	151.78	93.77	-49.46	-5,559.47	5,714.17	3,840.67	3,626.07	214.60	17.897	
17,900.00	7,618.00	5,425.00	5,425.00	153.43	93.77	-49.46	-5,559.47	5,714.17	3,892.24	3,676.59	215.65	18.049	
18,000.00	7,618.00	5,425.00	5,425.00	155.09	93.77	-49.46	-5,559.47	5,714.17	3,945.67	3,729.04	216.63	18.214	
18,100.00	7,618.00	5,425.00	5,425.00	156.75	93.77	-49.46	-5,559.47	5,714.17	4,000.89	3,783.35	217.54	18.392	
18,200.00	7,618.00	5,425.00	5,425.00	158.41	93.77	-49.46	-5,559.47	5,714.17	4,057.82	3,839.44	218.38	18.581	
18,300.00	7,618.00	5,425.00	5,425.00	160.07	93.77	-49.46	-5,559.47	5,714.17	4,116.39	3,897.23	219.16	18.783	
18,400.00	7,618.00	5,425.00	5,425.00	161.74	93.77	-49.46	-5,559.47	5,714.17	4,176.53	3,956.66	219.87	18.995	
18,500.00	7,618.00	5,425.00	5,425.00	163.41	93.77	-49.46	-5,559.47	5,714.17	4,238.18	4,017.66	220.53	19.219	
18,600.00	7,618.00	5,425.00	5,425.00	165.08	93.77	-49.46	-5,559.47	5,714.17	4,301.28	4,080.15	221.13	19.452	
18,700.00	7,618.00	5,425.00	5,425.00	166.75	93.77	-49.46	-5,559.47	5,714.17	4,365.75	4,144.07	221.67	19.694	
18,711.30	7,618.00	5,425.00	5,425.00	166.94	93.77	-49.46	-5,559.47	5,714.17	4,373.12	4,151.39	221.73	19.722	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	133.96	-4,237.38	4,394.55	6,104.81				
100.00	100.00	64.00	64.00	0.13	0.50	133.96	-4,237.38	4,394.55	6,104.71	6,104.07	0.64	9,582.288	
200.00	200.00	164.00	164.00	0.49	1.90	133.96	-4,237.38	4,394.55	6,104.71	6,102.31	2.40	2,548.610	
300.00	300.00	264.00	264.00	0.85	3.65	133.96	-4,237.38	4,394.55	6,104.71	6,100.21	4.50	1,356.870	
400.00	400.00	364.00	364.00	1.21	5.39	133.96	-4,237.38	4,394.55	6,104.71	6,098.10	6.60	924.548	
500.00	500.00	464.00	464.00	1.57	7.14	133.96	-4,237.38	4,394.55	6,104.71	6,096.00	8.71	701.150	
600.00	600.00	564.00	564.00	1.93	8.88	133.96	-4,237.38	4,394.55	6,104.71	6,093.90	10.81	564.701	
700.00	700.00	664.00	664.00	2.29	10.63	133.96	-4,237.38	4,394.55	6,104.71	6,091.79	12.91	472.709	
800.00	800.00	764.00	764.00	2.64	12.37	133.96	-4,237.38	4,394.55	6,104.71	6,089.69	15.02	406.490	
900.00	900.00	864.00	864.00	3.00	14.12	133.96	-4,237.38	4,394.55	6,104.71	6,087.59	17.12	356.543	
1,000.00	999.98	963.98	963.98	3.36	15.86	76.79	-4,237.38	4,394.55	6,104.31	6,085.09	19.22	317.579	
1,100.00	1,099.84	1,063.84	1,063.84	3.71	17.61	76.86	-4,237.38	4,394.55	6,103.11	6,081.80	21.32	286.302	
1,200.00	1,199.45	1,163.45	1,163.45	4.07	19.35	76.98	-4,237.38	4,394.55	6,101.13	6,077.72	23.41	260.582	
1,300.00	1,298.70	1,262.70	1,262.70	4.44	21.08	77.14	-4,237.38	4,394.55	6,098.39	6,072.87	25.51	239.036	
1,400.00	1,397.47	1,361.47	1,361.47	4.82	22.80	77.35	-4,237.38	4,394.55	6,094.89	6,067.27	27.62	220.698	
1,500.00	1,495.62	1,459.62	1,459.62	5.22	24.52	77.61	-4,237.38	4,394.55	6,090.68	6,060.95	29.73	204.875	
1,600.00	1,593.06	1,557.06	1,557.06	5.65	26.22	77.91	-4,237.38	4,394.55	6,085.79	6,053.94	31.85	191.059	
1,700.00	1,689.64	1,653.64	1,653.64	6.11	27.90	78.24	-4,237.38	4,394.55	6,080.26	6,046.27	33.99	178.869	
1,800.00	1,785.27	1,749.27	1,749.27	6.61	29.57	78.62	-4,237.38	4,394.55	6,074.14	6,037.99	36.15	168.018	
1,900.00	1,879.82	1,843.82	1,843.82	7.15	31.22	79.04	-4,237.38	4,394.55	6,067.49	6,029.15	38.33	158.281	
2,000.00	1,973.17	1,937.17	1,937.17	7.73	32.85	79.49	-4,237.38	4,394.55	6,060.36	6,019.81	40.54	149.484	
2,100.00	2,065.21	2,029.21	2,029.21	8.37	34.46	79.98	-4,237.38	4,394.55	6,052.81	6,010.03	42.78	141.491	
2,200.00	2,155.84	2,119.84	2,119.84	9.07	36.04	80.49	-4,237.38	4,394.55	6,044.93	5,999.88	45.05	134.190	
2,300.00	2,244.94	2,208.94	2,208.94	9.82	37.59	81.03	-4,237.38	4,394.55	6,036.77	5,989.42	47.35	127.494	
2,400.00	2,332.39	2,303.61	2,296.39	10.64	39.25	81.60	-4,237.38	4,394.55	6,028.43	5,978.62	49.81	121.023	
2,500.00	2,418.11	2,382.11	2,382.11	11.53	40.62	82.18	-4,237.38	4,394.55	6,019.99	5,967.93	52.06	115.637	
2,558.91	2,467.74	2,431.74	2,431.74	12.08	41.48	82.53	-4,237.38	4,394.55	6,015.00	5,961.52	53.47	112.486	
2,600.00	2,502.13	2,466.13	2,466.13	12.47	42.08	82.71	-4,237.38	4,394.55	6,011.56	5,957.09	54.47	110.373	
2,700.00	2,585.83	2,549.83	2,549.83	13.45	43.54	83.15	-4,237.38	4,394.55	6,003.54	5,946.64	56.90	105.507	
2,800.00	2,669.53	2,633.53	2,633.53	14.44	45.00	83.58	-4,237.38	4,394.55	5,996.01	5,936.65	59.36	101.012	
2,900.00	2,753.22	2,717.22	2,717.22	15.46	46.46	84.02	-4,237.38	4,394.55	5,988.96	5,927.13	61.83	96.856	
3,000.00	2,836.92	2,800.92	2,800.92	16.48	47.93	84.46	-4,237.38	4,394.55	5,982.41	5,918.09	64.32	93.007	
3,100.00	2,920.62	2,884.62	2,884.62	17.52	49.39	84.89	-4,237.38	4,394.55	5,976.36	5,909.53	66.82	89.436	
3,200.00	3,004.32	2,968.32	2,968.32	18.56	50.85	85.33	-4,237.38	4,394.55	5,970.80	5,901.46	69.33	86.118	
3,300.00	3,088.01	3,052.01	3,052.01	19.61	52.31	85.77	-4,237.38	4,394.55	5,965.73	5,893.88	71.85	83.029	
3,400.00	3,171.71	3,135.71	3,135.71	20.67	53.77	86.21	-4,237.38	4,394.55	5,961.17	5,886.79	74.38	80.148	
3,500.00	3,255.41	3,219.41	3,219.41	21.73	55.23	86.65	-4,237.38	4,394.55	5,957.10	5,880.19	76.91	77.458	
3,600.00	3,339.10	3,303.10	3,303.10	22.80	56.69	87.09	-4,237.38	4,394.55	5,953.53	5,874.09	79.44	74.941	
3,700.00	3,422.80	3,386.80	3,386.80	23.87	58.15	87.53	-4,237.38	4,394.55	5,950.47	5,868.49	81.98	72.582	
3,800.00	3,506.50	3,470.50	3,470.50	24.94	59.61	87.97	-4,237.38	4,394.55	5,947.91	5,863.38	84.53	70.368	
3,900.00	3,590.20	3,554.20	3,554.20	26.02	61.07	88.41	-4,237.38	4,394.55	5,945.85	5,858.77	87.07	68.288	
4,000.00	3,673.89	3,637.89	3,637.89	27.10	62.53	88.86	-4,237.38	4,394.55	5,944.29	5,854.67	89.62	66.330	
4,100.00	3,757.59	3,721.59	3,721.59	28.18	63.99	89.30	-4,237.38	4,394.55	5,943.23	5,851.07	92.17	64.485	
4,200.00	3,841.29	3,805.29	3,805.29	29.26	65.45	89.74	-4,237.38	4,394.55	5,942.68	5,847.97	94.71	62.743	
4,259.18	3,890.82	3,854.82	3,854.82	29.91	66.32	90.00	-4,237.38	4,394.55	5,942.60	5,846.37	96.22	61.759	
4,300.00	3,924.99	3,888.99	3,888.99	30.35	66.92	90.18	-4,237.38	4,394.55	5,942.64	5,845.37	97.26	61.098	
4,400.00	4,008.68	3,972.68	3,972.68	31.44	68.38	90.62	-4,237.38	4,394.55	5,943.10	5,843.28	99.81	59.543	
4,500.00	4,092.38	4,056.38	4,056.38	32.52	69.84	91.06	-4,237.38	4,394.55	5,944.06	5,841.70	102.36	58.070	
4,600.00	4,176.08	4,140.08	4,140.08	33.62	71.30	91.50	-4,237.38	4,394.55	5,945.52	5,840.61	104.91	56.673	
4,700.00	4,259.77	4,223.77	4,223.77	34.71	72.76	91.95	-4,237.38	4,394.55	5,947.49	5,840.04	107.46	55.349	
4,800.00	4,343.47	4,307.47	4,307.47	35.80	74.22	92.39	-4,237.38	4,394.55	5,949.96	5,839.96	110.00	54.091	
4,900.00	4,427.17	4,408.83	4,391.17	36.89	75.99	92.83	-4,237.38	4,394.55	5,952.93	5,840.08	112.85	52.750	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,510.87	4,474.87	4,474.87	37.99	77.14	93.27	-4,237.38	4,394.55	5,956.41	5,841.33	115.08	51.757	
5,100.00	4,594.56	4,558.56	4,558.56	39.08	78.60	93.71	-4,237.38	4,394.55	5,960.38	5,842.76	117.62	50.674	
5,200.00	4,678.26	4,642.26	4,642.26	40.18	80.06	94.15	-4,237.38	4,394.55	5,964.86	5,844.70	120.16	49.642	
5,300.00	4,761.96	4,725.96	4,725.96	41.28	81.52	94.59	-4,237.38	4,394.55	5,969.83	5,847.14	122.69	48.658	
5,400.00	4,845.66	4,809.66	4,809.66	42.37	82.98	95.03	-4,237.38	4,394.55	5,975.30	5,850.08	125.22	47.719	
5,500.00	4,929.35	4,906.65	4,893.35	43.47	84.68	95.46	-4,237.38	4,394.55	5,981.26	5,853.29	127.97	46.738	
5,600.00	5,013.05	4,977.05	4,977.05	44.57	85.91	95.90	-4,237.38	4,394.55	5,987.72	5,857.46	130.26	45.966	
5,700.00	5,096.75	5,060.75	5,060.75	45.67	87.37	96.34	-4,237.38	4,394.55	5,994.68	5,861.90	132.78	45.147	
5,800.00	5,180.45	5,144.45	5,144.45	46.77	88.83	96.77	-4,237.38	4,394.55	6,002.12	5,866.83	135.29	44.364	
5,900.00	5,264.14	5,228.14	5,228.14	47.87	90.29	97.21	-4,237.38	4,394.55	6,010.05	5,872.25	137.80	43.614	
6,000.00	5,347.84	5,311.84	5,311.84	48.97	91.75	97.64	-4,237.38	4,394.55	6,018.47	5,878.17	140.31	42.895	
6,100.00	5,431.54	5,404.46	5,395.54	50.07	93.37	98.08	-4,237.38	4,394.55	6,027.38	5,884.42	142.96	42.161	
6,200.00	5,515.23	5,450.00	5,450.00	51.17	94.16	98.36	-4,237.38	4,394.55	6,036.83	5,892.05	144.78	41.697	
6,300.00	5,598.93	5,450.00	5,450.00	52.27	94.16	98.36	-4,237.38	4,394.55	6,047.69	5,901.92	145.77	41.488	
6,400.00	5,682.63	5,450.00	5,450.00	53.38	94.16	98.36	-4,237.38	4,394.55	6,060.17	5,913.45	146.72	41.304	
6,500.00	5,766.33	5,450.00	5,450.00	54.48	94.16	98.36	-4,237.38	4,394.55	6,074.27	5,926.63	147.64	41.142	
6,600.00	5,850.02	5,450.00	5,450.00	55.58	94.16	98.36	-4,237.38	4,394.55	6,089.99	5,941.46	148.52	41.003	
6,700.00	5,933.72	5,450.00	5,450.00	56.68	94.16	98.36	-4,237.38	4,394.55	6,107.30	5,957.92	149.37	40.886	
6,800.00	6,017.42	5,450.00	5,450.00	57.79	94.16	98.36	-4,237.38	4,394.55	6,126.19	5,976.00	150.19	40.790	
6,900.00	6,101.12	5,450.00	5,450.00	58.89	94.16	98.36	-4,237.38	4,394.55	6,146.65	5,995.68	150.97	40.715	
7,000.00	6,184.81	5,450.00	5,450.00	59.99	94.16	98.36	-4,237.38	4,394.55	6,168.67	6,016.96	151.71	40.660	
7,100.00	6,268.51	5,450.00	5,450.00	61.10	94.16	98.36	-4,237.38	4,394.55	6,192.22	6,039.80	152.42	40.625	
7,200.00	6,352.21	5,450.00	5,450.00	62.20	94.16	98.36	-4,237.38	4,394.55	6,217.30	6,064.20	153.10	40.610	
7,300.00	6,435.90	5,450.00	5,450.00	63.31	94.16	98.36	-4,237.38	4,394.55	6,243.87	6,090.13	153.74	40.613	
7,400.00	6,519.60	5,450.00	5,450.00	64.41	94.16	98.36	-4,237.38	4,394.55	6,271.93	6,117.58	154.35	40.635	
7,500.00	6,603.30	5,450.00	5,450.00	65.51	94.16	98.36	-4,237.38	4,394.55	6,301.44	6,146.52	154.92	40.674	
7,600.00	6,687.00	5,450.00	5,450.00	66.62	94.16	98.36	-4,237.38	4,394.55	6,332.40	6,176.94	155.47	40.731	
7,700.00	6,770.69	5,450.00	5,450.00	67.72	94.16	98.36	-4,237.38	4,394.55	6,364.78	6,208.80	155.98	40.806	
7,800.00	6,854.39	5,450.00	5,450.00	68.83	94.16	98.36	-4,237.38	4,394.55	6,398.56	6,242.10	156.46	40.896	
7,900.00	6,938.09	5,450.00	5,450.00	69.93	94.16	98.36	-4,237.38	4,394.55	6,433.72	6,276.81	156.91	41.003	
7,933.18	6,965.86	5,450.00	5,450.00	70.30	94.16	98.36	-4,237.38	4,394.55	6,445.69	6,288.64	157.05	41.043	
7,950.00	6,980.00	5,450.00	5,450.00	70.49	94.16	96.25	-4,237.38	4,394.55	6,451.59	6,294.47	157.12	41.062	
8,000.00	7,022.68	5,450.00	5,450.00	71.01	94.16	89.22	-4,237.38	4,394.55	6,466.78	6,309.47	157.31	41.108	
8,050.00	7,066.06	5,450.00	5,450.00	71.51	94.16	81.17	-4,237.38	4,394.55	6,478.37	6,320.89	157.48	41.138	
8,100.00	7,109.82	5,450.00	5,450.00	71.97	94.16	72.44	-4,237.38	4,394.55	6,486.29	6,328.67	157.62	41.153	
8,150.00	7,153.63	5,450.00	5,450.00	72.38	94.16	63.51	-4,237.38	4,394.55	6,490.49	6,332.77	157.72	41.152	
8,200.00	7,197.14	5,450.00	5,450.00	72.74	94.16	54.90	-4,237.38	4,394.55	6,490.94	6,333.15	157.78	41.138	
8,250.00	7,240.04	5,450.00	5,450.00	73.05	94.16	46.97	-4,237.38	4,394.55	6,487.65	6,329.83	157.81	41.110	
8,300.00	7,281.99	5,450.00	5,450.00	73.31	94.16	39.92	-4,237.38	4,394.55	6,480.63	6,322.82	157.80	41.069	
8,350.00	7,322.67	5,450.00	5,450.00	73.52	94.16	33.76	-4,237.38	4,394.55	6,469.92	6,312.17	157.75	41.014	
8,400.00	7,361.77	5,450.00	5,450.00	73.68	94.16	28.40	-4,237.38	4,394.55	6,455.59	6,297.93	157.66	40.946	
8,450.00	7,399.01	5,450.00	5,450.00	73.78	94.16	23.72	-4,237.38	4,394.55	6,437.72	6,280.18	157.54	40.864	
8,500.00	7,434.08	5,450.00	5,450.00	73.85	94.16	19.55	-4,237.38	4,394.55	6,416.43	6,259.04	157.38	40.769	
8,550.00	7,466.74	5,450.00	5,450.00	73.87	94.16	15.75	-4,237.38	4,394.55	6,391.83	6,234.63	157.20	40.660	
8,600.00	7,496.72	5,450.00	5,450.00	73.85	94.16	12.19	-4,237.38	4,394.55	6,364.08	6,207.09	156.99	40.538	
8,650.00	7,523.80	5,450.00	5,450.00	73.79	94.16	8.73	-4,237.38	4,394.55	6,333.35	6,176.59	156.76	40.402	
8,700.00	7,547.77	5,450.00	5,450.00	73.70	94.16	5.23	-4,237.38	4,394.55	6,299.83	6,143.32	156.51	40.252	
8,750.00	7,568.45	5,450.00	5,450.00	73.58	94.16	1.54	-4,237.38	4,394.55	6,263.74	6,107.50	156.24	40.089	
8,800.00	7,585.69	5,450.00	5,450.00	73.43	94.16	-2.53	-4,237.38	4,394.55	6,225.30	6,069.33	155.97	39.913	
8,850.00	7,599.35	5,450.00	5,450.00	73.26	94.16	-7.21	-4,237.38	4,394.55	6,184.78	6,029.08	155.70	39.723	
8,900.00	7,609.33	5,450.00	5,450.00	73.07	94.16	-12.76	-4,237.38	4,394.55	6,142.43	5,987.01	155.42	39.521	
8,950.00	7,615.55	5,450.00	5,450.00	72.87	94.16	-19.56	-4,237.38	4,394.55	6,098.55	5,943.39	155.15	39.306	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	5,450.00	5,450.00	72.65	94.16	-27.98	-4,237.38	4,394.55	6,053.43	5,898.54	154.90	39.081	
9,006.60	7,618.00	5,450.00	5,450.00	72.62	94.16	-29.23	-4,237.38	4,394.55	6,047.40	5,892.54	154.86	39.050	
9,100.00	7,618.00	5,450.00	5,450.00	72.22	94.16	-29.23	-4,237.38	4,394.55	5,962.09	5,807.70	154.39	38.617	
9,200.00	7,618.00	5,450.00	5,450.00	71.80	94.16	-29.23	-4,237.38	4,394.55	5,871.01	5,717.15	153.86	38.157	
9,300.00	7,618.00	5,450.00	5,450.00	71.41	94.16	-29.23	-4,237.38	4,394.55	5,780.23	5,626.91	153.32	37.700	
9,400.00	7,618.00	5,450.00	5,450.00	71.04	94.16	-29.23	-4,237.38	4,394.55	5,689.76	5,536.99	152.77	37.245	
9,500.00	7,618.00	5,450.00	5,450.00	70.68	94.16	-29.23	-4,237.38	4,394.55	5,599.61	5,447.42	152.19	36.793	
9,600.00	7,618.00	5,450.00	5,450.00	70.35	94.16	-29.23	-4,237.38	4,394.55	5,509.81	5,358.21	151.60	36.345	
9,700.00	7,618.00	5,450.00	5,450.00	70.04	94.16	-29.23	-4,237.38	4,394.55	5,420.36	5,269.37	150.98	35.900	
9,800.00	7,618.00	5,450.00	5,450.00	69.75	94.16	-29.23	-4,237.38	4,394.55	5,331.28	5,180.93	150.35	35.459	
9,900.00	7,618.00	5,450.00	5,450.00	69.47	94.16	-29.23	-4,237.38	4,394.55	5,242.60	5,092.90	149.70	35.021	
10,000.00	7,618.00	5,450.00	5,450.00	69.22	94.16	-29.23	-4,237.38	4,394.55	5,154.33	5,005.31	149.02	34.588	
10,100.00	7,618.00	5,450.00	5,450.00	68.99	94.16	-29.23	-4,237.38	4,394.55	5,066.50	4,918.18	148.33	34.158	
10,200.00	7,618.00	5,450.00	5,450.00	68.78	94.16	-29.23	-4,237.38	4,394.55	4,979.13	4,831.52	147.61	33.732	
10,300.00	7,618.00	5,450.00	5,450.00	68.59	94.16	-29.23	-4,237.38	4,394.55	4,892.24	4,745.38	146.87	33.311	
10,400.00	7,618.00	5,450.00	5,450.00	68.42	94.16	-29.23	-4,237.38	4,394.55	4,805.87	4,659.77	146.10	32.894	
10,500.00	7,618.00	5,450.00	5,450.00	68.28	94.16	-29.23	-4,237.38	4,394.55	4,720.03	4,574.72	145.31	32.483	
10,600.00	7,618.00	5,450.00	5,450.00	68.16	94.16	-29.23	-4,237.38	4,394.55	4,634.75	4,490.26	144.49	32.076	
10,700.00	7,618.00	5,450.00	5,450.00	68.06	94.16	-29.23	-4,237.38	4,394.55	4,550.08	4,406.43	143.65	31.674	
10,800.00	7,618.00	5,450.00	5,450.00	67.99	94.16	-29.23	-4,237.38	4,394.55	4,466.04	4,323.25	142.79	31.277	
10,900.00	7,618.00	5,450.00	5,450.00	67.95	94.16	-29.23	-4,237.38	4,394.55	4,382.68	4,240.78	141.90	30.886	
11,000.00	7,618.00	5,450.00	5,450.00	67.95	94.16	-29.23	-4,237.38	4,394.55	4,300.02	4,159.03	140.98	30.500	
11,100.00	7,618.00	5,450.00	5,450.00	67.97	94.16	-29.23	-4,237.38	4,394.55	4,218.11	4,078.07	140.04	30.120	
11,200.00	7,618.00	5,450.00	5,450.00	68.04	94.16	-29.23	-4,237.38	4,394.55	4,137.00	3,997.92	139.07	29.747	
11,300.00	7,618.00	5,450.00	5,450.00	68.15	94.16	-29.23	-4,237.38	4,394.55	4,056.73	3,918.64	138.08	29.379	
11,400.00	7,618.00	5,450.00	5,450.00	68.30	94.16	-29.23	-4,237.38	4,394.55	3,977.35	3,840.28	137.07	29.017	
11,500.00	7,618.00	5,450.00	5,450.00	68.50	94.16	-29.23	-4,237.38	4,394.55	3,898.93	3,762.89	136.04	28.661	
11,600.00	7,618.00	5,450.00	5,450.00	68.75	94.16	-29.23	-4,237.38	4,394.55	3,821.51	3,686.53	134.98	28.311	
11,700.00	7,618.00	5,450.00	5,450.00	69.06	94.16	-29.23	-4,237.38	4,394.55	3,745.16	3,611.25	133.91	27.968	
11,800.00	7,618.00	5,450.00	5,450.00	69.44	94.16	-29.23	-4,237.38	4,394.55	3,669.95	3,537.13	132.82	27.630	
11,900.00	7,618.00	5,450.00	5,450.00	69.88	94.16	-29.23	-4,237.38	4,394.55	3,595.95	3,464.22	131.73	27.299	
12,000.00	7,618.00	5,450.00	5,450.00	70.39	94.16	-29.23	-4,237.38	4,394.55	3,523.23	3,392.60	130.62	26.972	
12,100.00	7,618.00	5,450.00	5,450.00	70.97	94.16	-29.23	-4,237.38	4,394.55	3,451.87	3,322.35	129.52	26.651	
12,200.00	7,618.00	5,450.00	5,450.00	71.63	94.16	-29.23	-4,237.38	4,394.55	3,381.97	3,253.55	128.42	26.335	
12,300.00	7,618.00	5,450.00	5,450.00	72.35	94.16	-29.23	-4,237.38	4,394.55	3,313.61	3,186.27	127.34	26.022	
12,400.00	7,618.00	5,450.00	5,450.00	73.15	94.16	-29.23	-4,237.38	4,394.55	3,246.89	3,120.62	126.27	25.714	
12,500.00	7,618.00	5,450.00	5,450.00	74.01	94.16	-29.23	-4,237.38	4,394.55	3,181.92	3,056.69	125.23	25.408	
12,600.00	7,618.00	5,450.00	5,450.00	74.93	94.16	-29.23	-4,237.38	4,394.55	3,118.80	2,994.56	124.24	25.104	
12,700.00	7,618.00	5,450.00	5,450.00	75.91	94.16	-29.23	-4,237.38	4,394.55	3,057.65	2,934.36	123.29	24.801	
12,800.00	7,618.00	5,450.00	5,450.00	76.95	94.16	-29.23	-4,237.38	4,394.55	2,998.58	2,876.19	122.40	24.499	
12,900.00	7,618.00	5,450.00	5,450.00	78.04	94.16	-29.23	-4,237.38	4,394.55	2,941.74	2,820.16	121.58	24.197	
13,000.00	7,618.00	5,450.00	5,450.00	79.16	94.16	-29.23	-4,237.38	4,394.55	2,887.23	2,766.39	120.84	23.893	
13,100.00	7,618.00	5,450.00	5,450.00	80.33	94.16	-29.23	-4,237.38	4,394.55	2,835.21	2,715.01	120.20	23.588	
13,200.00	7,618.00	5,450.00	5,450.00	81.54	94.16	-29.23	-4,237.38	4,394.55	2,785.80	2,666.14	119.67	23.280	
13,300.00	7,618.00	5,450.00	5,450.00	82.78	94.16	-29.23	-4,237.38	4,394.55	2,739.16	2,619.91	119.25	22.969	
13,400.00	7,618.00	5,450.00	5,450.00	84.05	94.16	-29.23	-4,237.38	4,394.55	2,695.42	2,576.45	118.97	22.656	
13,500.00	7,618.00	5,450.00	5,450.00	85.35	94.16	-29.23	-4,237.38	4,394.55	2,654.73	2,535.89	118.84	22.339	
13,600.00	7,618.00	5,450.00	5,450.00	86.67	94.16	-29.23	-4,237.38	4,394.55	2,617.23	2,498.37	118.86	22.019	
13,700.00	7,618.00	5,450.00	5,450.00	88.02	94.16	-29.23	-4,237.38	4,394.55	2,583.06	2,464.00	119.06	21.696	
13,800.00	7,618.00	5,450.00	5,450.00	89.38	94.16	-29.23	-4,237.38	4,394.55	2,552.35	2,432.92	119.43	21.371	
13,900.00	7,618.00	5,450.00	5,450.00	90.77	94.16	-29.23	-4,237.38	4,394.55	2,525.23	2,405.23	120.00	21.044	
14,000.00	7,618.00	5,450.00	5,450.00	92.17	94.16	-29.23	-4,237.38	4,394.55	2,501.82	2,381.05	120.77	20.715	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,618.00	5,450.00	5,450.00	93.59	94.16	-29.23	-4,237.38	4,394.55	2,482.21	2,360.46	121.76	20.387	
14,200.00	7,618.00	5,450.00	5,450.00	95.02	94.16	-29.23	-4,237.38	4,394.55	2,466.51	2,343.55	122.96	20.059	
14,300.00	7,618.00	5,450.00	5,450.00	96.47	94.16	-29.23	-4,237.38	4,394.55	2,454.79	2,330.39	124.39	19.734	
14,400.00	7,618.00	5,450.00	5,450.00	97.93	94.16	-29.23	-4,237.38	4,394.55	2,447.10	2,321.05	126.05	19.414	
14,500.00	7,618.00	5,450.00	5,450.00	99.41	94.16	-29.23	-4,237.38	4,394.55	2,443.48	2,315.56	127.92	19.102	
14,538.51	7,618.00	5,450.00	5,450.00	99.98	94.16	-29.23	-4,237.38	4,394.55	2,443.17	2,314.48	128.70	18.984	CC
14,600.00	7,618.00	5,450.00	5,450.00	100.89	94.16	-29.23	-4,237.38	4,394.55	2,443.95	2,313.95	130.00	18.800	ES
14,700.00	7,618.00	5,450.00	5,450.00	102.38	94.16	-29.23	-4,237.38	4,394.55	2,448.50	2,316.25	132.26	18.513	
14,800.00	7,618.00	5,450.00	5,450.00	103.89	94.16	-29.23	-4,237.38	4,394.55	2,457.13	2,322.45	134.68	18.244	
14,900.00	7,618.00	5,450.00	5,450.00	105.40	94.16	-29.23	-4,237.38	4,394.55	2,469.77	2,332.54	137.23	17.997	
15,000.00	7,618.00	5,450.00	5,450.00	106.92	94.16	-29.23	-4,237.38	4,394.55	2,486.38	2,346.50	139.88	17.775	
15,100.00	7,618.00	5,450.00	5,450.00	108.45	94.16	-29.23	-4,237.38	4,394.55	2,506.86	2,364.27	142.60	17.580	
15,200.00	7,618.00	5,450.00	5,450.00	109.99	94.16	-29.23	-4,237.38	4,394.55	2,531.14	2,385.80	145.34	17.415	
15,300.00	7,618.00	5,450.00	5,450.00	111.54	94.16	-29.23	-4,237.38	4,394.55	2,559.09	2,411.01	148.09	17.281	
15,400.00	7,618.00	5,450.00	5,450.00	113.09	94.16	-29.23	-4,237.38	4,394.55	2,590.61	2,439.81	150.80	17.179	
15,500.00	7,618.00	5,450.00	5,450.00	114.65	94.16	-29.23	-4,237.38	4,394.55	2,625.56	2,472.10	153.46	17.109	
15,600.00	7,618.00	5,450.00	5,450.00	116.21	94.16	-29.23	-4,237.38	4,394.55	2,663.81	2,507.77	156.04	17.071	
15,700.00	7,618.00	5,450.00	5,450.00	117.78	94.16	-29.23	-4,237.38	4,394.55	2,705.21	2,546.68	158.53	17.064	SF
15,800.00	7,618.00	5,450.00	5,450.00	119.36	94.16	-29.23	-4,237.38	4,394.55	2,749.63	2,588.71	160.91	17.087	
15,900.00	7,618.00	5,450.00	5,450.00	120.94	94.16	-29.23	-4,237.38	4,394.55	2,796.92	2,633.73	163.19	17.139	
16,000.00	7,618.00	5,450.00	5,450.00	122.53	94.16	-29.23	-4,237.38	4,394.55	2,846.94	2,681.60	165.34	17.219	
16,100.00	7,618.00	5,450.00	5,450.00	124.12	94.16	-29.23	-4,237.38	4,394.55	2,899.54	2,732.18	167.36	17.325	
16,200.00	7,618.00	5,450.00	5,450.00	125.72	94.16	-29.23	-4,237.38	4,394.55	2,954.60	2,785.33	169.27	17.455	
16,300.00	7,618.00	5,450.00	5,450.00	127.32	94.16	-29.23	-4,237.38	4,394.55	3,011.97	2,840.92	171.05	17.609	
16,400.00	7,618.00	5,450.00	5,450.00	128.93	94.16	-29.23	-4,237.38	4,394.55	3,071.52	2,898.81	172.71	17.784	
16,500.00	7,618.00	5,450.00	5,450.00	130.54	94.16	-29.23	-4,237.38	4,394.55	3,133.14	2,958.87	174.26	17.979	
16,600.00	7,618.00	5,450.00	5,450.00	132.15	94.16	-29.23	-4,237.38	4,394.55	3,196.69	3,020.99	175.70	18.194	
16,700.00	7,618.00	5,450.00	5,450.00	133.77	94.16	-29.23	-4,237.38	4,394.55	3,262.08	3,085.05	177.03	18.427	
16,800.00	7,618.00	5,450.00	5,450.00	135.39	94.16	-29.23	-4,237.38	4,394.55	3,329.18	3,150.92	178.26	18.676	
16,900.00	7,618.00	5,450.00	5,450.00	137.01	94.16	-29.23	-4,237.38	4,394.55	3,397.90	3,218.50	179.40	18.940	
17,000.00	7,618.00	5,450.00	5,450.00	138.64	94.16	-29.23	-4,237.38	4,394.55	3,468.15	3,287.70	180.45	19.220	
17,100.00	7,618.00	5,450.00	5,450.00	140.27	94.16	-29.23	-4,237.38	4,394.55	3,539.82	3,358.41	181.42	19.512	
17,200.00	7,618.00	5,450.00	5,450.00	141.91	94.16	-29.23	-4,237.38	4,394.55	3,612.84	3,430.54	182.31	19.818	
17,300.00	7,618.00	5,450.00	5,450.00	143.55	94.16	-29.23	-4,237.38	4,394.55	3,687.13	3,504.01	183.12	20.135	
17,400.00	7,618.00	5,450.00	5,450.00	145.19	94.16	-29.23	-4,237.38	4,394.55	3,762.61	3,578.73	183.88	20.463	
17,500.00	7,618.00	5,450.00	5,450.00	146.83	94.16	-29.23	-4,237.38	4,394.55	3,839.21	3,654.64	184.57	20.801	
17,600.00	7,618.00	5,450.00	5,450.00	148.48	94.16	-29.23	-4,237.38	4,394.55	3,916.86	3,731.66	185.20	21.149	
17,700.00	7,618.00	5,450.00	5,450.00	150.13	94.16	-29.23	-4,237.38	4,394.55	3,995.51	3,809.73	185.78	21.507	
17,800.00	7,618.00	5,450.00	5,450.00	151.78	94.16	-29.23	-4,237.38	4,394.55	4,075.10	3,888.78	186.31	21.872	
17,900.00	7,618.00	5,450.00	5,450.00	153.43	94.16	-29.23	-4,237.38	4,394.55	4,155.57	3,968.76	186.80	22.246	
18,000.00	7,618.00	5,450.00	5,450.00	155.09	94.16	-29.23	-4,237.38	4,394.55	4,236.86	4,049.61	187.25	22.627	
18,100.00	7,618.00	5,450.00	5,450.00	156.75	94.16	-29.23	-4,237.38	4,394.55	4,318.95	4,131.29	187.66	23.015	
18,200.00	7,618.00	5,450.00	5,450.00	158.41	94.16	-29.23	-4,237.38	4,394.55	4,401.77	4,213.74	188.04	23.409	
18,300.00	7,618.00	5,450.00	5,450.00	160.07	94.16	-29.23	-4,237.38	4,394.55	4,485.30	4,296.92	188.38	23.810	
18,400.00	7,618.00	5,450.00	5,450.00	161.74	94.16	-29.23	-4,237.38	4,394.55	4,569.49	4,380.79	188.69	24.216	
18,500.00	7,618.00	5,450.00	5,450.00	163.41	94.16	-29.23	-4,237.38	4,394.55	4,654.30	4,465.32	188.98	24.628	
18,600.00	7,618.00	5,450.00	5,450.00	165.08	94.16	-29.23	-4,237.38	4,394.55	4,739.71	4,550.46	189.24	25.046	
18,700.00	7,618.00	5,450.00	5,450.00	166.75	94.16	-29.23	-4,237.38	4,394.55	4,825.67	4,636.19	189.48	25.468	
18,711.30	7,618.00	5,450.00	5,450.00	166.94	94.16	-29.23	-4,237.38	4,394.55	4,835.42	4,645.91	189.51	25.515	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	141.67	-5,559.74	4,394.79	7,087.04				
100.00	100.00	65.00	65.00	0.13	0.51	141.67	-5,559.74	4,394.79	7,086.95	7,086.31	0.64	N/A	
200.00	200.00	165.00	165.00	0.49	1.92	141.67	-5,559.74	4,394.79	7,086.95	7,084.54	2.41	2,937.278	
300.00	300.00	265.00	265.00	0.85	3.67	141.67	-5,559.74	4,394.79	7,086.95	7,082.44	4.52	1,569.103	
400.00	400.00	365.00	365.00	1.21	5.41	141.67	-5,559.74	4,394.79	7,086.95	7,080.33	6.62	1,070.478	
500.00	500.00	465.00	465.00	1.57	7.16	141.67	-5,559.74	4,394.79	7,086.95	7,078.23	8.72	812.336	
600.00	600.00	565.00	565.00	1.93	8.90	141.67	-5,559.74	4,394.79	7,086.95	7,076.12	10.83	654.504	
700.00	700.00	665.00	665.00	2.29	10.65	141.67	-5,559.74	4,394.79	7,086.95	7,074.02	12.93	548.027	
800.00	800.00	765.00	765.00	2.64	12.39	141.67	-5,559.74	4,394.79	7,086.95	7,071.92	15.04	471.346	
900.00	900.00	865.00	865.00	3.00	14.14	141.67	-5,559.74	4,394.79	7,086.95	7,069.81	17.14	413.490	
1,000.00	999.98	964.98	964.98	3.36	15.88	84.50	-5,559.74	4,394.79	7,086.78	7,067.55	19.24	368.356	
1,100.00	1,099.84	1,064.84	1,064.84	3.71	17.62	84.55	-5,559.74	4,394.79	7,086.28	7,064.95	21.33	332.146	
1,200.00	1,199.45	1,164.45	1,164.45	4.07	19.36	84.64	-5,559.74	4,394.79	7,085.46	7,062.03	23.43	302.386	
1,300.00	1,298.70	1,263.70	1,263.70	4.44	21.10	84.76	-5,559.74	4,394.79	7,084.33	7,058.79	25.53	277.470	
1,400.00	1,397.47	1,362.47	1,362.47	4.82	22.82	84.91	-5,559.74	4,394.79	7,082.90	7,055.26	27.64	256.278	
1,500.00	1,495.62	1,460.62	1,460.62	5.22	24.53	85.10	-5,559.74	4,394.79	7,081.21	7,051.46	29.75	238.004	
1,600.00	1,593.06	1,558.06	1,558.06	5.65	26.23	85.31	-5,559.74	4,394.79	7,079.28	7,047.40	31.88	222.059	
1,700.00	1,689.64	1,654.64	1,654.64	6.11	27.92	85.56	-5,559.74	4,394.79	7,077.15	7,043.12	34.02	208.002	
1,800.00	1,785.27	1,750.27	1,750.27	6.61	29.59	85.83	-5,559.74	4,394.79	7,074.85	7,038.66	36.19	195.497	
1,900.00	1,879.82	1,844.82	1,844.82	7.15	31.24	86.13	-5,559.74	4,394.79	7,072.44	7,034.06	38.38	184.286	
2,000.00	1,973.17	1,938.17	1,938.17	7.73	32.87	86.45	-5,559.74	4,394.79	7,069.95	7,029.36	40.59	174.168	
2,100.00	2,065.21	2,030.21	2,030.21	8.37	34.47	86.79	-5,559.74	4,394.79	7,067.45	7,024.61	42.84	164.982	
2,200.00	2,155.84	2,120.84	2,120.84	9.07	36.06	87.15	-5,559.74	4,394.79	7,064.98	7,019.87	45.11	156.601	
2,300.00	2,244.94	2,209.94	2,209.94	9.82	37.61	87.52	-5,559.74	4,394.79	7,062.61	7,015.19	47.42	148.922	
2,400.00	2,332.39	2,302.61	2,297.39	10.64	39.23	87.91	-5,559.74	4,394.79	7,060.40	7,010.54	49.86	141.603	
2,500.00	2,418.11	2,383.11	2,383.11	11.53	40.63	88.31	-5,559.74	4,394.79	7,058.42	7,006.27	52.15	135.349	
2,558.91	2,467.74	2,432.74	2,432.74	12.08	41.50	88.54	-5,559.74	4,394.79	7,057.39	7,003.82	53.57	131.749	
2,600.00	2,502.13	2,467.13	2,467.13	12.47	42.10	88.70	-5,559.74	4,394.79	7,056.74	7,002.18	54.56	129.334	
2,700.00	2,585.83	2,550.83	2,550.83	13.45	43.56	89.07	-5,559.74	4,394.79	7,055.47	6,998.47	57.00	123.775	
2,800.00	2,669.53	2,634.53	2,634.53	14.44	45.02	89.44	-5,559.74	4,394.79	7,054.62	6,995.16	59.46	118.642	
2,900.00	2,753.22	2,718.22	2,718.22	15.46	46.48	89.81	-5,559.74	4,394.79	7,054.19	6,992.26	61.94	113.895	
2,950.21	2,795.25	2,760.25	2,760.25	15.97	47.22	90.00	-5,559.74	4,394.79	7,054.14	6,990.96	63.18	111.644	
3,000.00	2,836.92	2,801.92	2,801.92	16.48	47.94	90.19	-5,559.74	4,394.79	7,054.19	6,989.77	64.42	109.499	
3,100.00	2,920.62	2,885.62	2,885.62	17.52	49.40	90.56	-5,559.74	4,394.79	7,054.62	6,987.70	66.92	105.420	
3,200.00	3,004.32	2,969.32	2,969.32	18.56	50.86	90.93	-5,559.74	4,394.79	7,055.46	6,986.04	69.42	101.630	
3,300.00	3,088.01	3,053.01	3,053.01	19.61	52.33	91.30	-5,559.74	4,394.79	7,056.74	6,984.80	71.93	98.100	
3,400.00	3,171.71	3,136.71	3,136.71	20.67	53.79	91.67	-5,559.74	4,394.79	7,058.43	6,983.98	74.45	94.808	
3,500.00	3,255.41	3,220.41	3,220.41	21.73	55.25	92.04	-5,559.74	4,394.79	7,060.55	6,983.58	76.97	91.731	
3,600.00	3,339.10	3,304.10	3,304.10	22.80	56.71	92.42	-5,559.74	4,394.79	7,063.10	6,983.60	79.49	88.851	
3,700.00	3,422.80	3,387.80	3,387.80	23.87	58.17	92.79	-5,559.74	4,394.79	7,066.06	6,984.04	82.02	86.152	
3,800.00	3,506.50	3,471.50	3,471.50	24.94	59.63	93.16	-5,559.74	4,394.79	7,069.45	6,984.91	84.55	83.617	
3,900.00	3,590.20	3,555.20	3,555.20	26.02	61.09	93.53	-5,559.74	4,394.79	7,073.26	6,986.19	87.07	81.232	
4,000.00	3,673.89	3,638.89	3,638.89	27.10	62.55	93.90	-5,559.74	4,394.79	7,077.49	6,987.89	89.60	78.987	
4,100.00	3,757.59	3,722.59	3,722.59	28.18	64.01	94.27	-5,559.74	4,394.79	7,082.15	6,990.01	92.13	76.869	
4,200.00	3,841.29	3,806.29	3,806.29	29.26	65.47	94.64	-5,559.74	4,394.79	7,087.22	6,992.56	94.66	74.869	
4,300.00	3,924.99	3,889.99	3,889.99	30.35	66.93	95.01	-5,559.74	4,394.79	7,092.71	6,995.52	97.19	72.978	
4,400.00	4,008.68	3,973.68	3,973.68	31.44	68.39	95.38	-5,559.74	4,394.79	7,098.62	6,998.90	99.72	71.188	
4,500.00	4,092.38	4,057.38	4,057.38	32.52	69.85	95.75	-5,559.74	4,394.79	7,104.94	7,002.70	102.24	69.491	
4,600.00	4,176.08	4,141.08	4,141.08	33.62	71.32	96.11	-5,559.74	4,394.79	7,111.68	7,006.91	104.77	67.881	
4,700.00	4,259.77	4,224.77	4,224.77	34.71	72.78	96.48	-5,559.74	4,394.79	7,118.84	7,011.55	107.29	66.351	
4,800.00	4,343.47	4,308.47	4,308.47	35.80	74.24	96.85	-5,559.74	4,394.79	7,126.40	7,016.59	109.81	64.897	
4,900.00	4,427.17	4,407.83	4,392.17	36.89	75.97	97.22	-5,559.74	4,394.79	7,134.38	7,021.78	112.60	63.359	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,510.87	4,475.87	4,475.87	37.99	77.16	97.58	-5,559.74	4,394.79	7,142.77	7,027.93	114.84	62.196	
5,100.00	4,594.56	4,559.56	4,559.56	39.08	78.62	97.95	-5,559.74	4,394.79	7,151.57	7,034.21	117.36	60.939	
5,200.00	4,678.26	4,643.26	4,643.26	40.18	80.08	98.31	-5,559.74	4,394.79	7,160.78	7,040.91	119.87	59.740	
5,300.00	4,761.96	4,726.96	4,726.96	41.28	81.54	98.67	-5,559.74	4,394.79	7,170.39	7,048.01	122.37	58.595	
5,400.00	4,845.66	4,810.66	4,810.66	42.37	83.00	99.04	-5,559.74	4,394.79	7,180.40	7,055.53	124.88	57.500	
5,500.00	4,929.35	4,905.65	4,894.35	43.47	84.66	99.40	-5,559.74	4,394.79	7,190.82	7,063.25	127.57	56.366	
5,600.00	5,013.05	4,978.05	4,978.05	44.57	85.92	99.76	-5,559.74	4,394.79	7,201.64	7,071.77	129.87	55.452	
5,700.00	5,096.75	5,061.75	5,061.75	45.67	87.38	100.12	-5,559.74	4,394.79	7,212.86	7,080.49	132.36	54.493	
5,800.00	5,180.45	5,145.45	5,145.45	46.77	88.85	100.48	-5,559.74	4,394.79	7,224.47	7,089.62	134.85	53.573	
5,900.00	5,264.14	5,229.14	5,229.14	47.87	90.31	100.84	-5,559.74	4,394.79	7,236.48	7,099.15	137.34	52.692	
6,000.00	5,347.84	5,312.84	5,312.84	48.97	91.77	101.20	-5,559.74	4,394.79	7,248.89	7,109.07	139.82	51.846	
6,100.00	5,431.54	5,403.46	5,396.54	50.07	93.35	101.56	-5,559.74	4,394.79	7,261.68	7,119.27	142.41	50.990	
6,200.00	5,515.23	5,450.00	5,450.00	51.17	94.16	101.79	-5,559.74	4,394.79	7,274.93	7,130.70	144.23	50.440	
6,300.00	5,598.93	5,450.00	5,450.00	52.27	94.16	101.79	-5,559.74	4,394.79	7,289.33	7,144.13	145.20	50.202	
6,400.00	5,682.63	5,450.00	5,450.00	53.38	94.16	101.79	-5,559.74	4,394.79	7,305.07	7,158.92	146.15	49.985	
6,500.00	5,766.33	5,450.00	5,450.00	54.48	94.16	101.79	-5,559.74	4,394.79	7,322.14	7,175.07	147.07	49.787	
6,600.00	5,850.02	5,450.00	5,450.00	55.58	94.16	101.79	-5,559.74	4,394.79	7,340.53	7,192.57	147.97	49.610	
6,700.00	5,933.72	5,450.00	5,450.00	56.68	94.16	101.79	-5,559.74	4,394.79	7,360.24	7,211.40	148.84	49.451	
6,800.00	6,017.42	5,450.00	5,450.00	57.79	94.16	101.79	-5,559.74	4,394.79	7,381.25	7,231.57	149.69	49.312	
6,900.00	6,101.12	5,450.00	5,450.00	58.89	94.16	101.79	-5,559.74	4,394.79	7,403.55	7,253.04	150.51	49.191	
7,000.00	6,184.81	5,450.00	5,450.00	59.99	94.16	101.79	-5,559.74	4,394.79	7,427.13	7,275.83	151.30	49.087	
7,100.00	6,268.51	5,450.00	5,450.00	61.10	94.16	101.79	-5,559.74	4,394.79	7,451.98	7,299.90	152.08	49.002	
7,200.00	6,352.21	5,450.00	5,450.00	62.20	94.16	101.79	-5,559.74	4,394.79	7,478.08	7,325.26	152.82	48.933	
7,300.00	6,435.90	5,450.00	5,450.00	63.31	94.16	101.79	-5,559.74	4,394.79	7,505.42	7,351.88	153.55	48.881	
7,400.00	6,519.60	5,450.00	5,450.00	64.41	94.16	101.79	-5,559.74	4,394.79	7,534.00	7,379.75	154.24	48.845	
7,500.00	6,603.30	5,450.00	5,450.00	65.51	94.16	101.79	-5,559.74	4,394.79	7,563.78	7,408.87	154.92	48.825	
7,600.00	6,687.00	5,450.00	5,450.00	66.62	94.16	101.79	-5,559.74	4,394.79	7,594.77	7,439.21	155.56	48.821	
7,700.00	6,770.69	5,450.00	5,450.00	67.72	94.16	101.79	-5,559.74	4,394.79	7,626.94	7,470.75	156.19	48.832	
7,800.00	6,854.39	5,450.00	5,450.00	68.83	94.16	101.79	-5,559.74	4,394.79	7,660.28	7,503.49	156.79	48.857	
7,900.00	6,938.09	5,450.00	5,450.00	69.93	94.16	101.79	-5,559.74	4,394.79	7,694.78	7,537.41	157.37	48.897	
7,933.18	6,965.86	5,450.00	5,450.00	70.30	94.16	101.79	-5,559.74	4,394.79	7,706.48	7,548.93	157.55	48.913	
7,950.00	6,980.00	5,450.00	5,450.00	70.49	94.16	99.64	-5,559.74	4,394.79	7,712.24	7,554.59	157.65	48.921	
8,000.00	7,022.68	5,450.00	5,450.00	71.01	94.16	92.51	-5,559.74	4,394.79	7,726.89	7,568.98	157.91	48.931	
8,050.00	7,066.06	5,450.00	5,450.00	71.51	94.16	84.37	-5,559.74	4,394.79	7,737.79	7,579.63	158.16	48.923	
8,100.00	7,109.82	5,450.00	5,450.00	71.97	94.16	75.57	-5,559.74	4,394.79	7,744.89	7,586.50	158.39	48.899	
8,150.00	7,153.63	5,450.00	5,450.00	72.38	94.16	66.60	-5,559.74	4,394.79	7,748.12	7,589.53	158.58	48.858	
8,200.00	7,197.14	5,450.00	5,450.00	72.74	94.16	57.95	-5,559.74	4,394.79	7,747.47	7,588.72	158.75	48.803	
8,250.00	7,240.04	5,450.00	5,450.00	73.05	94.16	50.01	-5,559.74	4,394.79	7,742.95	7,584.07	158.88	48.734	
8,300.00	7,281.99	5,450.00	5,450.00	73.31	94.16	42.95	-5,559.74	4,394.79	7,734.59	7,575.61	158.98	48.651	
8,350.00	7,322.67	5,450.00	5,450.00	73.52	94.16	36.81	-5,559.74	4,394.79	7,722.43	7,563.39	159.04	48.556	
8,400.00	7,361.77	5,450.00	5,450.00	73.68	94.16	31.48	-5,559.74	4,394.79	7,706.55	7,547.48	159.07	48.447	
8,450.00	7,399.01	5,450.00	5,450.00	73.78	94.16	26.83	-5,559.74	4,394.79	7,687.05	7,527.98	159.07	48.326	
8,500.00	7,434.08	5,450.00	5,450.00	73.85	94.16	22.71	-5,559.74	4,394.79	7,664.04	7,505.01	159.03	48.192	
8,550.00	7,466.74	5,450.00	5,450.00	73.87	94.16	18.97	-5,559.74	4,394.79	7,637.68	7,478.72	158.96	48.046	
8,600.00	7,496.72	5,450.00	5,450.00	73.85	94.16	15.48	-5,559.74	4,394.79	7,608.13	7,449.26	158.87	47.888	
8,650.00	7,523.80	5,450.00	5,450.00	73.79	94.16	12.08	-5,559.74	4,394.79	7,575.59	7,416.83	158.76	47.718	
8,700.00	7,547.77	5,450.00	5,450.00	73.70	94.16	8.63	-5,559.74	4,394.79	7,540.25	7,381.62	158.62	47.536	
8,750.00	7,568.45	5,450.00	5,450.00	73.58	94.16	4.96	-5,559.74	4,394.79	7,502.35	7,343.88	158.47	47.342	
8,800.00	7,585.69	5,450.00	5,450.00	73.43	94.16	0.85	-5,559.74	4,394.79	7,462.15	7,303.84	158.31	47.137	
8,850.00	7,599.35	5,450.00	5,450.00	73.26	94.16	-4.00	-5,559.74	4,394.79	7,419.91	7,261.78	158.13	46.922	
8,900.00	7,609.33	5,450.00	5,450.00	73.07	94.16	-9.99	-5,559.74	4,394.79	7,375.92	7,217.97	157.95	46.697	
8,950.00	7,615.55	5,450.00	5,450.00	72.87	94.16	-17.69	-5,559.74	4,394.79	7,330.50	7,172.73	157.77	46.462	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	5,450.00	5,450.00	72.65	94.16	-27.77	-5,559.74	4,394.79	7,283.96	7,126.36	157.59	46.220	
9,006.60	7,618.00	5,450.00	5,450.00	72.62	94.16	-29.32	-5,559.74	4,394.79	7,277.74	7,120.17	157.57	46.187	
9,100.00	7,618.00	5,450.00	5,450.00	72.22	94.16	-29.32	-5,559.74	4,394.79	7,189.85	7,032.61	157.24	45.725	
9,200.00	7,618.00	5,450.00	5,450.00	71.80	94.16	-29.32	-5,559.74	4,394.79	7,095.90	6,939.02	156.88	45.233	
9,300.00	7,618.00	5,450.00	5,450.00	71.41	94.16	-29.32	-5,559.74	4,394.79	7,002.11	6,845.61	156.50	44.742	
9,400.00	7,618.00	5,450.00	5,450.00	71.04	94.16	-29.32	-5,559.74	4,394.79	6,908.50	6,752.39	156.12	44.252	
9,500.00	7,618.00	5,450.00	5,450.00	70.68	94.16	-29.32	-5,559.74	4,394.79	6,815.08	6,659.35	155.73	43.763	
9,600.00	7,618.00	5,450.00	5,450.00	70.35	94.16	-29.32	-5,559.74	4,394.79	6,721.84	6,566.51	155.32	43.277	
9,700.00	7,618.00	5,450.00	5,450.00	70.04	94.16	-29.32	-5,559.74	4,394.79	6,628.79	6,473.89	154.91	42.791	
9,800.00	7,618.00	5,450.00	5,450.00	69.75	94.16	-29.32	-5,559.74	4,394.79	6,535.96	6,381.47	154.49	42.308	
9,900.00	7,618.00	5,450.00	5,450.00	69.47	94.16	-29.32	-5,559.74	4,394.79	6,443.34	6,289.28	154.05	41.826	
10,000.00	7,618.00	5,450.00	5,450.00	69.22	94.16	-29.32	-5,559.74	4,394.79	6,350.94	6,197.33	153.60	41.346	
10,100.00	7,618.00	5,450.00	5,450.00	68.99	94.16	-29.32	-5,559.74	4,394.79	6,258.77	6,105.63	153.15	40.868	
10,200.00	7,618.00	5,450.00	5,450.00	68.78	94.16	-29.32	-5,559.74	4,394.79	6,166.85	6,014.18	152.68	40.392	
10,300.00	7,618.00	5,450.00	5,450.00	68.59	94.16	-29.32	-5,559.74	4,394.79	6,075.19	5,922.99	152.19	39.918	
10,400.00	7,618.00	5,450.00	5,450.00	68.42	94.16	-29.32	-5,559.74	4,394.79	5,983.79	5,832.09	151.70	39.446	
10,500.00	7,618.00	5,450.00	5,450.00	68.28	94.16	-29.32	-5,559.74	4,394.79	5,892.67	5,741.48	151.19	38.975	
10,600.00	7,618.00	5,450.00	5,450.00	68.16	94.16	-29.32	-5,559.74	4,394.79	5,801.84	5,651.17	150.67	38.508	
10,700.00	7,618.00	5,450.00	5,450.00	68.06	94.16	-29.32	-5,559.74	4,394.79	5,711.32	5,561.19	150.13	38.042	
10,800.00	7,618.00	5,450.00	5,450.00	67.99	94.16	-29.32	-5,559.74	4,394.79	5,621.12	5,471.54	149.58	37.579	
10,900.00	7,618.00	5,450.00	5,450.00	67.95	94.16	-29.32	-5,559.74	4,394.79	5,531.26	5,382.24	149.02	37.118	
11,000.00	7,618.00	5,450.00	5,450.00	67.95	94.16	-29.32	-5,559.74	4,394.79	5,441.75	5,293.31	148.44	36.660	
11,100.00	7,618.00	5,450.00	5,450.00	67.97	94.16	-29.32	-5,559.74	4,394.79	5,352.62	5,204.77	147.84	36.204	
11,200.00	7,618.00	5,450.00	5,450.00	68.04	94.16	-29.32	-5,559.74	4,394.79	5,263.87	5,116.63	147.24	35.751	
11,300.00	7,618.00	5,450.00	5,450.00	68.15	94.16	-29.32	-5,559.74	4,394.79	5,175.53	5,028.92	146.61	35.301	
11,400.00	7,618.00	5,450.00	5,450.00	68.30	94.16	-29.32	-5,559.74	4,394.79	5,087.63	4,941.66	145.97	34.853	
11,500.00	7,618.00	5,450.00	5,450.00	68.50	94.16	-29.32	-5,559.74	4,394.79	5,000.18	4,854.86	145.32	34.409	
11,600.00	7,618.00	5,450.00	5,450.00	68.75	94.16	-29.32	-5,559.74	4,394.79	4,913.21	4,768.56	144.65	33.967	
11,700.00	7,618.00	5,450.00	5,450.00	69.06	94.16	-29.32	-5,559.74	4,394.79	4,826.74	4,682.78	143.96	33.528	
11,800.00	7,618.00	5,450.00	5,450.00	69.44	94.16	-29.32	-5,559.74	4,394.79	4,740.81	4,597.55	143.26	33.091	
11,900.00	7,618.00	5,450.00	5,450.00	69.88	94.16	-29.32	-5,559.74	4,394.79	4,655.44	4,512.89	142.55	32.658	
12,000.00	7,618.00	5,450.00	5,450.00	70.39	94.16	-29.32	-5,559.74	4,394.79	4,570.66	4,428.84	141.82	32.228	
12,100.00	7,618.00	5,450.00	5,450.00	70.97	94.16	-29.32	-5,559.74	4,394.79	4,486.51	4,345.43	141.08	31.801	
12,200.00	7,618.00	5,450.00	5,450.00	71.63	94.16	-29.32	-5,559.74	4,394.79	4,403.02	4,262.69	140.33	31.376	
12,300.00	7,618.00	5,450.00	5,450.00	72.35	94.16	-29.32	-5,559.74	4,394.79	4,320.23	4,180.66	139.57	30.954	
12,400.00	7,618.00	5,450.00	5,450.00	73.15	94.16	-29.32	-5,559.74	4,394.79	4,238.19	4,099.39	138.80	30.535	
12,500.00	7,618.00	5,450.00	5,450.00	74.01	94.16	-29.32	-5,559.74	4,394.79	4,156.93	4,018.91	138.02	30.119	
12,600.00	7,618.00	5,450.00	5,450.00	74.93	94.16	-29.32	-5,559.74	4,394.79	4,076.50	3,939.27	137.23	29.705	
12,700.00	7,618.00	5,450.00	5,450.00	75.91	94.16	-29.32	-5,559.74	4,394.79	3,996.96	3,860.52	136.45	29.293	
12,800.00	7,618.00	5,450.00	5,450.00	76.95	94.16	-29.32	-5,559.74	4,394.79	3,918.36	3,782.70	135.66	28.883	
12,900.00	7,618.00	5,450.00	5,450.00	78.04	94.16	-29.32	-5,559.74	4,394.79	3,840.75	3,705.87	134.88	28.475	
13,000.00	7,618.00	5,450.00	5,450.00	79.16	94.16	-29.32	-5,559.74	4,394.79	3,764.20	3,630.09	134.11	28.069	
13,100.00	7,618.00	5,450.00	5,450.00	80.33	94.16	-29.32	-5,559.74	4,394.79	3,688.77	3,555.43	133.34	27.663	
13,200.00	7,618.00	5,450.00	5,450.00	81.54	94.16	-29.32	-5,559.74	4,394.79	3,614.53	3,481.93	132.60	27.259	
13,300.00	7,618.00	5,450.00	5,450.00	82.78	94.16	-29.32	-5,559.74	4,394.79	3,541.56	3,409.69	131.88	26.855	
13,400.00	7,618.00	5,450.00	5,450.00	84.05	94.16	-29.32	-5,559.74	4,394.79	3,469.94	3,338.76	131.19	26.451	
13,500.00	7,618.00	5,450.00	5,450.00	85.35	94.16	-29.32	-5,559.74	4,394.79	3,399.75	3,269.23	130.53	26.047	
13,600.00	7,618.00	5,450.00	5,450.00	86.67	94.16	-29.32	-5,559.74	4,394.79	3,331.09	3,201.18	129.91	25.642	
13,700.00	7,618.00	5,450.00	5,450.00	88.02	94.16	-29.32	-5,559.74	4,394.79	3,264.04	3,134.71	129.34	25.236	
13,800.00	7,618.00	5,450.00	5,450.00	89.38	94.16	-29.32	-5,559.74	4,394.79	3,198.72	3,069.90	128.82	24.830	
13,900.00	7,618.00	5,450.00	5,450.00	90.77	94.16	-29.32	-5,559.74	4,394.79	3,135.23	3,006.85	128.37	24.423	
14,000.00	7,618.00	5,450.00	5,450.00	92.17	94.16	-29.32	-5,559.74	4,394.79	3,073.67	2,945.68	127.99	24.015	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,618.00	5,450.00	5,450.00	93.59	94.16	-29.32	-5,559.74	4,394.79	3,014.18	2,886.50	127.68	23.606	
14,200.00	7,618.00	5,450.00	5,450.00	95.02	94.16	-29.32	-5,559.74	4,394.79	2,956.88	2,829.41	127.46	23.198	
14,300.00	7,618.00	5,450.00	5,450.00	96.47	94.16	-29.32	-5,559.74	4,394.79	2,901.89	2,774.55	127.33	22.790	
14,400.00	7,618.00	5,450.00	5,450.00	97.93	94.16	-29.32	-5,559.74	4,394.79	2,849.35	2,722.04	127.30	22.383	
14,500.00	7,618.00	5,450.00	5,450.00	99.41	94.16	-29.32	-5,559.74	4,394.79	2,799.39	2,672.02	127.37	21.978	
14,600.00	7,618.00	5,450.00	5,450.00	100.89	94.16	-29.32	-5,559.74	4,394.79	2,752.17	2,624.61	127.56	21.576	
14,700.00	7,618.00	5,450.00	5,450.00	102.38	94.16	-29.32	-5,559.74	4,394.79	2,707.81	2,579.96	127.86	21.178	
14,800.00	7,618.00	5,450.00	5,450.00	103.89	94.16	-29.32	-5,559.74	4,394.79	2,666.47	2,538.19	128.28	20.786	
14,900.00	7,618.00	5,450.00	5,450.00	105.40	94.16	-29.32	-5,559.74	4,394.79	2,628.29	2,499.45	128.84	20.400	
15,000.00	7,618.00	5,450.00	5,450.00	106.92	94.16	-29.32	-5,559.74	4,394.79	2,593.40	2,463.88	129.53	20.022	
15,100.00	7,618.00	5,450.00	5,450.00	108.45	94.16	-29.32	-5,559.74	4,394.79	2,561.94	2,431.58	130.36	19.652	
15,200.00	7,618.00	5,450.00	5,450.00	109.99	94.16	-29.32	-5,559.74	4,394.79	2,534.05	2,402.69	131.35	19.292	
15,300.00	7,618.00	5,450.00	5,450.00	111.54	94.16	-29.32	-5,559.74	4,394.79	2,509.82	2,377.32	132.50	18.941	
15,400.00	7,618.00	5,450.00	5,450.00	113.09	94.16	-29.32	-5,559.74	4,394.79	2,489.39	2,355.56	133.82	18.602	
15,500.00	7,618.00	5,450.00	5,450.00	114.65	94.16	-29.32	-5,559.74	4,394.79	2,472.83	2,337.51	135.32	18.274	
15,600.00	7,618.00	5,450.00	5,450.00	116.21	94.16	-29.32	-5,559.74	4,394.79	2,460.22	2,323.23	136.99	17.959	
15,700.00	7,618.00	5,450.00	5,450.00	117.78	94.16	-29.32	-5,559.74	4,394.79	2,451.64	2,312.80	138.84	17.658	
15,800.00	7,618.00	5,450.00	5,450.00	119.36	94.16	-29.32	-5,559.74	4,394.79	2,447.11	2,306.25	140.86	17.373	
15,860.87	7,618.00	5,450.00	5,450.00	120.32	94.16	-29.32	-5,559.74	4,394.79	2,446.35	2,304.19	142.17	17.207	CC
15,900.00	7,618.00	5,450.00	5,450.00	120.94	94.16	-29.32	-5,559.74	4,394.79	2,446.67	2,303.63	143.04	17.105	ES
16,000.00	7,618.00	5,450.00	5,450.00	122.53	94.16	-29.32	-5,559.74	4,394.79	2,450.31	2,304.94	145.37	16.856	
16,100.00	7,618.00	5,450.00	5,450.00	124.12	94.16	-29.32	-5,559.74	4,394.79	2,458.01	2,310.19	147.82	16.628	
16,200.00	7,618.00	5,450.00	5,450.00	125.72	94.16	-29.32	-5,559.74	4,394.79	2,469.75	2,319.37	150.37	16.424	
16,300.00	7,618.00	5,450.00	5,450.00	127.32	94.16	-29.32	-5,559.74	4,394.79	2,485.45	2,332.46	152.99	16.245	
16,400.00	7,618.00	5,450.00	5,450.00	128.93	94.16	-29.32	-5,559.74	4,394.79	2,505.06	2,349.41	155.65	16.094	
16,500.00	7,618.00	5,450.00	5,450.00	130.54	94.16	-29.32	-5,559.74	4,394.79	2,528.47	2,370.15	158.32	15.971	
16,600.00	7,618.00	5,450.00	5,450.00	132.15	94.16	-29.32	-5,559.74	4,394.79	2,555.58	2,394.62	160.96	15.877	
16,700.00	7,618.00	5,450.00	5,450.00	133.77	94.16	-29.32	-5,559.74	4,394.79	2,586.27	2,422.72	163.55	15.813	
16,800.00	7,618.00	5,450.00	5,450.00	135.39	94.16	-29.32	-5,559.74	4,394.79	2,620.42	2,454.35	166.07	15.779	
16,900.00	7,618.00	5,450.00	5,450.00	137.01	94.16	-29.32	-5,559.74	4,394.79	2,657.90	2,489.40	168.51	15.773	SF
17,000.00	7,618.00	5,450.00	5,450.00	138.64	94.16	-29.32	-5,559.74	4,394.79	2,698.57	2,527.73	170.83	15.796	
17,100.00	7,618.00	5,450.00	5,450.00	140.27	94.16	-29.32	-5,559.74	4,394.79	2,742.28	2,569.23	173.05	15.847	
17,200.00	7,618.00	5,450.00	5,450.00	141.91	94.16	-29.32	-5,559.74	4,394.79	2,788.89	2,613.76	175.14	15.924	
17,300.00	7,618.00	5,450.00	5,450.00	143.55	94.16	-29.32	-5,559.74	4,394.79	2,838.27	2,661.16	177.10	16.026	
17,400.00	7,618.00	5,450.00	5,450.00	145.19	94.16	-29.32	-5,559.74	4,394.79	2,890.26	2,711.32	178.94	16.152	
17,500.00	7,618.00	5,450.00	5,450.00	146.83	94.16	-29.32	-5,559.74	4,394.79	2,944.73	2,764.08	180.64	16.301	
17,600.00	7,618.00	5,450.00	5,450.00	148.48	94.16	-29.32	-5,559.74	4,394.79	3,001.54	2,819.31	182.23	16.471	
17,700.00	7,618.00	5,450.00	5,450.00	150.13	94.16	-29.32	-5,559.74	4,394.79	3,060.57	2,876.88	183.69	16.662	
17,800.00	7,618.00	5,450.00	5,450.00	151.78	94.16	-29.32	-5,559.74	4,394.79	3,121.68	2,936.64	185.04	16.871	
17,900.00	7,618.00	5,450.00	5,450.00	153.43	94.16	-29.32	-5,559.74	4,394.79	3,184.76	2,998.49	186.27	17.097	
18,000.00	7,618.00	5,450.00	5,450.00	155.09	94.16	-29.32	-5,559.74	4,394.79	3,249.70	3,062.30	187.40	17.341	
18,100.00	7,618.00	5,450.00	5,450.00	156.75	94.16	-29.32	-5,559.74	4,394.79	3,316.38	3,127.94	188.44	17.600	
18,200.00	7,618.00	5,450.00	5,450.00	158.41	94.16	-29.32	-5,559.74	4,394.79	3,384.70	3,195.32	189.38	17.873	
18,300.00	7,618.00	5,450.00	5,450.00	160.07	94.16	-29.32	-5,559.74	4,394.79	3,454.57	3,264.33	190.23	18.160	
18,400.00	7,618.00	5,450.00	5,450.00	161.74	94.16	-29.32	-5,559.74	4,394.79	3,525.88	3,334.88	191.01	18.459	
18,500.00	7,618.00	5,450.00	5,450.00	163.41	94.16	-29.32	-5,559.74	4,394.79	3,598.57	3,406.86	191.71	18.771	
18,600.00	7,618.00	5,450.00	5,450.00	165.08	94.16	-29.32	-5,559.74	4,394.79	3,672.53	3,480.19	192.34	19.094	
18,700.00	7,618.00	5,450.00	5,450.00	166.75	94.16	-29.32	-5,559.74	4,394.79	3,747.71	3,554.79	192.92	19.427	
18,711.30	7,618.00	5,450.00	5,450.00	166.94	94.16	-29.32	-5,559.74	4,394.79	3,756.28	3,563.30	192.98	19.465	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	126.56	-4,237.11	5,713.59	7,113.52				
100.00	100.00	37.00	37.00	0.13	0.30	126.56	-4,237.11	5,713.59	7,113.24	7,112.81	0.43	N/A	
200.00	200.00	137.00	137.00	0.49	1.45	126.56	-4,237.11	5,713.59	7,113.24	7,111.30	1.94	3,663.743	
300.00	300.00	237.00	237.00	0.85	3.19	126.56	-4,237.11	5,713.59	7,113.24	7,109.20	4.05	1,758.386	
400.00	400.00	337.00	337.00	1.21	4.94	126.56	-4,237.11	5,713.59	7,113.24	7,107.09	6.15	1,156.789	
500.00	500.00	437.00	437.00	1.57	6.68	126.56	-4,237.11	5,713.59	7,113.24	7,104.99	8.25	861.905	
600.00	600.00	537.00	537.00	1.93	8.43	126.56	-4,237.11	5,713.59	7,113.24	7,102.88	10.36	686.823	
700.00	700.00	637.00	637.00	2.29	10.18	126.56	-4,237.11	5,713.59	7,113.24	7,100.78	12.46	570.862	
800.00	800.00	737.00	737.00	2.64	11.92	126.56	-4,237.11	5,713.59	7,113.24	7,098.68	14.56	488.402	
900.00	900.00	837.00	837.00	3.00	13.67	126.56	-4,237.11	5,713.59	7,113.24	7,096.57	16.67	426.757	
1,000.00	999.98	936.98	936.98	3.36	15.41	69.39	-4,237.11	5,713.59	7,112.63	7,093.86	18.77	378.985	
1,100.00	1,099.84	1,036.84	1,036.84	3.71	17.15	69.47	-4,237.11	5,713.59	7,110.78	7,089.92	20.86	340.833	
1,200.00	1,199.45	1,136.45	1,136.45	4.07	18.89	69.59	-4,237.11	5,713.59	7,107.73	7,084.77	22.96	309.586	
1,300.00	1,298.70	1,235.70	1,235.70	4.44	20.62	69.76	-4,237.11	5,713.59	7,103.47	7,078.41	25.06	283.499	
1,400.00	1,397.47	1,334.47	1,334.47	4.82	22.35	69.98	-4,237.11	5,713.59	7,098.02	7,070.86	27.16	261.359	
1,500.00	1,495.62	1,432.62	1,432.62	5.22	24.06	70.25	-4,237.11	5,713.59	7,091.43	7,062.16	29.27	242.304	
1,600.00	1,593.06	1,530.06	1,530.06	5.65	25.76	70.56	-4,237.11	5,713.59	7,083.71	7,052.32	31.39	225.701	
1,700.00	1,689.64	1,626.64	1,626.64	6.11	27.45	70.92	-4,237.11	5,713.59	7,074.90	7,041.38	33.52	211.080	
1,800.00	1,785.27	1,722.27	1,722.27	6.61	29.12	71.32	-4,237.11	5,713.59	7,065.06	7,029.39	35.67	198.085	
1,900.00	1,879.82	1,816.82	1,816.82	7.15	30.77	71.77	-4,237.11	5,713.59	7,054.22	7,016.38	37.84	186.440	
2,000.00	1,973.17	1,910.17	1,910.17	7.73	32.40	72.25	-4,237.11	5,713.59	7,042.45	7,002.42	40.03	175.930	
2,100.00	2,065.21	2,002.21	2,002.21	8.37	34.00	72.78	-4,237.11	5,713.59	7,029.80	6,987.55	42.25	166.387	
2,200.00	2,155.84	2,107.16	2,092.84	9.07	35.83	73.34	-4,237.11	5,713.59	7,016.33	6,971.59	44.75	156.795	
2,300.00	2,244.94	2,181.94	2,181.94	9.82	37.14	73.94	-4,237.11	5,713.59	7,002.13	6,955.35	46.78	149.686	
2,400.00	2,332.39	2,269.39	2,269.39	10.64	38.67	74.56	-4,237.11	5,713.59	6,987.25	6,938.16	49.09	142.330	
2,500.00	2,418.11	2,355.11	2,355.11	11.53	40.16	75.22	-4,237.11	5,713.59	6,971.78	6,920.34	51.44	135.534	
2,558.91	2,467.74	2,404.74	2,404.74	12.08	41.03	75.62	-4,237.11	5,713.59	6,962.42	6,909.58	52.84	131.770	
2,600.00	2,502.13	2,439.13	2,439.13	12.47	41.63	75.77	-4,237.11	5,713.59	6,955.87	6,902.05	53.82	129.244	
2,700.00	2,585.83	2,522.83	2,522.83	13.45	43.09	76.14	-4,237.11	5,713.59	6,940.20	6,883.97	56.23	123.426	
2,800.00	2,669.53	2,606.53	2,606.53	14.44	44.55	76.52	-4,237.11	5,713.59	6,924.92	6,866.26	58.66	118.047	
2,900.00	2,753.22	2,709.78	2,690.22	15.46	46.35	76.89	-4,237.11	5,713.59	6,910.05	6,848.60	61.46	112.439	
3,000.00	2,836.92	2,773.92	2,773.92	16.48	47.47	77.26	-4,237.11	5,713.59	6,895.58	6,832.00	63.58	108.450	
3,100.00	2,920.62	2,857.62	2,857.62	17.52	48.93	77.64	-4,237.11	5,713.59	6,881.52	6,815.45	66.07	104.163	
3,200.00	3,004.32	2,941.32	2,941.32	18.56	50.39	78.02	-4,237.11	5,713.59	6,867.86	6,799.30	68.56	100.174	
3,300.00	3,088.01	3,025.01	3,025.01	19.61	51.85	78.39	-4,237.11	5,713.59	6,854.61	6,783.55	71.06	96.457	
3,400.00	3,171.71	3,108.71	3,108.71	20.67	53.31	78.77	-4,237.11	5,713.59	6,841.77	6,768.20	73.58	92.987	
3,500.00	3,255.41	3,207.59	3,192.41	21.73	55.04	79.15	-4,237.11	5,713.59	6,829.35	6,752.99	76.36	89.431	
3,600.00	3,339.10	3,276.10	3,276.10	22.80	56.24	79.53	-4,237.11	5,713.59	6,817.35	6,738.72	78.63	86.703	
3,700.00	3,422.80	3,359.80	3,359.80	23.87	57.70	79.91	-4,237.11	5,713.59	6,805.76	6,724.60	81.16	83.851	
3,800.00	3,506.50	3,443.50	3,443.50	24.94	59.16	80.30	-4,237.11	5,713.59	6,794.60	6,710.89	83.71	81.172	
3,900.00	3,590.20	3,527.20	3,527.20	26.02	60.62	80.68	-4,237.11	5,713.59	6,783.85	6,697.60	86.25	78.651	
4,000.00	3,673.89	3,610.89	3,610.89	27.10	62.08	81.06	-4,237.11	5,713.59	6,773.54	6,684.73	88.80	76.275	
4,100.00	3,757.59	3,705.41	3,694.59	28.18	63.73	81.45	-4,237.11	5,713.59	6,763.65	6,672.10	91.55	73.880	
4,200.00	3,841.29	3,778.29	3,778.29	29.26	65.00	81.84	-4,237.11	5,713.59	6,754.19	6,660.27	93.92	71.915	
4,300.00	3,924.99	3,861.99	3,861.99	30.35	66.46	82.22	-4,237.11	5,713.59	6,745.16	6,648.68	96.48	69.911	
4,400.00	4,008.68	3,945.68	3,945.68	31.44	67.92	82.61	-4,237.11	5,713.59	6,736.56	6,637.51	99.05	68.014	
4,500.00	4,092.38	4,029.38	4,029.38	32.52	69.38	83.00	-4,237.11	5,713.59	6,728.40	6,626.78	101.61	66.215	
4,600.00	4,176.08	4,113.08	4,113.08	33.62	70.84	83.39	-4,237.11	5,713.59	6,720.67	6,616.48	104.19	64.507	
4,700.00	4,259.77	4,203.23	4,196.77	34.71	72.42	83.78	-4,237.11	5,713.59	6,713.38	6,606.51	106.87	62.818	
4,800.00	4,343.47	4,280.47	4,280.47	35.80	73.77	84.17	-4,237.11	5,713.59	6,706.52	6,597.19	109.33	61.341	
4,900.00	4,427.17	4,364.17	4,364.17	36.89	75.23	84.56	-4,237.11	5,713.59	6,700.11	6,588.21	111.91	59.873	
5,000.00	4,510.87	4,447.87	4,447.87	37.99	76.69	84.95	-4,237.11	5,713.59	6,694.14	6,579.66	114.48	58.473	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,594.56	4,531.56	4,531.56	39.08	78.15	85.34	-4,237.11	5,713.59	6,688.61	6,571.55	117.06	57.139	
5,200.00	4,678.26	4,615.26	4,615.26	40.18	79.61	85.73	-4,237.11	5,713.59	6,683.53	6,563.89	119.64	55.865	
5,300.00	4,761.96	4,701.04	4,698.96	41.28	81.11	86.12	-4,237.11	5,713.59	6,678.89	6,556.64	122.25	54.633	
5,400.00	4,845.66	4,782.66	4,782.66	42.37	82.53	86.51	-4,237.11	5,713.59	6,674.69	6,549.90	124.79	53.487	
5,500.00	4,929.35	4,866.35	4,866.35	43.47	83.99	86.91	-4,237.11	5,713.59	6,670.94	6,543.57	127.37	52.375	
5,600.00	5,013.05	4,950.05	4,950.05	44.57	85.45	87.30	-4,237.11	5,713.59	6,667.64	6,537.70	129.95	51.311	
5,700.00	5,096.75	5,033.75	5,033.75	45.67	86.91	87.69	-4,237.11	5,713.59	6,664.79	6,532.27	132.52	50.292	
5,800.00	5,180.45	5,117.45	5,117.45	46.77	88.37	88.09	-4,237.11	5,713.59	6,662.38	6,527.29	135.10	49.315	
5,900.00	5,264.14	5,201.14	5,201.14	47.87	89.83	88.48	-4,237.11	5,713.59	6,660.43	6,522.75	137.67	48.379	
6,000.00	5,347.84	5,284.84	5,284.84	48.97	91.30	88.88	-4,237.11	5,713.59	6,658.92	6,518.67	140.24	47.481	
6,100.00	5,431.54	5,368.54	5,368.54	50.07	92.76	89.27	-4,237.11	5,713.59	6,657.86	6,515.05	142.81	46.619	
6,181.82	5,500.01	5,400.00	5,400.00	50.97	93.31	89.42	-4,237.11	5,713.59	6,657.43	6,513.16	144.27	46.147	
6,200.00	5,515.23	5,400.00	5,400.00	51.17	93.31	89.42	-4,237.11	5,713.59	6,657.46	6,512.99	144.47	46.083	
6,300.00	5,598.93	5,400.00	5,400.00	52.27	93.31	89.42	-4,237.11	5,713.59	6,658.48	6,512.94	145.54	45.749	
6,400.00	5,682.63	5,400.00	5,400.00	53.38	93.31	89.42	-4,237.11	5,713.59	6,661.01	6,514.41	146.60	45.438	
6,500.00	5,766.33	5,400.00	5,400.00	54.48	93.31	89.42	-4,237.11	5,713.59	6,665.03	6,517.41	147.62	45.149	
6,600.00	5,850.02	5,400.00	5,400.00	55.58	93.31	89.42	-4,237.11	5,713.59	6,670.55	6,521.93	148.62	44.883	
6,700.00	5,933.72	5,400.00	5,400.00	56.68	93.31	89.42	-4,237.11	5,713.59	6,677.57	6,527.98	149.59	44.639	
6,800.00	6,017.42	5,400.00	5,400.00	57.79	93.31	89.42	-4,237.11	5,713.59	6,686.07	6,535.54	150.53	44.415	
6,900.00	6,101.12	5,400.00	5,400.00	58.89	93.31	89.42	-4,237.11	5,713.59	6,696.06	6,544.61	151.45	44.213	
7,000.00	6,184.81	5,400.00	5,400.00	59.99	93.31	89.42	-4,237.11	5,713.59	6,707.52	6,555.18	152.34	44.031	
7,100.00	6,268.51	5,400.00	5,400.00	61.10	93.31	89.42	-4,237.11	5,713.59	6,720.45	6,567.26	153.19	43.869	
7,200.00	6,352.21	5,400.00	5,400.00	62.20	93.31	89.42	-4,237.11	5,713.59	6,734.84	6,580.82	154.02	43.727	
7,300.00	6,435.90	5,400.00	5,400.00	63.31	93.31	89.42	-4,237.11	5,713.59	6,750.68	6,595.87	154.82	43.604	
7,400.00	6,519.60	5,400.00	5,400.00	64.41	93.31	89.42	-4,237.11	5,713.59	6,767.97	6,612.38	155.59	43.500	
7,500.00	6,603.30	5,400.00	5,400.00	65.51	93.31	89.42	-4,237.11	5,713.59	6,786.68	6,630.35	156.33	43.414	
7,600.00	6,687.00	5,400.00	5,400.00	66.62	93.31	89.42	-4,237.11	5,713.59	6,806.81	6,649.77	157.04	43.346	
7,700.00	6,770.69	5,400.00	5,400.00	67.72	93.31	89.42	-4,237.11	5,713.59	6,828.34	6,670.63	157.72	43.295	
7,800.00	6,854.39	5,400.00	5,400.00	68.83	93.31	89.42	-4,237.11	5,713.59	6,851.27	6,692.90	158.37	43.262	
7,900.00	6,938.09	5,400.00	5,400.00	69.93	93.31	89.42	-4,237.11	5,713.59	6,875.58	6,716.59	158.99	43.245	
7,933.18	6,965.86	5,400.00	5,400.00	70.30	93.31	89.42	-4,237.11	5,713.59	6,883.94	6,724.75	159.19	43.244	
7,950.00	6,980.00	5,400.00	5,400.00	70.49	93.31	87.30	-4,237.11	5,713.59	6,888.03	6,728.74	159.29	43.242	
8,000.00	7,022.68	5,400.00	5,400.00	71.01	93.31	80.22	-4,237.11	5,713.59	6,897.93	6,738.37	159.56	43.231	
8,050.00	7,066.06	5,400.00	5,400.00	71.51	93.31	72.08	-4,237.11	5,713.59	6,904.39	6,744.59	159.80	43.208	
8,100.00	7,109.82	5,400.00	5,400.00	71.97	93.31	63.23	-4,237.11	5,713.59	6,907.38	6,747.39	159.99	43.174	
8,150.00	7,153.63	5,400.00	5,400.00	72.38	93.31	54.15	-4,237.11	5,713.59	6,906.88	6,746.74	160.14	43.131	
8,200.00	7,197.14	5,400.00	5,400.00	72.74	93.31	45.33	-4,237.11	5,713.59	6,902.90	6,742.66	160.24	43.079	
8,250.00	7,240.04	5,400.00	5,400.00	73.05	93.31	37.15	-4,237.11	5,713.59	6,895.45	6,735.17	160.29	43.019	
8,300.00	7,281.99	5,400.00	5,400.00	73.31	93.31	29.79	-4,237.11	5,713.59	6,884.59	6,724.30	160.29	42.950	
8,350.00	7,322.67	5,400.00	5,400.00	73.52	93.31	23.26	-4,237.11	5,713.59	6,870.38	6,710.14	160.25	42.874	
8,400.00	7,361.77	5,400.00	5,400.00	73.68	93.31	17.47	-4,237.11	5,713.59	6,852.91	6,692.76	160.15	42.790	
8,450.00	7,399.01	5,400.00	5,400.00	73.78	93.31	12.26	-4,237.11	5,713.59	6,832.29	6,672.27	160.02	42.697	
8,500.00	7,434.08	5,400.00	5,400.00	73.85	93.31	7.48	-4,237.11	5,713.59	6,808.64	6,648.80	159.84	42.596	
8,550.00	7,466.74	5,400.00	5,400.00	73.87	93.31	2.98	-4,237.11	5,713.59	6,782.12	6,622.49	159.63	42.487	
8,600.00	7,496.72	5,400.00	5,400.00	73.85	93.31	-1.41	-4,237.11	5,713.59	6,752.89	6,593.50	159.38	42.369	
8,650.00	7,523.80	5,400.00	5,400.00	73.79	93.31	-5.81	-4,237.11	5,713.59	6,721.14	6,562.03	159.11	42.242	
8,700.00	7,547.77	5,400.00	5,400.00	73.70	93.31	-10.39	-4,237.11	5,713.59	6,687.09	6,528.27	158.81	42.106	
8,750.00	7,568.45	5,400.00	5,400.00	73.58	93.31	-15.27	-4,237.11	5,713.59	6,650.95	6,492.45	158.50	41.962	
8,800.00	7,585.69	5,400.00	5,400.00	73.43	93.31	-20.61	-4,237.11	5,713.59	6,612.97	6,454.80	158.17	41.809	
8,850.00	7,599.35	5,400.00	5,400.00	73.26	93.31	-26.52	-4,237.11	5,713.59	6,573.41	6,415.58	157.83	41.647	
8,900.00	7,609.33	5,400.00	5,400.00	73.07	93.31	-33.11	-4,237.11	5,713.59	6,532.55	6,375.06	157.50	41.478	
8,950.00	7,615.55	5,400.00	5,400.00	72.87	93.31	-40.41	-4,237.11	5,713.59	6,490.67	6,333.51	157.16	41.300	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,617.97	5,400.00	5,400.00	72.65	93.31	-48.30	-4,237.11	5,713.59	6,448.08	6,291.25	156.83	41.115	
9,006.60	7,618.00	5,400.00	5,400.00	72.62	93.31	-49.38	-4,237.11	5,713.59	6,442.42	6,285.63	156.79	41.090	
9,100.00	7,618.00	5,400.00	5,400.00	72.22	93.31	-49.38	-4,237.11	5,713.59	6,362.47	6,206.29	156.18	40.739	
9,200.00	7,618.00	5,400.00	5,400.00	71.80	93.31	-49.38	-4,237.11	5,713.59	6,277.28	6,121.77	155.51	40.366	
9,300.00	7,618.00	5,400.00	5,400.00	71.41	93.31	-49.38	-4,237.11	5,713.59	6,192.54	6,037.71	154.83	39.995	
9,400.00	7,618.00	5,400.00	5,400.00	71.04	93.31	-49.38	-4,237.11	5,713.59	6,108.25	5,954.11	154.14	39.628	
9,500.00	7,618.00	5,400.00	5,400.00	70.68	93.31	-49.38	-4,237.11	5,713.59	6,024.45	5,871.01	153.44	39.263	
9,600.00	7,618.00	5,400.00	5,400.00	70.35	93.31	-49.38	-4,237.11	5,713.59	5,941.15	5,788.43	152.72	38.902	
9,700.00	7,618.00	5,400.00	5,400.00	70.04	93.31	-49.38	-4,237.11	5,713.59	5,858.37	5,706.38	151.99	38.543	
9,800.00	7,618.00	5,400.00	5,400.00	69.75	93.31	-49.38	-4,237.11	5,713.59	5,776.14	5,624.88	151.26	38.188	
9,900.00	7,618.00	5,400.00	5,400.00	69.47	93.31	-49.38	-4,237.11	5,713.59	5,694.47	5,543.96	150.51	37.835	
10,000.00	7,618.00	5,400.00	5,400.00	69.22	93.31	-49.38	-4,237.11	5,713.59	5,613.40	5,463.65	149.75	37.485	
10,100.00	7,618.00	5,400.00	5,400.00	68.99	93.31	-49.38	-4,237.11	5,713.59	5,532.95	5,383.97	148.98	37.139	
10,200.00	7,618.00	5,400.00	5,400.00	68.78	93.31	-49.38	-4,237.11	5,713.59	5,453.14	5,304.93	148.21	36.794	
10,300.00	7,618.00	5,400.00	5,400.00	68.59	93.31	-49.38	-4,237.11	5,713.59	5,374.01	5,226.59	147.42	36.453	
10,400.00	7,618.00	5,400.00	5,400.00	68.42	93.31	-49.38	-4,237.11	5,713.59	5,295.59	5,148.95	146.64	36.113	
10,500.00	7,618.00	5,400.00	5,400.00	68.28	93.31	-49.38	-4,237.11	5,713.59	5,217.90	5,072.05	145.85	35.776	
10,600.00	7,618.00	5,400.00	5,400.00	68.16	93.31	-49.38	-4,237.11	5,713.59	5,140.98	4,995.93	145.06	35.441	
10,700.00	7,618.00	5,400.00	5,400.00	68.06	93.31	-49.38	-4,237.11	5,713.59	5,064.88	4,920.60	144.27	35.107	
10,800.00	7,618.00	5,400.00	5,400.00	67.99	93.31	-49.38	-4,237.11	5,713.59	4,989.61	4,846.12	143.49	34.774	
10,900.00	7,618.00	5,400.00	5,400.00	67.95	93.31	-49.38	-4,237.11	5,713.59	4,915.23	4,772.52	142.71	34.442	
11,000.00	7,618.00	5,400.00	5,400.00	67.95	93.31	-49.38	-4,237.11	5,713.59	4,841.77	4,699.82	141.95	34.110	
11,100.00	7,618.00	5,400.00	5,400.00	67.97	93.31	-49.38	-4,237.11	5,713.59	4,769.27	4,628.08	141.20	33.777	
11,200.00	7,618.00	5,400.00	5,400.00	68.04	93.31	-49.38	-4,237.11	5,713.59	4,697.79	4,557.32	140.47	33.444	
11,300.00	7,618.00	5,400.00	5,400.00	68.15	93.31	-49.38	-4,237.11	5,713.59	4,627.36	4,487.60	139.76	33.109	
11,400.00	7,618.00	5,400.00	5,400.00	68.30	93.31	-49.38	-4,237.11	5,713.59	4,558.04	4,418.95	139.08	32.772	
11,500.00	7,618.00	5,400.00	5,400.00	68.50	93.31	-49.38	-4,237.11	5,713.59	4,489.87	4,351.43	138.44	32.431	
11,600.00	7,618.00	5,400.00	5,400.00	68.75	93.31	-49.38	-4,237.11	5,713.59	4,422.92	4,285.07	137.85	32.086	
11,700.00	7,618.00	5,400.00	5,400.00	69.06	93.31	-49.38	-4,237.11	5,713.59	4,357.23	4,219.93	137.30	31.736	
11,800.00	7,618.00	5,400.00	5,400.00	69.44	93.31	-49.38	-4,237.11	5,713.59	4,292.86	4,156.06	136.80	31.380	
11,900.00	7,618.00	5,400.00	5,400.00	69.88	93.31	-49.38	-4,237.11	5,713.59	4,229.89	4,093.52	136.37	31.018	
12,000.00	7,618.00	5,400.00	5,400.00	70.39	93.31	-49.38	-4,237.11	5,713.59	4,168.35	4,032.35	136.01	30.648	
12,100.00	7,618.00	5,400.00	5,400.00	70.97	93.31	-49.38	-4,237.11	5,713.59	4,108.34	3,972.61	135.72	30.270	
12,200.00	7,618.00	5,400.00	5,400.00	71.63	93.31	-49.38	-4,237.11	5,713.59	4,049.90	3,914.37	135.52	29.883	
12,300.00	7,618.00	5,400.00	5,400.00	72.35	93.31	-49.38	-4,237.11	5,713.59	3,993.11	3,857.69	135.42	29.487	
12,400.00	7,618.00	5,400.00	5,400.00	73.15	93.31	-49.38	-4,237.11	5,713.59	3,938.04	3,802.63	135.41	29.082	
12,500.00	7,618.00	5,400.00	5,400.00	74.01	93.31	-49.38	-4,237.11	5,713.59	3,884.77	3,749.26	135.51	28.668	
12,600.00	7,618.00	5,400.00	5,400.00	74.93	93.31	-49.38	-4,237.11	5,713.59	3,833.36	3,697.64	135.72	28.244	
12,700.00	7,618.00	5,400.00	5,400.00	75.91	93.31	-49.38	-4,237.11	5,713.59	3,783.90	3,647.85	136.05	27.813	
12,800.00	7,618.00	5,400.00	5,400.00	76.95	93.31	-49.38	-4,237.11	5,713.59	3,736.46	3,599.96	136.50	27.374	
12,900.00	7,618.00	5,400.00	5,400.00	78.04	93.31	-49.38	-4,237.11	5,713.59	3,691.12	3,554.05	137.07	26.929	
13,000.00	7,618.00	5,400.00	5,400.00	79.16	93.31	-49.38	-4,237.11	5,713.59	3,647.96	3,510.20	137.77	26.479	
13,100.00	7,618.00	5,400.00	5,400.00	80.33	93.31	-49.38	-4,237.11	5,713.59	3,607.06	3,468.47	138.59	26.027	
13,200.00	7,618.00	5,400.00	5,400.00	81.54	93.31	-49.38	-4,237.11	5,713.59	3,568.49	3,428.95	139.54	25.573	
13,300.00	7,618.00	5,400.00	5,400.00	82.78	93.31	-49.38	-4,237.11	5,713.59	3,532.33	3,391.72	140.62	25.120	
13,400.00	7,618.00	5,400.00	5,400.00	84.05	93.31	-49.38	-4,237.11	5,713.59	3,498.66	3,356.85	141.81	24.671	
13,500.00	7,618.00	5,400.00	5,400.00	85.35	93.31	-49.38	-4,237.11	5,713.59	3,467.55	3,324.42	143.13	24.227	
13,600.00	7,618.00	5,400.00	5,400.00	86.67	93.31	-49.38	-4,237.11	5,713.59	3,439.06	3,294.50	144.55	23.791	
13,700.00	7,618.00	5,400.00	5,400.00	88.02	93.31	-49.38	-4,237.11	5,713.59	3,413.26	3,267.17	146.09	23.364	
13,800.00	7,618.00	5,400.00	5,400.00	89.38	93.31	-49.38	-4,237.11	5,713.59	3,390.22	3,242.50	147.73	22.949	
13,900.00	7,618.00	5,400.00	5,400.00	90.77	93.31	-49.38	-4,237.11	5,713.59	3,369.99	3,220.54	149.46	22.548	
14,000.00	7,618.00	5,400.00	5,400.00	92.17	93.31	-49.38	-4,237.11	5,713.59	3,352.63	3,201.35	151.28	22.162	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,618.00	5,400.00	5,400.00	93.59	93.31	-49.38	-4,237.11	5,713.59	3,338.17	3,185.00	153.17	21.794	
14,200.00	7,618.00	5,400.00	5,400.00	95.02	93.31	-49.38	-4,237.11	5,713.59	3,326.65	3,171.52	155.13	21.444	
14,300.00	7,618.00	5,400.00	5,400.00	96.47	93.31	-49.38	-4,237.11	5,713.59	3,318.11	3,160.96	157.15	21.114	
14,400.00	7,618.00	5,400.00	5,400.00	97.93	93.31	-49.38	-4,237.11	5,713.59	3,312.57	3,153.34	159.22	20.804	
14,500.00	7,618.00	5,400.00	5,400.00	99.41	93.31	-49.38	-4,237.11	5,713.59	3,310.04	3,148.70	161.33	20.517	
14,533.77	7,618.00	5,400.00	5,400.00	99.91	93.31	-49.38	-4,237.11	5,713.59	3,309.86	3,147.81	162.05	20.425	CC
14,600.00	7,618.00	5,400.00	5,400.00	100.89	93.31	-49.38	-4,237.11	5,713.59	3,310.53	3,147.06	163.47	20.251	ES
14,700.00	7,618.00	5,400.00	5,400.00	102.38	93.31	-49.38	-4,237.11	5,713.59	3,314.04	3,148.41	165.63	20.009	
14,800.00	7,618.00	5,400.00	5,400.00	103.89	93.31	-49.38	-4,237.11	5,713.59	3,320.56	3,152.76	167.79	19.789	
14,900.00	7,618.00	5,400.00	5,400.00	105.40	93.31	-49.38	-4,237.11	5,713.59	3,330.07	3,160.11	169.96	19.593	
15,000.00	7,618.00	5,400.00	5,400.00	106.92	93.31	-49.38	-4,237.11	5,713.59	3,342.54	3,170.43	172.11	19.421	
15,100.00	7,618.00	5,400.00	5,400.00	108.45	93.31	-49.38	-4,237.11	5,713.59	3,357.95	3,183.70	174.25	19.271	
15,200.00	7,618.00	5,400.00	5,400.00	109.99	93.31	-49.38	-4,237.11	5,713.59	3,376.25	3,199.90	176.35	19.145	
15,300.00	7,618.00	5,400.00	5,400.00	111.54	93.31	-49.38	-4,237.11	5,713.59	3,397.40	3,218.98	178.42	19.042	
15,400.00	7,618.00	5,400.00	5,400.00	113.09	93.31	-49.38	-4,237.11	5,713.59	3,421.34	3,240.89	180.45	18.960	
15,500.00	7,618.00	5,400.00	5,400.00	114.65	93.31	-49.38	-4,237.11	5,713.59	3,448.02	3,265.59	182.42	18.901	
15,600.00	7,618.00	5,400.00	5,400.00	116.21	93.31	-49.38	-4,237.11	5,713.59	3,477.36	3,293.02	184.34	18.864	
15,700.00	7,618.00	5,400.00	5,400.00	117.78	93.31	-49.38	-4,237.11	5,713.59	3,509.32	3,323.11	186.20	18.847	SF
15,800.00	7,618.00	5,400.00	5,400.00	119.36	93.31	-49.38	-4,237.11	5,713.59	3,543.80	3,355.80	188.00	18.850	
15,900.00	7,618.00	5,400.00	5,400.00	120.94	93.31	-49.38	-4,237.11	5,713.59	3,580.75	3,391.02	189.73	18.873	
16,000.00	7,618.00	5,400.00	5,400.00	122.53	93.31	-49.38	-4,237.11	5,713.59	3,620.09	3,428.70	191.39	18.915	
16,100.00	7,618.00	5,400.00	5,400.00	124.12	93.31	-49.38	-4,237.11	5,713.59	3,661.73	3,468.75	192.98	18.975	
16,200.00	7,618.00	5,400.00	5,400.00	125.72	93.31	-49.38	-4,237.11	5,713.59	3,705.61	3,511.11	194.50	19.052	
16,300.00	7,618.00	5,400.00	5,400.00	127.32	93.31	-49.38	-4,237.11	5,713.59	3,751.64	3,555.69	195.94	19.147	
16,400.00	7,618.00	5,400.00	5,400.00	128.93	93.31	-49.38	-4,237.11	5,713.59	3,799.74	3,602.43	197.32	19.257	
16,500.00	7,618.00	5,400.00	5,400.00	130.54	93.31	-49.38	-4,237.11	5,713.59	3,849.84	3,651.22	198.62	19.383	
16,600.00	7,618.00	5,400.00	5,400.00	132.15	93.31	-49.38	-4,237.11	5,713.59	3,901.86	3,702.01	199.85	19.524	
16,700.00	7,618.00	5,400.00	5,400.00	133.77	93.31	-49.38	-4,237.11	5,713.59	3,955.73	3,754.72	201.01	19.679	
16,800.00	7,618.00	5,400.00	5,400.00	135.39	93.31	-49.38	-4,237.11	5,713.59	4,011.36	3,809.26	202.11	19.848	
16,900.00	7,618.00	5,400.00	5,400.00	137.01	93.31	-49.38	-4,237.11	5,713.59	4,068.69	3,865.56	203.14	20.029	
17,000.00	7,618.00	5,400.00	5,400.00	138.64	93.31	-49.38	-4,237.11	5,713.59	4,127.65	3,923.55	204.10	20.223	
17,100.00	7,618.00	5,400.00	5,400.00	140.27	93.31	-49.38	-4,237.11	5,713.59	4,188.17	3,983.16	205.01	20.429	
17,200.00	7,618.00	5,400.00	5,400.00	141.91	93.31	-49.38	-4,237.11	5,713.59	4,250.18	4,044.32	205.86	20.646	
17,300.00	7,618.00	5,400.00	5,400.00	143.55	93.31	-49.38	-4,237.11	5,713.59	4,313.61	4,106.96	206.65	20.874	
17,400.00	7,618.00	5,400.00	5,400.00	145.19	93.31	-49.38	-4,237.11	5,713.59	4,378.41	4,171.02	207.39	21.112	
17,500.00	7,618.00	5,400.00	5,400.00	146.83	93.31	-49.38	-4,237.11	5,713.59	4,444.52	4,236.44	208.08	21.360	
17,600.00	7,618.00	5,400.00	5,400.00	148.48	93.31	-49.38	-4,237.11	5,713.59	4,511.87	4,303.15	208.72	21.617	
17,700.00	7,618.00	5,400.00	5,400.00	150.13	93.31	-49.38	-4,237.11	5,713.59	4,580.42	4,371.10	209.32	21.882	
17,800.00	7,618.00	5,400.00	5,400.00	151.78	93.31	-49.38	-4,237.11	5,713.59	4,650.11	4,440.23	209.87	22.157	
17,900.00	7,618.00	5,400.00	5,400.00	153.43	93.31	-49.38	-4,237.11	5,713.59	4,720.88	4,510.49	210.39	22.439	
18,000.00	7,618.00	5,400.00	5,400.00	155.09	93.31	-49.38	-4,237.11	5,713.59	4,792.70	4,581.84	210.86	22.729	
18,100.00	7,618.00	5,400.00	5,400.00	156.75	93.31	-49.38	-4,237.11	5,713.59	4,865.51	4,654.21	211.30	23.026	
18,200.00	7,618.00	5,400.00	5,400.00	158.41	93.31	-49.38	-4,237.11	5,713.59	4,939.28	4,727.57	211.71	23.330	
18,300.00	7,618.00	5,400.00	5,400.00	160.07	93.31	-49.38	-4,237.11	5,713.59	5,013.95	4,801.87	212.09	23.641	
18,400.00	7,618.00	5,400.00	5,400.00	161.74	93.31	-49.38	-4,237.11	5,713.59	5,089.50	4,877.06	212.43	23.958	
18,500.00	7,618.00	5,400.00	5,400.00	163.41	93.31	-49.38	-4,237.11	5,713.59	5,165.87	4,953.12	212.75	24.281	
18,600.00	7,618.00	5,400.00	5,400.00	165.08	93.31	-49.38	-4,237.11	5,713.59	5,243.04	5,030.00	213.04	24.610	
18,700.00	7,618.00	5,400.00	5,400.00	166.75	93.31	-49.38	-4,237.11	5,713.59	5,320.97	5,107.66	213.31	24.945	
18,711.30	7,618.00	5,400.00	5,400.00	166.94	93.31	-49.38	-4,237.11	5,713.59	5,329.82	5,116.49	213.34	24.983	

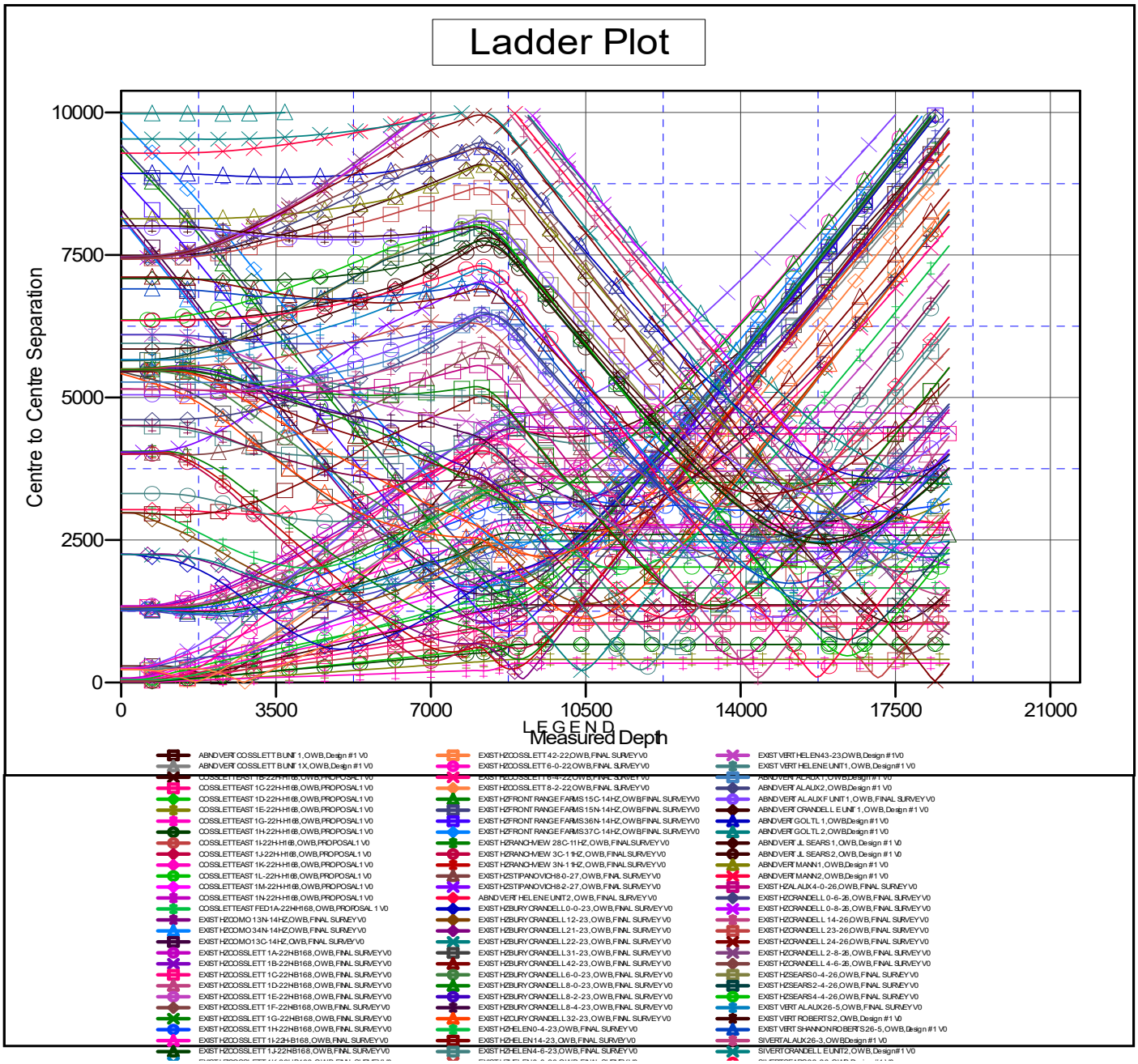
CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

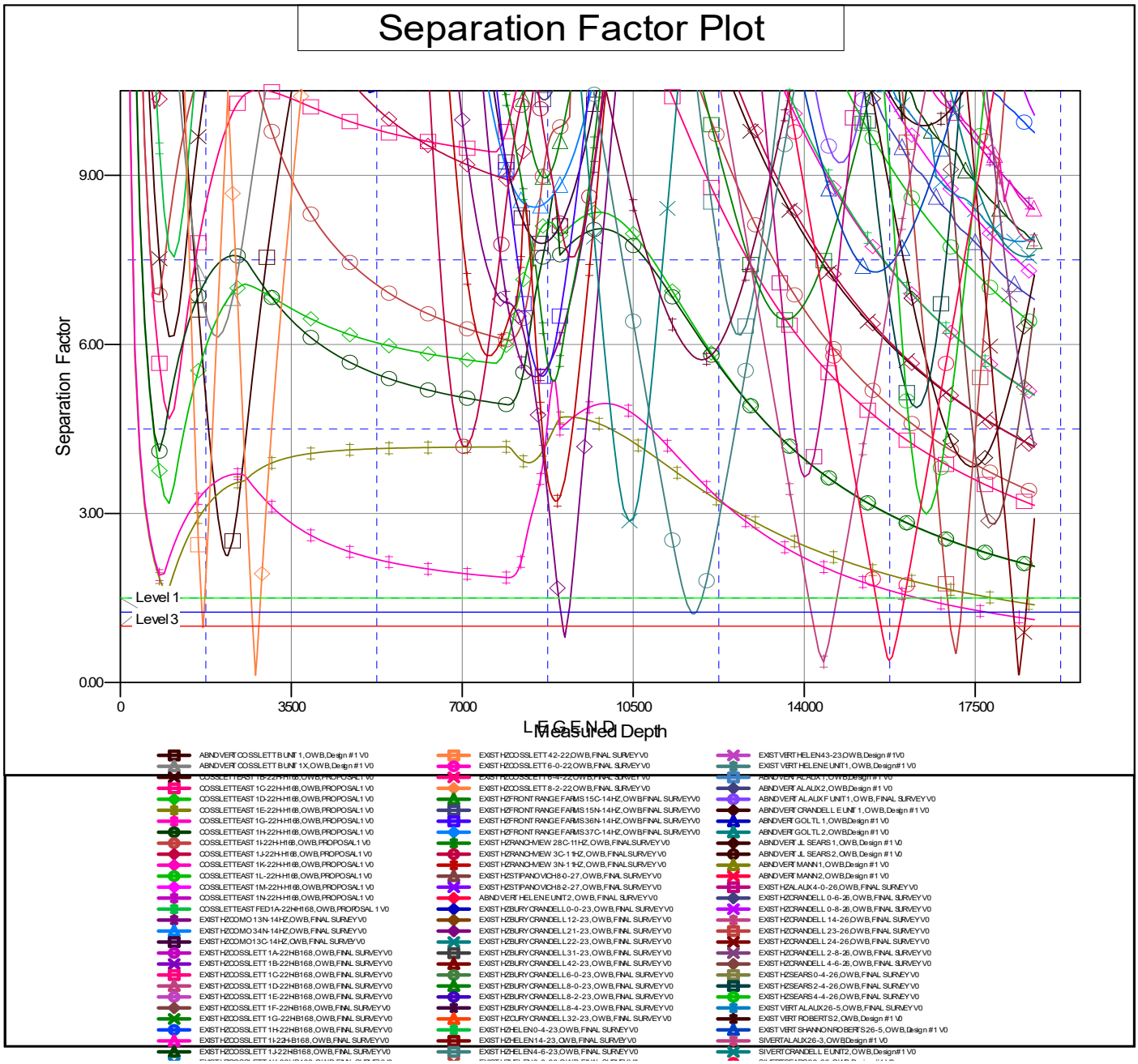
Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 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 Depths are relative to KB 25' @ 5208.00usft
Offset Depths are relative to Offset Datum
Central Meridian is 105.500000°W

Coordinates are relative to: COSSLETT EAST 1F-22H-H168
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.33°



Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1F-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1F-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 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 Depths are relative to KB 25' @ 5208.00usft
Offset Depths are relative to Offset Datum
Central Meridian is 105.500000°W

Coordinates are relative to: COSSLETT EAST 1F-22H-H168
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.33°